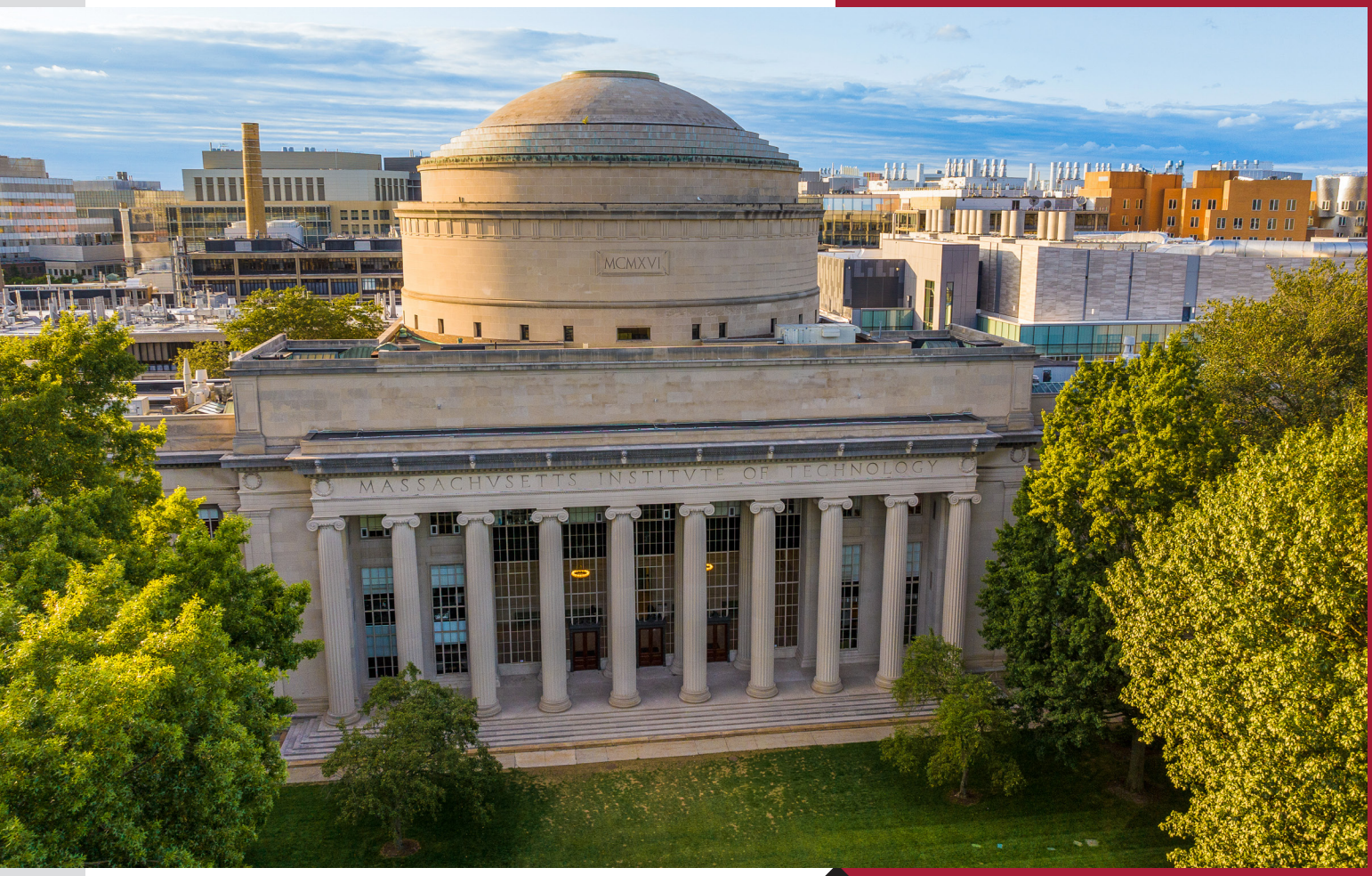


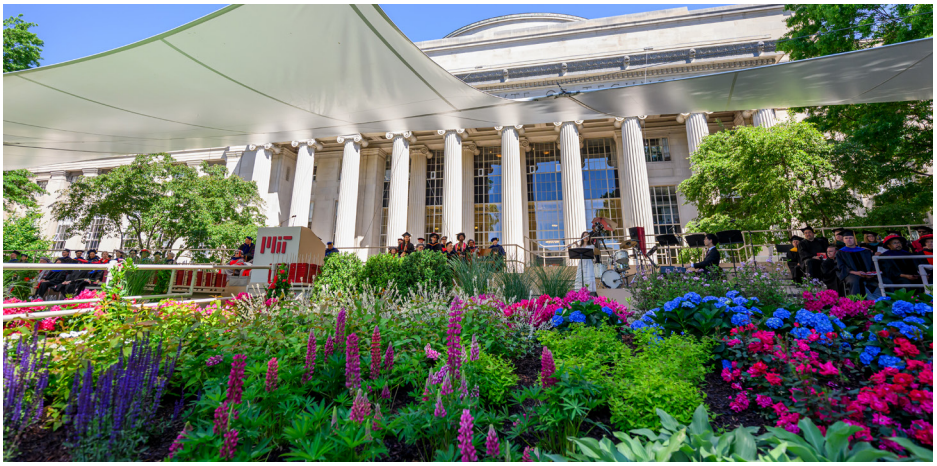
MIT
COMMENCEMENT
2025

MIT Commencement

Honoring the graduates of 2025

Thursday, May 29, 2025

Massachusetts Institute of Technology



WELCOME

The Class of 2025 will join a great, global family of more than 148,000 MIT alumni. Connected by shared experiences, our community is knit together by fundamental values and ideals: Excellence and curiosity. Openness and integrity. Creativity and boldness. A passion for solving tough problems. And a collective drive to use our strengths wisely to serve humanity.

Our new graduates will help create the future of our society—and our planet. But before they get started, we are delighted to join their families and friends in honoring their accomplishments at MIT.

Congratulations, Class of 2025!

Sally Kornbluth
President

Photos
Front and back cover: Emily Dahl
Above: Gretchen Ertl

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Feng Qiu
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Everly Chau Rael

Ning Zhang
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Ari Peró
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Minor in Writing

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Jennifer Xinran Zhang

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Brandon Chen
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Elliot Edward Chen

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Minor in Chinese

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Yi Suo
Also with a Major in Course XVIII

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Era Syla

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Zi Yan Wu

Alicia Xia
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(See also M.Eng., Course VI-P)

Jolene Zhang
Also with a Major in Course XV-2
Minor in Mathematics

Jonathan Zhang
Minor in Mechanical Engineering

Sarah Zixuan Zhang
Also with a Major in Course XVIII

Alice Zhao
(February, 2025)

Andrew J. Zhao
Minor in Mathematics
(See also M.Eng., Course VI-P)

Angela M. Zhao
(See also M.Eng., Course VI-P)

Angelina Jiarong Zheng

Brian Zheng

Cindy Zheng

Jennifer L. Zhou

Jonathan Shi Zhou

Hao Zhu

Ekaterina Zhulyabina

Bachelor of Science in Artificial Intelligence and Decision Making

Course VI-4

Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Rumaisa Abdulhai

Kavya Anbarasu

Zachary B. Ankner
Minor in Mathematics

Maxim Noel Attiogbe
Minor in Mathematics

Jenny Baek

Anthony Charles Baez

Jean Ghislain Billa

Marcus E. Bluestone

Hailey Boriel

Nicolas A. Bowden
Minor in Mathematics
Minor in Finance
(February, 2025)

Selam Daniel Brook

Eric Chen

Dušan Cvetković
Minor in Finance

Jacob Chai Daitzman
Minor in Management

Olivia M. Dias

Isaac A. Duitz
(February, 2025)

Benjamin Thomas Ebanks

Javier A. Garcia Palacios

Noah B. Getz

Pragnya Govindu
Minor in Business Analytics

Kaiwen Kevin Guo
Minor in Political Science
Minor in Mathematics

Anne Gvozdjak
Also with a Major in Course XV-2

Janka Franciska Hamori
Also with a Major in Course XV-2
Minor in Environment and Sustainability

Seunghee Han

Elise Rochelle Harvey

Almog Hilel

Crystal Huang
Also with a Major in Course XV-3

Felix Huang
Minor in Statistics and Data Science

Samantha G. Hughes
Also with a Major in Course XVIII

Andrew P. Hutchison
Minor in Mathematics

Ngima Hyolmo
Also with a Major in Course II-A
(February, 2025)

Leena Jhamb
Minor in Anthropology

Ayden D. Johnson

Aleksandar Jovanovic-Hacon
(February, 2025)

Saniya Karwa

Elenna M. Kim

Ji Won Kim

Subin Kim

Miho Koda
Minor in Finance

Riley Kong

Ananya Kulshrestha

Jinfeng Lin
Also with a Major in Course XV-2

Erin Yang Liu
Also with a Major in Course IX

James Liu

Srinath Venkat Mahankali
(February, 2025)

Samuel Abraham Mitchell
(February, 2025)

Manaal Mohammed

James Edward Moore V
Minor in Finance

Kateryna Morhun

Anesu T. Nhamo
Minor in Comparative Media Studies

Irura N. Nyiha
(February, 2025)

Riley Joon-Young Oh

David Chidi Oluigbo

Eddy Ogola Onyango

Pascal Jun Hee Passigan

Joshua Gallego Pereira
Minor in Writing

Quinn Perian

Nicholas Wayne Pietraszek
Minor in Finance

Daniel Oppong Prakah-Asante

Samuel Prieto Lima

Krithik Ramesh

Jose Ricardo Ramos

Shreya Ravikumar
Minor in Political Science

Lucas A. Rothman
(February, 2025)

Carlos Mariano Salcedo
Minor in Mechanical Engineering

Arashdeep Singh
(February, 2025)

Jashandeep Singh
(February, 2025)

Navpreet Singh
(February, 2025)

Shivali Singireddy
Also with a Major in Course XV-2
Minor in Economics

Julie Sherman Steele
Minor in Mathematics

Sabrina I. Su
Minor in Architecture

David R. Suarez

Adrina C. Tang
(See also M.Eng., Course VI-P)

Marina M. Ten Have
Minor in Urban Studies and Planning

Patrick M. Timons

Tyrin-Ian Todd

Yoanna Tesfaye Turura

Nhung Thi My Van

Franklin Xinbin Wang

Stephen Jacob Wilson

Michael Daniel Wong

Liane Xu
Also with a Major in Course II-A

Kidus Yohannes
Minor in Finance

Fedir Yudin
(February, 2025)

Michelle Zbizika

Xenia Zhao
Also with a Major in Course XIV-1

Bachelor of Science in Computer Science and Molecular Biology

Course VI-7
Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Ishaq O. Balogun
Minor in Music
(See also M.Eng., Course VI-7)

Natalie Chen Barnouw
Minor in Brain and Cognitive Sciences

José Angel Cázares Torres

Keanu A. Clark

Alexander Harrison Greer

Maria Fernanda Hernandez

Vivian S. Hir
Minor in Chemistry
Minor in Asian and Asian Diaspora Studies

Wilson Ho
Minor in Economics

Nanako Mary Kuze

David Kwabi-Addo

Olivier Lafontant-Joseph

Rudiba A. Laiba
Minor in Brain and Cognitive Sciences

Emma Rose Lee

Olivia M. Lee

Jessie Y. Liu
Minor in Finance

Kate Lu
Minor in Statistics and Data Science

Larissa Ma

Gabriela Erin Mariangel

Franklin Minh Le Nguyen

Lara Ozkan

Amelia V. Schueppert

Ananth P. Shyamal
Minor in Mathematics

Elizabeth M. Sun

Mohamed Hamza Suufi
Minor in Science, Technology, and Society

Alexandra Dmitriyevna Volkova
Also with a Major in Course XV-3

Victory Morenike Yinka-Banjo

Bachelor of Science in Computer Science, Economics, and Data Science

Course VI-14

Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Nicholas P. Abate

Peter M. Berggren
Minor in Mathematics
Minor in Philosophy

Shayne Laikin Bersin
Also with a Major in Course XV-2

Anika Bokil
Also with a Major in Course XV-2

Stephen Alexander De Varona Brennan

Bradley H. Bunch
(See also M.Eng., Course VI-14)

Mauricio Darcourt

Isabella D. Dobrinov
Minor in Literature

Anthony W. Evelyn, Jr.

Liam Colin Forges
Also with a Major in Course XV-2

Hyunjin Christina Lee

Spencer Lin
Also with a Major in Course XV-2

Daniel Y. Liu

George Liu
Also with a Major in Course XVIII

Audrey Jennifer Monick Lorvo

Tanusri S. Mandapati
Minor in Finance

Jayden M. McNab

Anh M. Nguyen
Minor in Mathematics

Antonio L. Ortiz Bigio
Minor in Mathematics

Samira Salwan
Also with a Major in Course XVII
Minor in Mathematics

Malachi J. Soqui

Clyde I. Tummings III
Minor in Finance

Alison Aileen Wang
Minor in Mathematics
(February, 2025)

Ashley Wang
Also with a Major in Course XVIII

Ellie Wang
Minor in Political Science
Minor in Mathematics

Jonathan O. Whyte
Minor in Mathematics

Kelly Wu
(See also M.Eng., Course VI-14)

Emma Zhu

Bachelor of Science in Chemical Engineering

Course X

Department of Chemical Engineering

Jehan Hisham Ahmed
Minor in Economics

Porter Anne Bowen
Minor in Materials Science and Engineering

Lia Pascale Bu
Minor in Political Science

Mikayla Ashley Cable

Katherine A. Crowley
Minor in Nuclear Science and Engineering

Megan P. Eaton
(February, 2025)

Elena J. Garza
Minor in Economics

Logan T. Hammond
Minor in Nuclear Science and Engineering

Andrew J. Okyere
Minor in Chemistry

Stella Sky Shipps
Minor in Finance

Reed Lavoy Tubbs

Jason J. Zhang
Also with a Major in Course V

Bachelor of Science in Chemical-Biological Engineering

Course X-B

Department of Chemical Engineering

Olivia Y. Beniston
Minor in Music

Eric Chen
Also with a Major in Course VII
Minor in Writing

Adeena A. Khan
(February, 2025)

Safiyyah Oluwadamilola Ogundipe
(September, 2024)

Morayo Oladipo
Also with a Major in Course VII

Cassandra Parada

Sydney Lauren Pyon
Minor in Finance

Isias C. Workeneh
Also with a Major in Course VII

Grace Yang
Also with a Major in Course VII

Alvin Zou
Also with a Major in Course VI-7

Bachelor of Science in Engineering as recommended by the Department of Chemical Engineering

Course X-ENG
Department of Chemical Engineering

Iselle Marie Barrios

Guilherme Bejar

Joshika Chakraverty
Also with a Major in Course XVIII
(February, 2025)

Jessica Lynne Dett
Minor in Nuclear Science and Engineering
Minor in Energy Studies

Andy Fong
Also with a Major in Course XII

Alondra J. Hernandez

Sarah Isabelle Hernandez
Minor in Economics

Maximiliano Manuel Ramirez
Minor in Computer Science

Janet Teng
Minor in Computer Science

Lana Elise Van Note
(February, 2025)

Bachelor of Science in Aerospace Engineering

Course XVI
Department of Aeronautics and Astronautics

Kennedy Elaine Adkison
Minor in History

John H. Ansley
Minor in Spanish

Pablo A. Arroyo

Nigel Elliot Taesoo Barnett

Dana Leigh Bell

Grayson J. Bertaina
Minor in Entrepreneurship & Innovation

Evan Wade Boothe
Minor in Music
Minor in Ancient and Medieval Studies

Kristine M. Bridges
(February, 2025)

Tomás Francisco Cantú Rodríguez
Also with a Major in Course XVIII

Hakan Mason Chunton
Also with a Major in Course VI-14

Amber Marie Cooper
Minor in Earth, Atmospheric, and Planetary Sciences

McKenzie May Dinesen
Minor in Russian and Eurasian Studies

Brianna Ferro

Tamara N. Hinderman
Minor in Earth, Atmospheric, and Planetary Sciences
Minor in German

Zen Chi T. Ho Sang
Minor in Materials Science and Engineering

Joseph R. Hobbs

Phillip Thomas Hood
Also with a Major in Course XVII

Kennedy Renee Jordan

Owen Keith Matteson
Minor in Computer Science

Gabriella Elise McDonald
Minor in Political Science

Cesar Meza

Marina Mae Miller

Kristoff K. Misquitta
Minor in Computer Science
(February, 2025)

Daniel P. Monaghan

Alexandra Christine Mrozek
Minor in Political Science

Insuh Andrew Na

Eva S. Oppenheim

Marc Rizk
Minor in Finance

Vaneeza Rupani
Minor in Earth, Atmospheric, and Planetary Sciences

Jessica R. Rutledge
Minor in Computer Science

Xavier Jason Leihiwa St. Hill

Christina Turney
Minor in Political Science

Louisa Wood
Minor in Mechanical Engineering

Kai Y. Xi

Elizabeth Y. Zhu

Bachelor of Science in Engineering as recommended by the Department of Aeronautics and Astronautics

Course XVI-ENG
Department of Aeronautics and Astronautics

Cynthia Xinyi Cao

Benjamin A. J. Evans

Alejandro Gonzalez-Ayala
Minor in Music
Minor in Computer Science

Aliya K. Kpamegan

Joyce Lu

Julianne Nicole Miana

Brian Anthony Minnick

William B. Peale III
Also with a Major in Course VI-4

Andrew Scott Welter

Ryan Y. Xiao
Also with a Major in Course VI-2

Bachelor of Science in Biological Engineering

Course XX
Department of Biological Engineering

Amina Abdigani Abdalla
Also with a Major in Course VII

Katia Itzel Alarcon

Daniel T. Antov
Minor in Management

Katarina Elisabeth Augustyn
Minor in German

Aidan N. Bousquet

Mingxin Chen
Minor in Economics

Miki L. Chiang

Jordan L. Dattero
Also with a Major in Course IX

Lauren Elizabeth Davis
Also with a Major in Course IX

Jalen Christopher Evans

Sofia A. Flores

Isabella S. Gándara
Minor in Science, Technology, and Society

Alisha Sharon Gonzales

Morgan Sabrina Guempel
(September, 2024)

Sydney Lynn Hawkins
Minor in Political Science

Jenna Sophia Ambrogi Houle
Also with a Major in Course III

Sabrina Hu
Minor in Public Policy

Katarina Avril Katsuyama
Minor in Management

Zixuan Liu
Also with a Major in Course VII
Minor in Chinese

Isaac A. Lock
Also with a Major in Course XXIV-1

Rachit Sai Mukkamala
Minor in Music
Minor in Computer Science

Tamsin Sophia Nottage
Also with a Major in Course XV-3

Xinyan Pan
Minor in Chinese
Minor in Computer Science

Luc E. Picard

Meagan Rowlett
(February, 2025)

Laboni Santra

Kristen Si

Charles Samuel Morgan Sloane

Chloe Elyse Swanson

Matilda Rose Swanson
Minor in Mechanical Engineering

William Jefford Vasquez McTeigue
Minor in Biology

Anika Wadhera
Minor in Spanish

Sidney Wang

Alexandra Hae Young Wardle
Minor in Biology

Naomi Henok Zecharias

Bachelor of Science in Nuclear Science and Engineering

Course XXII
Department of Nuclear Science and Engineering

Liliana R. Arias

Riley S. Moeykens
Also with a Major in Course VIII
(See also S.M., Course XXII)

Bachelor of Science in Engineering as recommended by the Department of Nuclear Science and Engineering

Course XXII-ENG
Department of Nuclear Science and Engineering

Liam J. Coy
Also with a Major in Course VIII

Lucas Marshall Dett

Kaelyn Cole Dunnell
Also with a Major in Course XXI-L
Minor in Physics

Alexander T. Edwards
Also with a Major in Course II-A

Megan Gupta-She
Minor in Mechanical Engineering

Ifeoma Ijeli
Minor in Computer Science

Samantha Rose Karlson
Minor in Materials Science and Engineering

Eleni T. Mowery

Mateo Pisinger

Samantha N. Rencher
Minor in Music

Kaitlyn Marcella Yanna
Also with a Major in Course XXI-G
Minor in Physics

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Bachelor of Science in Economics
Course XIV-1
Department of Economics

Katherine Lillian Ellison
Minor in French

Ajinkya P. Gundaria

Emily Y. Jin
Minor in Music

Sara James Manos
(February, 2025)

Annie Wang
Also with a Major in Course VI-3

Bachelor of Science in Mathematical Economics
Course XIV-2
Department of Economics

Motifaramoluwa R. Alade
Minor in Urban Studies and Planning

Aiden A. Render-Katolik
Also with a Major in Course XVII

Bachelor of Science in Political Science
Course XVII
Department of Political Science

Edgardo Alfredo Letona Chávez
Minor in Economics

Rebecca L. O'Connor
Minor in Brain and Cognitive Sciences

Bachelor of Science in Theater Arts
Department of Music and Theater Arts

Maia I. Campbell
(February, 2025)

Bachelor of Science in Writing
Course XXI-W
Program in Writing and Humanistic Studies

Emily Kyuyoung Kang
Also with a Major in Course VI-3
Minor in Mathematics
Minor in Theater Arts

Bachelor of Science in Humanities and Engineering
Course XXI-E
Department of Humanities

Verose Agbing

Michelle Chan

Emi Alis Grady-Willis

Sabrina Y. Hu

Yeabsira R. Moges

Omar Orozco

Bachelor of Science in Humanities and Science
Course XXI-S
Department of Humanities

Kelvin L. Green II
Minor in Writing
(February, 2025)

Ana C. Velarde-Gomez

Bachelor of Science in Philosophy
Course XXIV-1
Department of Linguistics and Philosophy

Luca Lewin Musk
Also with a Major in Course VI-3

Chang Xu
Also with a Major in Course VI-3
(February, 2025)

Bachelor of Science in Linguistics and Philosophy
Course XXIV-2
Department of Linguistics and Philosophy

Faith Christine Baca
Also with a Major in Course XVIII-C

Bachelor of Science in Comparative Media Studies
Program in Comparative Media Studies

Ethan Nevidomsky
Also with a Major in Course VI-3
(February, 2025)

AudreyRose Ramona Wooden
(February, 2025)

SLOAN SCHOOL OF MANAGEMENT

Bachelor of Science in Management
Course XV-1
Sloan School of Management

Aaliya Hussain

Kade Jacob Killeen

Johnson Lin
(February, 2025)

Anica T. Liu
(February, 2025)

Kyna Mei-Wah McGill
Also with a Major in Course XXI

Jack B. Minor
Minor in Energy Studies

Georgia Grace Marie Severson

Nicolas Andres Stone Perez
Also with a Major in Course VI-14

Vivian Qiao Tan
Also with a Major in Course VI-14

Casey P. Tewey

Jocelyn Sun Zhu
Also with a Major in Course VI-9

Bachelor of Science in Business Analytics
Course XV-2
Sloan School of Management

Sarah Avery Berman
Also with a Major in Course VI-14

Mackenzie Rae Bivin
Also with a Major in Course XIV-1

Vivian Clarissah Chinoda

Grace G. DeMartino
Minor in Economics
Minor in Design

Gabrielle R. Girard

Kristen Alexis Lee

Rumi Jung Lee
Also with a Major in Course XXI-E

Allison Libby Li
Also with a Major in Course VI-3
Minor in Chinese

Maya N. Makarovsky
Also with a Major in Course VI-14

Jack Thomas McCordic
Minor in Economics

Kamsi N. Nwogu
Also with a Major in Course VI-14

Konstantina Rasvani
Also with a Major in Course XVIII

Oriana Gabriela Sampson

Haley M. Sanchez
Also with a Major in Course VI-9

Kaden Silva

Isaac Villalobos
Also with a Major in Course VI-3

Bachelor of Science in Finance
Course XV-3
Sloan School of Management

Kush K. Bavaria
Also with a Major in Course VI-14

Kenneth VanDerveer Byrne
Also with a Major in Course VI-14

Paula Daniela Contreras Nino
Also with a Major in Course VI-9

Kimberly Dutta
Minor in Biology

Ella Frances Gragg
Minor in Economics

John Christopher Grier
Minor in Mechanical Engineering
Minor in Economics

Jade Bei Hawkesworth

Kayla J. Howard
Minor in Spanish

Gloria Huang

Jolie Chiang Kim
Also with a Major in Course VI-14

Sanjay R. Long
Minor in Statistics and Data Science

Dylan R. Nelson
Minor in Economics

Sophia V. Petrovas
Minor in Economics

Alexander E. Podrez
Also with a Major in Course VI-3
Minor in Mathematics

Devon Olivia Reid
Minor in Theater Arts
(February, 2025)

Adriana Isabel Rivera Socarrás
Minor in Computer Science

Ethan B. Robertson
Also with a Major in Course VI-14

Joann Chen Shi
Minor in Mathematics
Minor in Computer Science

Emily Jiang Warren
Minor in Computer Science

Hannah G. Zhang
Also with a Major in Course VI-14

SCHOOL OF SCIENCE

Bachelor of Science in Chemistry
Course V
Department of Chemistry

David Benko

Vladislav Cherdantsev

Shih-Peng Huang
Also with a Major in Course VI-3
Minor in Japanese

Alia Abdo Kassim
Minor in Computer Science

Nicolas Adriel Manno
Also with a Major in Course XVIII

Alexandra Jo Montes

Madison Tianhui Wang
Also with a Major in Course XXI-W

Bachelor of Science in Chemistry and Biology
Course V-7
Department of Chemistry

Jaden Karmel Anderson

Emily Kae Ball
Minor in Music

Alexis Symone Boykin

Sofía del Carmen Galiana
Minor in Theater Arts

Şebnem Gül
Minor in Computer Science

Josh Lian
Minor in Asian and Asian Diaspora Studies

Effaima Michelle Longe

Denisse Romero Cruz

Leon Y. Wang

Qiyang Zhou
Minor in Computer Science

Bachelor of Science in Biology
Course VII
Department of Biology

Willow Ross Carretero Chavez
(February, 2025)

Ryan J. Gray
Also with a Major in Course XII

Akshay Gupta

Sofia M. Haug
(February, 2025)

Ian M. Koe

Alexander J. Krusell
Minor in Chemistry
Minor in Brain and Cognitive Sciences

Katelyn Lee
Minor in Spanish

Winona Liu
Minor in Management

Liza D. Metcalf
(September, 2024)

Jyotsna Rajalakshmi Nair
Also with a Major in Course XXI-W

Kate Ajoboa Oteng-Bediako

Edward Park

Michaela Pearle Purvis

Benicio E. Tapia
Minor in Spanish

Rachel E. Whyte

April Wu

Michelle Wu

Bachelor of Science in Physics
Course VIII
Department of Physics

Nicolas Amato
Minor in Earth, Atmospheric, and Planetary Sciences

Antti Eero Kalevi Asikainen

Saul Stephen Balcarcel-Salazar
Also with a Major in Course XVIII
Minor in Computer Science

Ridings A. Bald
Also with a Major in Course XVIII-C
(February, 2025)

Tsolmon Bazarragchaa
Also with a Major in Course II-A
(February, 2025)

Jorian P. Benke
Also with a Major in Course XVI

Brennen J. Black
Minor in Mathematics

Timmy Duy Bui
Also with a Major in Course VI-1

Jose Hernan Cerritos Arevalo
Also with a Major in Course VI-1

Eddie Z. Chen

Neil Chowdhury
Minor in Computer Science
(February, 2025)

Samuel Christian

Kenneth Garth Collins
Also with a Major in Course VI-2

David D. Dai

Taylor N. Dawson
Minor in Earth, Atmospheric, and Planetary Sciences

Samuel J. B. Engebretson
(September, 2024)

Andoni Fernandez Chiu
Minor in Computer Science

Xinyun Jiang
Also with a Major in Course VI-2
Minor in Economics
Minor in Mathematics
(See also M.Eng., Course VI-P)

Rohan P. Kanchana

Reece H. Kishimori

Kevin A. Kurashima
Also with a Major in Course VI-3
Minor in Mathematics

Alexander J. M. Laiman
(February, 2025)

Cassandra M. Lawson
Minor in Literature

Alice Trang Le
Also with a Major in Course XXI-W

Karen Lei

Yohance L. Lewis
Minor in Computer Science

Anna C. Lillwitz
Also with a Major in Course XXII-ENG

Donald J. Liveoak

Benjamin Lou
Also with a Major in Course XVIII
Minor in Philosophy

Catherine Lowe

Joy J. Ma
Also with a Major in Course VI-3
Minor in Theater Arts

Nicholas R. Maldonado

Jovan Marković
Also with a Major in Course XVIII-C

Jacob Redmond McCarran
Also with a Major in Course VI-2

Lily M. Moseni
(February, 2025)

Shion Murakawa
Minor in Earth, Atmospheric, and Planetary Sciences

Prajna Rajalakshmi Nair
Minor in Astronomy

Quan Manh Nguyen
Also with a Major in Course XVIII

Caitlin Louise O'Brien

Kayla E. O'Donnell
Minor in Mathematics

Lyne-Nicole A. Odhiambo

Anna V. Orgel

Dylan Kairos Lee Robinson
Also with a Major in Course XIV-2
(February, 2025)

Lucas Shoji
Also with a Major in Course VI-9
Minor in Music

Max Tan
Also with a Major in Course VI-4

Tenzin Jampa
Also with a Major in Course XXIV-1

Christopher L. Tong
Also with a Major in Course XVIII

Kai A. Van Brunt

Elise Alexis Wingard
Also with a Major in Course VI-2

Reidyn Wingate

Eleanor A. Winkler
Minor in Computer Science

Leo Yao
Also with a Major in Course VI-2
Minor in Mathematics

Benjamin J. Young

Bachelor of Science in Brain and Cognitive Sciences

Course IX
Department of Brain and Cognitive Sciences

Jia Yi Huang
Also with a Major in Course V

Bianca Santi

Mia Sedgwick
Also with a Major in Course XVIII
Minor in Biology

Samuel C. Tukua

Bachelor of Science in Computation and Cognition

Course VI-9
Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing

Rachel Ai

Samir M. Amin

Karen Lisa André

Autumn Rose Artist

Kayla S. Bluestone
(February, 2025)

Evelyn Cai
Minor in Finance
(February, 2025)

Claire Camacho

Cristian G. Castillo

Alicia Siyi Chen
Minor in Statistics and Data Science

Harry Chen

Jason Chen
Also with a Major in Course XVIII

Faith Frances Choe
Minor in Biology

Yuri Choi

Sofie Chak-Riya Chung

Angeles Eugenia Cibils Bernardes

Wells Griffin Suuputaq Aurruk Crosby

Audrey Anne Douglas

Nicolette Elaine Elliott
Also with a Major in Course XV-2
Minor in Biomedical Engineering

Aiden R. Foucault Etheridge

Kameron Garland

Renee Ge
Also with a Major in Course XXI-L

Evan Hong

Willow Huang
Minor in German

Janvi Huria
Minor in Biomedical Engineering
Minor in Science, Technology, and Society

He Jiang
Also with a Major in Course XX
(February, 2025)

Olivia Anne Joseph

Ella Nadine Kazazic
Minor in Japanese

Jack Garrett King

Ariel Adenike Largen

Nathan P. Levandoske

Jada J. Li
Minor in Spanish

Jessica J. Lu
Minor in Comparative Media Studies

Sophie Lu

Taji Luena Manning

Victoria Kate McMillan
Minor in Biology

Andrew J. Milton

Jacqueline R. Mitzenmacher
Minor in German

Edgar A. Morfin

Nnamdi Ifeanyi Obi

Caitlin Christine Aba Ogoe

Oghogho Nicole Okunbo
Minor in Mathematics

Eri-ife Omobolaji Olayinka

Mark Antony Razanau

Eli Michael Scharf
(February, 2025)

Alay R. Shah

Qudus Shittu

Jazhara A. Solan

Claire RaeAnn Southard

Dharma Sofia Suarez Palacios
(February, 2025)

Sophie Xuening Sun

Diego Pichai Ufre Swaddipong

Walta Teklezgi
(February, 2025)

Ella Faye Tubbs

Asal Vaghefzadeh

Megha Maalika Vemuri
Also with a Major in Course XXIV-2

Ashley R. Williams
Also with a Major in Course XXI-M

Bachelor of Science in Earth, Atmospheric, and Planetary Sciences

Course XII
Department of Earth, Atmospheric, and Planetary Sciences

Lucy Clare Brock
Also with a Major in Course XVIII

Rina Cao

Markey R. Freudenburg-Puricelli
Minor in Spanish

Rory S. Knight

Kathryn T. Kummel
Minor in History

Anika Nath
Also with a Major in Course VIII

Daina M. Neithardt

Maurielle Isabella Noto
Minor in Astronomy

Bachelor of Science in Mathematics

Course XVIII
Department of Mathematics

Fatima Nasir Abbasi
Also with a Major in Course VIII
Minor in Writing

Axel S. Adjei
Also with a Major in Course VI-3

Lauren Sedgwick Aguilar
Also with a Major in Course I

Jennifer Ai
Also with a Major in Course VI-14
(February, 2025)

Andres S. Arroyo
Also with a Major in Course VI-2

Elizabeth A. Athaide
Also with a Major in Course XXI-M

Adithya Shyam Balachandran
Also with a Major in Course VI-3
Minor in Physics
(See also M.Eng., Course VI-P)

Abhay Basireddy
Also with a Major in Course VI-3

Howard Arthur Tadeo Beck III

Ankit Bisain
Minor in Computer Science

Beatrice Casartelli
Also with a Major in Course XV-1

Curtis K. Chang
Also with a Major in Course VI-14

Alvin M. Chen
Also with a Major in Course VI-9

Brian Chen
Also with a Major in Course VI-4
(February, 2025)

Lily Wenyu Chen
Also with a Major in Course VI-2
(See also M.Eng., Course VI-P)

Ionel-Emilian I. Chiosa
Also with a Major in Course VI-4

Mark Chiriac
(February, 2025)

Owen T. Conoly
Also with a Major in Course VI-3

Ryan Michael Conti
Also with a Major in Course VI-3

Samuel R. Coutts
Also with a Major in Course VI-4

Kelly Cui
Also with a Major in Course VI-3
(February, 2025)

Sanjana Das
Minor in Linguistics

Matija Delić
Also with a Major in Course VI-14

Nishant Dhankhar
Also with a Major in Course VIII
Minor in Economics

Roni Papa Yaw Adom Edwin

Evan Asher Ewing

Ammar Fayad
Also with a Major in Course VIII

Jackson Abner Flowers
Also with a Major in Course VI-3

Julianne Elizabeth Flusche
Minor in Economics
Minor in Finance

Abhinav Mihir Goel
Also with a Major in Course VI-2
(See also M.Eng., Course VI-P)

Gopal K. Goel
Also with a Major in Course VIII
(February, 2025)

Katherine Jean Hall
Minor in Computer Science

Matthew H. Ho
Minor in Computer Science

Daniel X. Hong
Also with a Major in Course VI-3

Sashko Horokh
Minor in Economics

Xinghui Hu
Also with a Major in Course VI-3
Minor in Economics

Dobrica Jovanovic
Also with a Major in Course VIII
Minor in Philosophy

Aidan J. Leonard
Also with a Major in Course VIII

Maxim Q. Li

Sean Jinxiang Li
Also with a Major in Course VI-3

Mia Y. Liang
Also with a Major in Course VI-4
Minor in Design

Egor Lifar
Also with a Major in Course VI-3

Brian S. Liu
Also with a Major in Course VI-3

Isaac M. Lopez

Andrei Theodore Marginean
Also with a Major in Course VI-14

Jorge A. Martinez
Also with a Major in Course VI-3

Isabel E. McGuigan
(February, 2025)

Anna Mikulevica
Also with a Major in Course VII

Luis Alberto Modes Castillo

Archana A. Mohandas

Camila Moran-Hidalgo
Also with a Major in Course VI-4

Mario Mrowka
Also with a Major in Course VI-3

Holden Mui
Also with a Major in Course XXI-M
Minor in Physics

Laker Joseph Newhouse
Also with a Major in Course VI-4
Minor in Physics
(See also M.Eng., Course VI-P)

Jakin Sue-Yan Ng
Also with a Major in Course VI-4

Liva Olina
Also with a Major in Course VI-4

Misheel Otgonbayar
Also with a Major in Course VI-3

John Joseph Payne

Brooke Leffingwell Pulling
Also with a Major in Course VI-4

Mingzhen Qi
Also with a Major in Course VI-3
Minor in Music

Diego A. Rivero
Also with a Major in Course VI-4

Davian Rodriguez
Also with a Major in Course VI-4

Marcus S. Russell

George Shaker

Nathan Sterling Sheffield
Also with a Major in Course VI-3

Benjamin S. Shimabukuro

Ron Shprints
Also with a Major in Course VI-3

Divya Padmalatha Shyamal
Also with a Major in Course VI-4

Togzhan Shyntay
Also with a Major in Course VI-3

Tomasz Slusarczyk
Also with a Major in Course VIII
Minor in Chemistry
Minor in Biology

Andrew M. Spears
Also with a Major in Course VI-3

Ellery Bradley Stahler
Also with a Major in Course VI-4

Nicholas G. Stiles
Minor in Computer Science

Donald J. Stralkus III
Also with a Major in Course VI-4

Kenta J. Suzuki

Li Xuan Tan
Also with a Major in Course VI-3
Minor in Nuclear Science and Engineering
Minor in Energy Studies

Katherine Eliza Taylor
Also with a Major in Course VI-4
Minor in Philosophy

Natanon Therdpraisan
Also with a Major in Course VI-3

Jaden E. Thomas-Markarian
Also with a Major in Course VIII

Nguyen Tran Bach
Also with a Major in Course VI-4

Kylie B. Walsh
Minor in Economics
Minor in Statistics and Data Science

Noah D. Walsh
Also with a Major in Course VI-3
Minor in Music

Michelle Han Wang
Also with a Major in Course VI-3

Kevin Wen
Also with a Major in Course VI-3

Alek M. Westover
Also with a Major in Course VI-4

Nathaniel Sherlock Woodward
Also with a Major in Course VIII

Anchi Xia
Also with a Major in Course XIV-1

Yuxin Xie
Also with a Major in Course VI-4
Minor in Physics

Yang Yan
Also with a Major in Course VI-3

Paige C. Yeung
Minor in Earth, Atmospheric, and Planetary Sciences
Minor in Literature

Christina Yu
Also with a Major in Course VI-3
(February, 2025)
(See also M.Eng., Course VI-P)

Ellen Zhang
Also with a Major in Course VI-4

Jennifer J. Zhang
Also with a Major in Course VI-4

Jeremy Zhou

Honglin Zhu
Also with a Major in Course VI-4

Weiduo Zhu
Also with a Major in Course VI-14

Yitian T. Zhu
Also with a Major in Course VI-14

Bachelor of Science in Mathematics with Computer Science

Course XVIII-C
Department of Mathematics

Khalid H. Ajran

Natnael A. Asegdew

Lucy V. Epstein

Samuel H. Florin
Minor in History
Minor in Statistics and Data Science

Noble C. Harasha
Minor in Design

Thomas Patrick Silbey Hogan III
Minor in Finance

Eric Hong

Andrew Lawrence Kessler, Jr.

Naail Lakhani

Grace L. Li
Minor in Finance

Renato Martínez Del Valle
Minor in History

Arthur Migdal

Laasya Nagareddy

Wayne Nelms, Jr.
(February, 2025)

Luke Hylton Pilot

Enrique A. Rivera Ferraiuoli
Minor in Economics

Justin Shan
(February, 2025)

Jennifer Wang

Holden E. Watson
Also with a Major in Course VIII

Alex Wei

Barima Yaw Sawasan Wiafe-Ababio

Sophie Wu

Zoe Xi

Grace Y. Zhang

Zimi Zhang
Also with a Major in Course VIII
Minor in Writing

Sally Elizabeth Zhao

Vicky Zhao
Minor in Japanese

Alec Chen Zhu

Wilson Zhu

SCHOOL OF ARCHITECTURE AND PLANNING

Master of Architecture
Course IV
Department of Architecture

Soala Lolia Ajienka
(See also S.M., Real Estate Development)
Face Me, I Face You: Towards an Indigenous Economy of Glass in Southern Nigerian Dwellings

Gabriel Ildefonso Andrade
(February, 2025)
Sweating Details: Labor of ¿los Constructores del Valle?

Leanah Sloan Aulgur
(February, 2025)
Green Herrings in a Yellow Room

Tejumola Bayowa
(February, 2025)
If These Hills Could Speak

Harris Ahmad Chowdhary
(February, 2025)
Marketplace Multiculturalism

Alicia Jael Delgado
The Kitchen Table as Pedagogical Boundary Object

Maria V. Diavolova
How Things Come to Matter

Tatiana Victorovna Estrina
(February, 2025)
(See also S.M., Course VI)
Architecture as Prosthesis

Brenda Alejandra Hernandez
(February, 2025)
Public Too Private

Juan Daniel Hurtado Salazar

Charles Perot Janson
(February, 2025)
Building Insurance

Nikita Klimenko
(See also S.M., Course VI)
Cooling Machines Exploring the Heat Mitigation Effect of Urban Trees with Computer Vision

Courage Kpodo
(February, 2025)
Ending Well: Making the Harvest-Path of Our Values

Sesil Lee
Hidden Monuments

So Jung Lee
(February, 2025)
Falling Isn't the End: Reimagining Demolition as a Creative Practice

Evan Richard Ortiz
(February, 2025)
Dynamic Markers

Mackinley Wang-Xu
(February, 2025)
American (Ise): On the Lifecycle of Stadiums in the United States

Yi En Wu
(February, 2025)
On Hing Travel Agency: Fictional Archive of Disappearing Hong Kong

Jeonghyun Yoon
(February, 2025)
Precisely Loose: Unraveling the Potential of Particles

Master of Science in Architecture Studies
Course IV
Department of Architecture

Aikaterini Apostolopoulou
From Scar to Scaffold: The Afterlife of the Oil Pipeline for a Decarbonizing World

Yining Bei
Natural Interaction: 3D Modeling in Wearable VR Using a Gesture and Speech Interface

Rachel Blowes
Dowel-Laminated Timber from Waste Lumber Offcuts: Towards Structural Component Circularity

Lina Bondarenko
Social Sensory Somatic Scores for Species, Spaces, Soils, and Structures of Steep Slopes

Celia Quynh-Mai Chaussabel
The Objectiles' Guide to Time Travel: Re-Envisioning Building Materials as Narrative-Collecting Object-Projectiles on a Trajectory through Space-Time

Yufei Chen
(September, 2024)
Exploring the Internet Celebrity City: Social Media and Urban Space in China

Dominic Lim Co
(See also S.M., Course VI)
Mapping Informality: An Approach to Classifying Sidewalk Informal Practices and Elements through Street View Imagery

Minghao Du
Toward an Age-Ready Suburbia

Nasibe Nur Dundar Arifoglu
Co-Authoring Beyond the Human: Disordering Architectural Processes through Play and Multi-Agent Co-Existence

Jie Fan
(September, 2024)
(See also S.M., Course VI)
Redefining Urban Landscapes: A Methodological Approach to Transforming Underused Parking Spaces with Dynamic Urban Functions

Jin Gao
(See also S.M., Course VI)
Mediators: Participatory Collective Intelligence for Multi-Stakeholder Urban Decision-Making

Danny Bagley Griffin
Guiding Labor: Sensible Instructions through Digital Jigs

Arezo Hakemy
Weaving Borders, Mapping Place: Afghan War Rugs of the Soviet-Afghan War (1979-1989)

Mark Anthony Hernandez-Cornejo
The Vernaculars of Our Networks: From the Cloud to a Plurality of Grassroots Digital Infrastructures

Haidar El Haq Hibaturrahim
Koalisi Lahan-Gambut: Assembling Peat-Land Futures in Kalimantan

Yewon Ji
Post-Carbon Seoul: Low-Carbon Interventions for a High-Carbon Housing Stock

Namhi Kwun
(See also M.C.P., Course XI)
Burning S(e)oul: A Body for Cremation

Simon Lesina-Debiasi
Sensing Buildings: Environmental Impact of Sensor Technologies and Data Infrastructure in Buildings

Tien Yi Li
Modelling Diarists: Diary-Writing and Moral Anxieties in China, 1918-62

Daniela Martínez Chapa
City in the River: Regeneration of the Santa Catarina as an Intermittent Urban River

Dimitrios Moutafidis
Lightning Archaeologies: Imagining Design with Earth Energies

Geoffrey Mosoti Nyakiongora
(September, 2024)
Bridging the Health Divide: Achieving Equitable Healthcare Access in Kenya through Artificial Intelligence

Habin Park
Banjiha Stories (2025)

Johann Schweig
(September, 2024)
The Shape of Kubler: George A. Kubler in Peru, 1948-49

Kaicheng Zhuang
Toward an Age-Ready Suburbia

Master of Science in Art, Culture and Technology

Course IV
Department of Architecture

Vinzenz Norbert Pierre Aubry
Allopoietics in Real Time: Unfolding Among Art, Publics, Space, and Time

Haotian Cong
Leaky Vessels

Haozhen Feng
She Swims in Silence: Spatial Narrative, Women's Labor in Contemporary Art

Brian Hudson Huang
Inscrutability: An Epistemological Experiment

En-Ci Lum
A Wound Designates a Subject

Master of Science in Building Technology

Course IV
Department of Architecture

Natasha K. Hirt
(See also S.M., Comp. Sci. & Eng)
Structural Analysis at Scale: Computational Modeling of Embodied Carbon in Complex Floor Layouts

Adriana Ramirez Cuebas
Carbon Footprints and Decarbonization Strategies for North American Urban Landscapes: Evaluating Pavements and Vegetation Across Design Typologies

Master in City Planning

Course XI
Department of Urban Studies and Planning

Christin-Joy Capuli Armstrong
(September, 2024)
A Closer Look at Atlanta's Neighborhood Planning Units: How Atlanta Might Better Leverage the Neighborhood Planning Unit Meeting as a Tool for Equity and Civic Empowerment

Victoria Anne Avis
Spatial Thinking as an Analytical Lens for Bilateral International Development: Lessons from the Harbor Reconstruction Project in Jamestown, Accra

Devora Barrera Gonzalez
Can Planning, a Tool for Colonization, Be Decolonized? MIT's Funding at the Expense of Indigenous Peoples through the Morrill Act

Amanda Kay Bendixen
Relationality and Reciprocity in Civic Design: Public Engagement and Offshore Wind Development in the Gulf of Maine

Mikel Berra Sandin
Housing in European Metropolises: Supply Dynamics and Planning Frameworks in Large Urban Areas of the EU

Smriti Chandur Bhaya
(September, 2024)
Enhancing Impact Evaluations of Water Organizations in India: Leveraging Technology for Impact Evaluation

Jacob Delevan Boeri
Understanding Micromobility in New York City: An Examination of Vehicle Type Use and User Behavior in Protected Bicycle Facilities

Amenyonah M. Bossman
(September, 2024)
How Does a Cooperative Economics Model Help to Close the Black Racial Wealth Gap for Boston's Low-Income Homeowner Community?

Maurice Lamar Bradford, Jr.
Rebuilding Civic Infrastructure for Equitable Development: Intermediary Solutions for Transforming Resource-Extractive Economies in Rural Southwest Arkansas

Faith William Cerny
(See also S.M., Real Estate Development)
Accelerating Mass Timber Adoption in Greater Boston, Massachusetts: A Practical Study for Local Real Estate Developers

Vir Chachra
Farebox Freedom: An Analysis of Centralized Fare Policy Interventions Relative to the Suburbanization of Poverty

Sofia Belen Chiappero
When Public Space Goes Digital: Rethinking Urban Planning with Insights from Letra Ese

Milan Chuttani
The Community Retrofit Trust: Incentivizing Deep Energy Retrofits in Massachusetts' Triple Deckers

Zoe Juliana Cina-Sklar
Decarbonization at the Neighborhood Scale: Challenges, Learnings and Opportunities in an Emerging Model

Lucy Cassidy Corlett
Beyond Safety and Surveillance: New Possibilities for Public Light After Dark

Zak Davidson
Interest Group Politics in U.S. 'Social Housing' Experiments

Simone Hope Delaney
Flooding as Remembering: A Trickster's Guide to Fugitive Ecology, Revolutionary Recall, and Speculative Worldbuilding Beyond the Plantationocene

Javier Ricardo Diaz Peñaloza
(See also S.M., Course VI)
Responsive City Planning through the Lenses of Natural Language Processing (NLP): A Case Study of TransMiCable in Bogotá, Colombia

Curtis David Dufour
Subaltern Spaces in the Ancient City: Cultural Identity, Spatial Memory, and Networks of Meaning in Roman Pompeii

Silvia Duque Añez
Equity and Climate Resilience in Bogotá's Public Space Policy: A Critical Policy Review

Raelene Ina Bianchi Louise Mendez Dy
When Girls Just Want to Have Fun, How Do They Go? A Mixed Methods Study on Night-Time Transit Demand and Provision in Boston

Kareem H. El-Sisi
(See also S.M., Course VI)
Miles Matter: Demographics, Distance, and Decision-Making

Sarafina Rose Fabris-Green
From Parking to Parcels: The Potential for Microhubs in New York City's Parking Garages

William Farabow
The Private Sector in Public Transit: Evaluating Early US Experience in P3s

Olivia Fiol
Affect in Resiliency Planning: A Conversation with Broad Channel

Caitlin Liang-Yuh Fukumoto
Examining Creative Land Use Planning and Funding Solutions for Coastal Resilience in Boston's Designated Port Areas

Isaac Adam Gendler
Critical Water, Wastewater, and Thermal Infrastructure Development for a Resilient Neighborhood in War-Affected Ukraine

Bibi Khadija Ghanizada
Shifting Spaces: Housing and Urban Change in Kabul

Shubhi Goyal
Financing Infrastructure Resilience: The Case of Ghana

Alula T. Hunsen
Producing a Black Oeuvre: Narratives of Black Grassroots Cultural Organizing in Boston

Sara Lynn Jex
From Vacant to Valuable: Building Community Wealth through Brownfield Redevelopment in Legacy Industrial Cities

Brooke Xuer Jin
Toward a Political Economy of the Power Sector: Green Capitalism, Eco-Socialism, and Co-Operative Power in Decarbonized Climate Policy

Rubin Zane-Ray Jones
Ozarkitecture: Shaping the Sense of a Region

William James Jones
Conjuring Reality: Gullah Geechee World-Building and Cultural Memory in XR

Seamus Cook Joyce-Johnson
(See also S.M., Transportation)
Enabling Car-Free Living: Shared Micromobility and Public Transit Interactions in Chicago

Samantha Lynn Kaufman
Oakland's Preservation Park: Planning for the Future

Yvette Miriam Kleinbock
Co-Governing Care in Astoria, Queens: The Role and Responsibility of the City in Supporting Community-Led Solidarity Networks

Trevor Quigley Kodzis
Between Fields and Cities: The Politics of Land Use Changes in Punjab, India

Nikita Sanjay Kulkarni
Decentralizing Power: Enabling Local Energy Resilience and Equity in Accra

Aulia Kurniaputri
Prioritizing Sidewalk Accessibility Improvements for the Aging Population and Individuals with Disabilities: A Case Study of Bandung, Indonesia

Namhi Kwun
(See also S.M.Arch.S., Course IV)
Burning S(e)oul: A Body for Cremation

Yu Hang Leung
(See also S.M., Real Estate Development)
Contested Values of Eco-Developments: Leveraging Private Finance to Integrate Biodiversity into Nusantara's City Development Framework

Sungmoon Lim
(See also S.M., Course VI)
Data-Driven Assessment of Digital Age Inclusion: Topic Modeling Seoul's Digital Governance Platform to Evaluate Elderly Representation

Alejandra A. Martinez
Envisioning Regional Futures in Southeast Los Angeles: Understanding Barriers to Implementing Transit-Oriented Communities along the Forthcoming Southeast Gateway Line

Gabriella D. Martini
(February, 2025)
You Can't Suspend the Movement: Chronicling the History of a Campus Organizing Movement in Action

Menatalla Hassan Abdelfattah Mohamed
From Silence to *Sankofa*: The Role of Archives in Addressing Urban Renewal's Displacement History

Daniela Morales
Public Health Governance at the Watershed Scale: Exploring Opportunities for Multi-Sector Governance to Advance Planetary Health in Northeastern Massachusetts

Emily Nell Moss
(See also M.B.A., Course XV)
Implementing a Digital Common Application for Affordable Housing in Massachusetts

Sanjana Paul
Community Benefits Agreements for Equitable Renewable Energy Siting: The Importance of Negotiation Power and Stakeholder Engagement

Natalie Anne Phillips
"Whose Bronx?" Regime Politics and the Evolution of Community Power at the Kingsbridge Armory

Yuri Sakai
Wildfire Risk Management for Informal Settlements in Chile

Maysaa Osama Mohamed Sati
Navigating Identity and Place: The Role of Displacement Camps in Community Rebuilding and Identity Preservation in Sudan

Aika Shikida
Pedestrian Accessibility and Individual's Subjective Happiness

Alessandra Danielle Smith
Reimagining the Role of City Owned Assets as Multifunctional Infrastructure: Serving Community Needs Through Collaboration

Mistaya Skylynn Smith
The Path Forward: Gentrification Management Strategies in Rural Trail-Based Outdoor Recreation Economies

Jessie Ann Bylenga Tagliani
Evolving Concepts of the Public Interest in Comprehensive Planning

Archer Rhys Thomas
An Economic Reevaluation of Navi Mumbai and the Indian Satellite City

Cale Wagner
Breaking the Loop: Climate-Driven Urbanism for America's Climate Migration Hubs

Nicole Kelly Wong
Ensuring Equitable Tenant Outcomes: Case Studies of Building Decarbonization Initiatives in Greater Boston, Massachusetts

Xi Wu
(See also S.M., Real Estate Development)
China Dispossession Watch

Cindy J. Xie
Understanding Climate Change and Human Health Interactions in Santiago Island, Cabo Verde through Multi-Stakeholder Literacy and Education

Ziqing Xu
Analyzing Risks in Voluntary Forest Carbon Offsets Using Open Data: A Hybrid Framework Integrating Retrieval-Augmented Generation in LLMs and Geospatial Analytics

Mabelle Zhang
Still Working: Re-Examining America's Urban Working Waterfronts

Manal Zia
Who Builds, Who Belongs: A Critical Framework for Analyzing Urban Reconstruction Proposals

Master of Science in Urban Studies and Planning

Course XI
Department of Urban Studies and Planning

Claudia Dobles Camargo
Critical Vulnerabilities of AI in Latin America

Ruixian Ma
Transforming Geospatial Textual Data into Narrative Storytelling Visualization

Cadine Louise Navarro
City as Seed: The Urban Resonance Field and the Case for Sonic Awareness in Ecological Renewal

Master of Science in Media Arts and Sciences

Program in Media Arts and Sciences

Dexter Eugene Callender III
(September, 2024)
Matters of Illuminance: Transforming Light into Material Artifacts

Karishma Chadha
(September, 2024)
Imagine Yourself: Explorations in Fostering Personal Expression with Generative AI

Manuel Cherep Dragoevich
(September, 2024)
Listening by Synthesizing

Aniruddha Ghosh
(February, 2025)
Structural Wireless Delamination Sensor

Lennart Johannes Justen
Advancing Biosecurity in the Age of AI: Integrating Novel Detection, Suppression, and Evaluation Approaches

Yubin Kim
(February, 2025)
Healthcare Agents: Leveraging Large Language Models for Wearable Health Prediction and Decision Support

Cassandra Lee
(September, 2024)
Beyond-the-Ice: Designing Games for Facilitating Deeper Conversations

Jiajie Chance Li
Agent City Hall: A Simulacrum Guiding Dynamic, Equitable, and Sustainable Urban Regulation with Generative Agents

Yuqing Li
BioLIG: Designing Biologically Derived Electronics and their Speculative Lives

Jessica Rachel Mindel
(September, 2024)
Designing for Connection with Inner Processes

Paris Gabriella Myers
Materializing Light: Real-time, Handheld Fabrication of Programmable Structural Color

Daniel Gene Pillis
(September, 2024)
Temporal Telepresence: Telepresence Across Time

Isabella Miranda Pu
Interactive Storybooks for Early AI Literacy

Jessica Shand
(September, 2024)
Timbral Transformations

Wing Cheung Michael Wong
Delibrary: From Discussion to Outcomes and Back(casted) Again, a Visualization Tool for Deliberative Assemblies

Ahmed Sami Zikrallah
(September, 2024)
Towards a Single Bio-Molecule Detector Based on CMOS Nanofluidic Platform

Master of Science in Media Technology

Program in Media Arts and Sciences

Erick Olusoji Oduniyi
(February, 2025)
Intuitive Audio Interaction and Control in Multi-Source Environments

Master of Science in Real Estate Development

Center for Real Estate Development

Soala Lolia Ajienka
(See also M. Arch., Course IV)
Face Me, I Face You: Towards an Indigenous Economy of Glass in Southern Nigerian Dwellings

Vladimir Bogdashkin
Digitizing the Residential Real Estate Market in North America: A Market Analysis

Faith William Cerny
(See also M.C.P., Course XI)
Accelerating Mass Timber Adoption in Greater Boston, Massachusetts: A Practical Study for Local Real Estate Developers

Kibong Wongi Cho
(September, 2024)
Lessons From President Moon Jae In's Housing Policy and The Road to Affordable Home Ownership in Seoul, South Korea

Moohyun Cho
(September, 2024)
Analysis of Seoul Apartment Prices During Population Decline Era

Lu Dai
The Role of EB-5 Funds in Real Estate Financing and Recommendations to Support EB-5 Program Efficacy

Robert Logan Fawcett
(September, 2024)
The Contours of the Cloud: Dissecting the Real Estate Investment Decisions of Data Center Operators

Pegah Ghasemlou
(February, 2025)
Examining the Economic Impact of Anti-Warehouse Development Policies in California: A Case Study of the San Diego Market

Adam Wesley Grounds
(February, 2025)
Bringing Back The Junction House: A Case Study on New England Village Center Redevelopment as a Catalyst for Revitalization and Carbon Reduction

Shenglin Huang
(February, 2025)
For and Beyond the Plaques: Sustainable Certification Adoption and its Impact on Real Estate Decision-Making in the Boston-Cambridge Market

Ocean Saleem Jangda
Urban Technology

Kailin Jennifer Jones
Manufactured Housing as Pathway to Homeownership

Reem Zouheir Kseibati
(February, 2025)
Cooling Innovation and Circularity: Addressing Water Stress in the Age of AI-Driven Data Centers

Donghyun Lee
(February, 2025)
Environmental Impact of Data Center Development

Yu Hang Leung
(See also M.C.P., Course XI)
Contested Values of Eco-Developments: Leveraging Private Finance to Integrate Biodiversity into Nusantara's City Development Framework

Viet Hoang Nguyen
(February, 2025)
Shut Up and Dribble? Exploring the Real Estate Strategies and Trends of NBA Teams

Suhyeon Park
(February, 2025)
Future of the Workplace

Nadra Alia Peragallo
(February, 2025)
Empowering Place: Unlocking Value for Investors by Integrating Indigenous Values in Luxury Hospitality

Richard Scott Poirier
(September, 2024)
A Case Study in Marketing a Real Estate Debt Fund through the Design and Preparation of a Private Placement Memorandum (PPM) and Investor Presentation

Zachary David Proman
(February, 2025)
A Business and Redevelopment Outline for the Re-Use of a Prime Site in South Boston

Neal P. Schutt
(September, 2024)
Location, Location, Substation? How Battery Energy Storage Systems (BESS) Can Create Value in Unexpected Places

Xi Wu
(See also M.C.P., Course XI)
China Dispossession Watch

Cunjia Xu
(February, 2025)
Using AI to Refine Hedonic Model

Yujian Xu
(September, 2024)
Do High Street Retail Rents Align with the Economy? An Analysis of Retail Real Estate Pricing Dynamics Based on Macroeconomic Trends

Yu Yan
(February, 2025)
Navigating RAD Conversions: Suggestions for Public Housing Rehabilitation

Junsi Yang
(February, 2025)
Evaluating Chongqing Tiandi Project: An Asset Management Perspective

Master of Science (without specification of field)

Gauri Agarwal
Med. Arts & Sciences
Next Week Tonight: Simulating Counterfactual Narratives of the future using Agentic Knowledge Graphs

Sarah Barreto Ornellas
Med. Arts & Sciences
GUIDE-Immuno: Glioblastoma Ultrasonic Injection Device for Enhanced Immunomodulation

Samantha Chin
Med. Arts & Sciences
(September, 2024)
Techniques for Pushing the Limits of Human Perception

Wenya Du
Med. Arts & Sciences
(September, 2024)
Piezoelectric Single Crystal Based One-Dimensional Phased Array for Breast Tissue Imaging

Alan Han
Med. Arts & Sciences
Volume Mount Devices

Nelson Hidalgo Julia
Med. Arts & Sciences
Interpretable Facial-Vocal Signals of Depression in a Large-Scale Mobile Study

Geetha Jeyapragasan
Med. Arts & Sciences
(September, 2024)
Risk-Benefit Assessment of Pandemic Virus Identification

Tsung-Han Lin
Med. Arts & Sciences
(September, 2024)
Multi-Bounce Returns for Specular Surface Mapping from Consumer-Grade Flash LiDAR

Nathaniel McEwan Perry
Med. Arts & Sciences
IP Networks Over Heterogeneous Embedded Serial Links

Georine Yole Pierre
Med. Arts & Sciences
(February, 2025)
Urban Mining & Regenerative E-Waste Ecosystems: Visions Towards Sustainable Entrepreneurial Futures for Informal Settlements and Recycling Communities

Elinor Grace Poole-Dayan
Med. Arts & Sciences
From Dialogue to Decision: An LLM-Powered Framework for Analyzing Collective Idea Evolution and Voting Dynamics in Deliberative Assemblies

Vera Judith van de Seyp
Med. Arts & Sciences
(September, 2024)
Tomorrow's Typography

Wen-Xin Xiao
Med. Arts & Sciences
(September, 2024)
Last-Meter Delivery: Solving the Unattended Delivery Challenge from Streets to Doorsteps

Hao-Tung Yang
Med. Arts & Sciences
Wireless Magnetoelectric Interfaces for Biomedical Applications

SCHWARZMAN COLLEGE OF COMPUTING

Master of Science in Computational Science and Engineering

Program in Computational Science and Engineering

Abdulrahman A A Alabdulkareem
(September, 2024)
(See also S.M., Course VI)
Safe and Secure Large Language Models

Vaibhav Kumar Dixit
Traversing Rugged Domains: Explorations in Non-Convex Optimization Theory and Software

Sebastian Andres Gallo
(September, 2024)
Optimizing Computational Efficiency for Real-Time Brain Dynamics Monitoring in ICU Patients: Enhancing State Space Global Coherence for EEG Analysis

Natasha K. Hirt
(See also S.M.Building Tech., Course IV)
Structural Analysis at Scale: Computational Modeling of Embodied Carbon in Complex Floor Layouts

David Jin
(September, 2024)
State Estimation in Dynamical Robotic System with Non-Gaussian Noise

Adriana Ladera
(February, 2025)
Accelerating the Discovery of Novel Metal Organic Chalcogenolates: A Computational and Machine Learning-Driven Approach

Shania Mitra
Accurate Protein Function Prediction with Graph Transformer-Based Function Localization

Evelyne Pélagie Ringoot
(September, 2024)
Implementing a Tiled Singular Value Decomposition: A Framework for Tiled Linear Algebra in Julia

Kaira M. Samuel
Continual Learning Applications for Engineering Problems

Changxiao Shen
High-Order and Wavelet-Adaptive Immersed Methods for PDEs on Complex Domain Geometries

Erkin Emiel Verbeek
(September, 2024)
Accelerating Astrophysical Simulations with GPUs: A Case Study of Radiative Transfer in AREPO-RT

Kevin Yu
Enabling Starting Material-Oriented Strategies in Computer-Aided Synthesis Planning with a Bidirectional Search Algorithm

Ting-Ying Yu
Constrained and High-Dimensional Bayesian Optimization with Transformers

Master of Science in Social and Engineering Systems

Program in Data, Systems, and Society

Rui Ai
Problem-Independent Regrets on Expectation-Dependent Multi-Armed Bandits

Kaveh Alimohammadi
Differentially Private Synthetic Data Generation for Relational Databases

Chenhui Zhang
VLEO-Bench: A Framework to Evaluate Vision-Language Models for Earth Observation Applications

Master of Science in Technology and Policy

Institute for Data, Systems, & Society

Adam Kassim Ali
Impact of 24/7 Carbon-Free Energy Procurement

Lisa Z. Baer
(See also S.M., Course VI)
Privacy-Preserving Collaborative Cyber Risk Modeling

Ellie Frances Baker
A Bill of Assumptions to Improve Data Production and Transparency

Nirmal Kalpesh Bhatt
(February, 2025)
(See also S.M., Course VI)
The Missing Megawatts Problem: Improving Modeling Practices to Prepare for an Uncertain Future

Seth Daniel Blum
Geographic Scale and Peak Power Loads from Heat Pump Adoption

Sergio Yael Cervantes Gil
Small Stores, Big Obstacles: Understanding Constraints and Opportunities for Micro-Retail Firms

J. Alvin Chen
Preserving Human Autonomy in AI-Mediated Negotiations

Christopher Converse Colcord
Assessing Opportunities to Reduce Carbon Dioxide Emissions from Electric Arc Furnace Steelmaking in the United States

Chelsea Foushee Conard
(September, 2024)
Data-Informed Policy

Yifei Duan
(See also S.M., Course VI)
AI-Powered Data Mining for Sustainable Concrete

Ethan Clarke-Hampton Harrison
(See also S.M., Course VI)
Heating Up: Are Energy Price Shocks a Root Cause of Conflict and Instability

Amy Huynh
(See also S.M., Course VI)
Sustainable Engineering of Polyethylene Fiber Materials: Advancing Functional Properties of Diverse Textile-Based Structures

Minseok Jung
(February, 2025)
Decoding Computational Text Generation: A Policy Framework

Nadia Rehman Khan
Towards a Circular Lunar Economy: Embedding Reusability into the Design of Lunar Landers and Rovers

Clara Ziran Ma
(See also S.M., Course XVI)
Emissions Impacts of Future Launch Industry

Estelle Claude Aline Martin
(See also S.M., Course XVI)
Global Sustainable Aviation Fuel Production Potential from Current Agricultural Production: A Holistic Data Analytics and Systems Analysis Approach

Carissma Lakia McGee
(See also S.M., Course XVI)
Mass and Distance Estimation Simulations for the Nancy Grace Roman Space Telescope Using PyLIMASS and A Case Study on Intellectual Property Frameworks in Space Collaborations

Pragya Neupane
(See also S.M., Course VI)
Analyzing Inconsistent Results of Table Transformer for Improved Data Extraction in Childhood Obesity Intervention Literature

Connor Daniel Rude
Characterizing Effective System Architectures for Cislunar Space Situational Awareness

Shayaan Syed Subzwari
(See also S.M., Course XXII)
Neutron Resonance Transmission Analysis of Nuclear Material for Reactor Safeguards Applications

Maria Eleni Velonia Bellonia
Mapping Workforce AI Optimism: Factors that Shape Workers' AI Outlook in Different Regions with a Focus in the US and Europe

Sarah R. Wertheimer
(September, 2024)
Looking at the Map, Together: Modeling Treatment Center Location Selection and its Effects on Access to Gene Therapy in Brazil

Finnian Ellis Westenfelder
(See also S.M., Course VI)
LLM-Supported Natural Language to Bash Translation

Benjamin Wettstein
Policy and Technical Frameworks for Autonomous Offensive Military Cyber Operations

SCHOOL OF ENGINEERING

Master of Engineering in Civil and Environmental Engineering
Course I-P
Department of Civil and Environmental Engineering

Edie Berlyn Blaze
Numerical Analysis of Human-Informed Topology Optimized Lateral-Load-Resisting Systems of Tall Buildings under Seismic Excitation

Ming Chen
Peatland Burning Identification Among Other Wildfires Across Different Ecozones in Canada

Joy P. Domingo-Kameenui
Estimating Aboveground Biomass (AGB) Throughout the Pacific

Fred Fayad
Machine Learning for the Condition Assessment of Concrete Bridges

Anouk Eloise Fontaine
Stock-Constrained Design of Pseudo-Standard Walls from Studs Offcuts

Christoph Gerken
Exploration of Design Strategies and Optimization for Efficient Mass Timber Structures as a Function of Column Position

Darshdeep S. Grewal
Scaling Carbon-Cement Supercapacitors for Energy Storage Use-Cases

Bradley Allen Hashbarger
Beam Mechanism Failure in Multistory Steel Frame Structures

Yu-Hsuan Hsu
Metabolic Scaling Analysis of Building Energy Efficiency: A Case Study of Massachusetts Institute of Technology

Katherine A. Kitzinger
Response of Arabidopsis to Bacterial Presence under Iron Stress

Patricia King Lee
Optimal Design of Parallel Chord Trusses under Uniform Load

Daisy Ren
Impact-Induced Bridge Failures: Analyzing Structural Vulnerabilities and Optimizing Pier Designs for Enhanced Resilience

Yu-Tong Shao
Agricultural Waste Utilization: Life Cycle Assessment for Selecting Carbon-Management Best Practices on a Global Scale

Sophia Josephina Catharina Stribos
Structural Engineering Model of Irregular and Efficient Concrete Beams: Application to Topology Optimized Shapes and Integrated Textile Reinforcement

Nithyaharini Suresh
Optimization of Renewable Energy Siting Decisions through Vertical Axis Wind Turbine Integration

Lana Elise Van Note
A Comparison of Theoretical and Actual Coumarin Exudation under Iron Limitation to Understand Passive Exudation Mechanics

Ria Verensia
Soil Moisture Dynamics and Thresholds for Surface Energy Balance Regime Transitions: An Observational Analysis at a U.S. Grassland Site

Zikang Wang
Data Acquisition for Enhancing Human-Informed Topology Optimization

Mengyuan Eileen Zhang
Interactive Topology Optimization with Hybrid Truss and Continuum Elements Types

Yingjia Zhuang
Integration of Zip-Formwork and Conventional Formwork Systems for Shape-Optimized Concrete in Large Scale Construction

Master of Science in Civil and Environmental Engineering
Course I
Department of Civil and Environmental Engineering

Shreeansh Agrawal
(See also M.B.A., Course XV)
Machine Learning Methods for Churn Prediction and Infrastructure Resilience

Trevor Wesley Cambron
Nutrient Modulation of the Terrestrial Carbon Sink under Global Change: Integrating Evidence from Experimental Manipulations of CO2 and Temperature

Julie Chong
(See also M.B.A., Course XV)
Safety Stock Modeling for a Medical Devices Supply Chain

Isabella Danielle DiDio
(See also M.B.A., Course XV)
Impact Evaluation and Prioritization Framework for Manufacturing Inspection Technology Investment

Andrew Dorsey Epstein
(See also M.B.A., Course XV)
Decarbonization of Gas Heating in Massachusetts: An Evaluation of Current Trends and Opportunities

Andrew David Fenstermacher
(See also M.B.A., Course XV)
Investigation into Sources of Volatility in Sortation Center Processes to Improve Productivity and On-Time Delivery

Robert Henry Fetell
(September, 2024)
Comparison of Finite Element Methods and Satellite InSAR for Monitoring Deformations of a Large Tailings Dam

Yutao Gong
(See also M.B.A., Course XV)
Forecasting Automotive Production Using Theta Model

Carlos Daniel Gosen Cappellin
(See also M.B.A., Course XV)
Developing a Data-Driven Approach to Reducing Excess Inventory in a Multi-Echelon Supply Chain

Mohit Sanjay Kasliwal
(See also M.B.A., Course XV)
An Integrated Optimization Model for Large-Scale EV Fleet Deployment: Balancing Emissions Reduction and Operational Costs

Amanda Marie Mackie
A Gnotobiotic Technique for Co-Culture of Plants and Microbes on Phosphated Iron Oxides

William Paul McNulty
(See also M.B.A., Course XV)
Standard Work for High-Mix Low-Volume Operations

Baraka Wilnest Fares Minja
(See also M.B.A., Course XV)
Design & Optimization of Shipping Container for Package-Less Units

Rose-Marie Neufeldt
Investigating the Capacity of Generative AI to Learn Genotype-by-Environment Interactions in Brachypodium Distachyon

Olanrewaju Damilola Oludipe
(See also M.B.A., Course XV)
Optimizing Inventory Rebalancing: Strategies for Managing Excess Inventory in a Dynamic Supply Chain

Haoting Pan
(See also M.B.A., Course XV)
Analyzing Procurement Data for Cost Saving Application

Jennifer Elyse Ray
(See also M.B.A., Course XV)
Hydrogen Adoption Dynamics: A Flexible Modeling Framework for U.S. Industrial Applications

Julia Sarita Sircar
(See also M.B.A., Course XV)
Process Optimization and Proactive Quality Control to Increase Investment Casting Throughput

Master of Engineering in Advanced Manufacturing and Design

Course II-P
Department of Mechanical Engineering

Michael James Donnellan
(September, 2024)
Development and Execution of a Testing Strategy for Omni-Directional Wheels

Marie Fillon
Development and Implementation of a Smart Factory for Educational Fiber Extrusion Device Production

Kaili Glasser
(September, 2024)
Refining Hardware of Desktop Fiber Extrusion Devices for Affordable Manufacturing and Novel Fiber Prototyping

Kayra Berk Ilkbahar
Development of an Apparatus and Testing Strategy for Characterizing Rolling Resistance of Omnidirectional Wheels

Sarvagnya Kompella
(September, 2024)
Enhancing Roll Form Bending Processes through Experimentation and Informed Predictive Analysis: A Strategic Approach to Optimize Tooling

Joo Won Lee
(September, 2024)
A Design Study Using Simulation Techniques in Roll Form Production

Kanishk Pal
(September, 2024)
Developing Discrete Machine Connectivity Guidance: Enhancing Automated Equipment Monitoring and Production Information Tracking

Rachael Sarah Rosko
(September, 2024)
FrED Manufacturing: A Study in Affordable Manufacturing to Scale using Desktop Sized Fiber Extrusion Device

Rohan Sanjay Sanghai
Analyzing Vibration in Omni-Wheels: A Design of Experiments Approach to Optimizing Omni-Wheel Selection

Kenan Hayel Sehnawi
(September, 2024)
Implementation of Machine Connectivity Solutions for Automated Manufacturing

Brandon Christopher Sun
(September, 2024)
Machine Connectivity Driving Continuous Improvement in Manufacturing Industries

Omar Talal
(September, 2024)
The Impact of Process Substitution on Manufacturing Costs: A Comparative Analysis of Sheet Metal Forming versus Extruded Steel Cutting

Chenyu Yuan
(September, 2024)
The Impact of Process Replacement on Sheet Metal Product Design: The Use of Steel Extrusions Versus Formed Sheet Metal

Yiqian Zhang
(September, 2024)
Affordable Fiber Extrusion Device for Educational Purposes: Design Improvements, Controls Development, and Manufacturing Scale-up

Master of Science in Mechanical Engineering

Course II
Department of Mechanical Engineering

Matthew Christopher Ahlers
(See also Naval E., Course II)
Path Planning for Autonomous Sailing Vessels: Developing Robust and Efficient Survey Strategies

Eunice Aissi
(September, 2024)
Design and Development of an Accelerated Material Synthesis Platform for Automated Materials Research

Ethan Taylor Almquist
Behavioral Methods for Next Generation Shipboard Power System Simulation: Letting SPARCS Fly

Domitille Avalle
Towards the Early Detection of Ovarian Cancer: A Shear Stress Approach for Locally Collecting Cells

Layal Ayman Barakat
(February, 2025)
Impact of Introducing Technical Design Elements in Makerspace Trainings

Natalie Ann Basnight
(February, 2025)
The Use of System Theoretic Process Analysis (STPA) on Novel Tilt Rotor Aircraft to Prevent Mode Confusion

Maheera Bawa
Enhancing Performance of 2D Skeletal Muscle-Powered Robots

Priya Darshini Bhirgoo
(See also M.B.A., Course XV)
Evaluating the Feasibility of Electrified Process Heating for Drug Substance Manufacturing

Andrew Devon Blair
(September, 2024)
Tailoring the Angular and Spectral Reflectance Characteristics of Color-Dynamic Films by Modifying Their Photonic Texture and Topcoat Roughness

Conor Scannell Briggi
(See also M.B.A., Course XV)
The Value of Digitizing Manufacturing Environments

Braden Corrigan Brower
(See also S.M., Engineering and Management)
Destructive Behaviors in Naval Shipyards: A STAMP and System Dynamics Analysis

Michael J. Burgess, Jr.
Incorporating High-Resolution Tactile Perception for Performative and Generalized Robotic Manipulation through Compliance Estimation and Hardware Design

Gi Hyun Byun
(February, 2025)
CO2 Capture with Lithium Oxide in Molten Salt Media: A Case Study of CO2 Capture via Electrochemically Produced Metal Oxide

Nina Yuanyuan Cao
(February, 2025)
Integrated Multi-Modal Sensing in Soft Robotic Ciliary Arrays

Alix Merriam Carson
(See also M.B.A., Course XV)
A Data-Driven Work Center Assignment and Pricing Strategy for a Job Shop

Andrew Yen-Jong Chen
(September, 2024)
Mechanics of Three-Dimensional Micro-Architected Interpenetrating Phase Composites

Inbar Chityat
Multimodal Non-Contact Sensing of Neonatal Vital Signs Using Radar and Video

Jinger Sia Chong
Probabilistic Human Arm Motion Prediction via Structured Multitask Variational Gaussian Processes for Safe Human-Robot Collaboration

Jeffrey Dennis Costello
(September, 2024)
Development of a Computational Tool for Simplifying Engineering Tradeoff Analysis for the Design of Cost-Optimized, Time-Variant, Electrodialysis Reversal Desalination Systems

Madeline Ruth Dubelier
(See also M.B.A., Course XV)
Systems Approach to Component Code Optimization for Wound Closure Portfolio

Andrew Daniel Dugan
(See also M.B.A., Course XV)

David James Edington
Minimal Constraint and Precision Placement in Life Cycle Testing of Electrical Contacts

Michael Alberto Espinal
Understanding the Structure-Property Relations of Spinodal Architectures Under Large Deformations

Rafael L. Estrella
(September, 2024)
Friction Characterization on Lubricant Infused Solids for Precision Lubrication

Samuel David Figueroa
(February, 2025)
Programmable Microgranular Materials with Hierarchical Architecture

Katana Rain Finlason
Incubators for Species Exhibiting Temperature-Dependent Sex Determination: Applications to Hawksbill Sea Turtles in Rising Ambient Temperatures

Paige O. Forester
(February, 2025)
Precision Pointing for the CubeSat Laser Infrared CrosslinK (CLICK) Mission

Jeremy Brian Garber
(See also M.B.A., Course XV)
Minimizing Cost of Intra-Yard Finished Vehicle Logistics Through Automation and Optimization

Jesse P. Garcia de Alva
(February, 2025)
Development of Dual Extruder Biomaterial 3D Printer

Adam Ryan Gebner
(See also M.B.A., Course XV)
Optimizing Raw Wire Inventory Management: A Data-Driven Approach to Demand Forecasting and Supply Chain Decision Support

Jacob Robert Gerbino
(See also M.B.A., Course XV)
Economies of Space: Developing a Lean Manufacturing Framework for Work Center Floorspace Reduction

Gretel Scarlet Gonzalez Martinez
(See also M.B.A., Course XV)
Expanding Home Broadband Coverage through Existing Low Earth Orbit Megaconstellations

Jeffrey Michael Hall
Solar-Powered Critical Cooling: A Theoretical Feasibility Study for Human Thermal Regulation

David E. Hernandez
(September, 2024)
Heat Pipes for the Thermal Management of High Frequency Transformers in the Navy Integrated Power Electronics Building Block

Stephanie Thein Hoo
Hydrodynamic Behavior of Pop-Up Satellite Archival Tags (PSAT) Subject to Vortices

Lianming Hu
Electrooculography Gaze Tracking for Free-Move Method

Dingcheng Huang
Towards Multimodal Streaming Perception: A Real-Time Perception Scheduling Framework Based on Relevance

Christopher Robertson Johnson
(See also M.B.A., Course XV)
Optimizing Automotive Production Scheduling to Reduce Finished Vehicle Inventory

Matthew Douglas Johnson
(February, 2025)
Microfluidic Platform for Vascularized Tissue Models

Julie Elizabeth Johnston
Modeling the Impact of Helicopter Vibrations on the Musculoskeletal Health of US Army Aviators

Adam Kyoungmin Kim
(February, 2025)
Design Concepts for High-Acceleration Linear Actuators for Precision Motion

Beomjun Kim
Distinct Roles for Energy Storage and Transmission Infrastructure in a Renewables-Based Electric Power System

Donghyun Kim
(February, 2025)
Forecasting the Lift of a Randomly Maneuvering Airfoil under Dynamic Stall Conditions, Re ~ 10^5

SeongHyeon Kim
Real-Time Wearable Ultrasound Hand Tracking System: Continuous 22-DOF Estimation and Robust Prediction for Fine Motor Tasks

John Anthony Kimmeth
Wedged Vortex Generator Applications for Marine Vessels

Rachael Auline Knapp
(See also M.B.A., Course XV)
Electric Vehicle Fleet Charging: A Simulation-Based Comparison of Charging Strategies and Cost Implications

Yehoon Lee
A Magnetic Levitation Testbed for Development of Real Time Control Frameworks Applied in Fusion

Ian Gunn Lindberg
Fluid Sealing Challenges in Solid Oxide Electrolysis Cells and Rapid Swap Battery Systems

Carly Erin Long
Cardiovascular and Intracerebral Device Design and Test Method Development

Amna A. Magzoub
(See also M.B.A., Course XV)
Design Transfer as a Lever for Accelerated Medical Device Innovation: A Case-Based Mapping Approach

Daniel Maldonado Naranjo
Adaptive Control of a Dubins Vehicle in the Presence of Loss of Control Effectiveness Subject to Input and State Constraints

Maxwell Xavier Malinowski
(See also M.B.A., Course XV)
Data, Analytics, and Optimization for Production Planning

Alejandro M. Martinez
(September, 2024)
Sensitivity Analysis of Self-Loosening Behavior for Mesoscale Bolt Assemblies under Cyclic Lateral Loading

Harvey Merton
(September, 2024)
State and Dynamics Estimation in an Outdoor Multi-Drone Slung Load System

Armando Rodrigues Carneiro Neto
(February, 2025)
Exploring Liquid LiTFSI-based Electrolytes through Dielectric Relaxation Spectroscopy

David Harrison Nguyen
Model Predictive Control Approaches for Dynamic Table Tennis Swinging

Charmaine Nieves
A Fast Assay of Bacteria Cell Permeability for Genetic Transformation

Jorge A. Nin
(September, 2024)
Design, Simulation, and Testing of a Low Cost Laser Micromachining System for Flexible and Rapid Tissue-on-Chip Fabrication

Michael Louis Norwalk
(See also M.B.A., Course XV)
Decarbonized Cement Manufacturing via Advanced Production Technologies

Ozioma Ozor-Ilo
(September, 2024)
Investigating the Illusion of Wetness: Cold Dry Stimuli in Sensory Perception

Vineet Padia
(September, 2024)
Cellulose Nanofoams: 3D Printing and Characterization

Andrew T. Palleiko
Design and Evaluation of Skill-Based Imitation Learning Policies for Robotic Manipulation

Erik Jeffrey Pryal
Evaluation of Universal Docking Solutions for Autonomous Underwater Vehicles

Camille Dyani Rodriguez
Impact of Vimentin Intermediate Filaments on 3D Multicellular Collective Behavior

Catalina Romero
Design and Commercialization Strategy of a Gantry-Based Automation Platform for High-Throughput Raman Spectroscopy

Laura M. Rosado
(February, 2025)
Characterizing Engineered Skeletal Muscle Rings as Actuators Using Strain Sensing Methods

Ronak Roy
Permanent Magnet Synchronous Motors: Nonlinear Dynamic Modeling, Hardware Characterization, and High-Bandwidth Torque Control for Applications in Dynamic Robotics

Emma K. Rutherford
(September, 2024)
Design of a Precision Needle for Injection of Fluid into the Suprachoroidal Space of the Eye for the Treatment of Retinal Detachment

Jason M. Salmon
Control and Aerodynamic Design of a Solar Road Vehicle with Articulated Surfaces

Laura A. Schwendeman
Developing a Functional In Vitro Model of the Neuromuscular Interface

Shweta Sen
(See also M.B.A., Course XV)
Multi-Objective Optimization of Container Load Plans for Modulating Inventory Flow

Mark Patrick Serbent
(See also M.B.A., Course XV)
Network Preparations for Networked Geothermal

Sharmi M. Shah
Barometer Based Tactile Sensing - Characterization, Processing, and Applications for Dynamic Manipulation

Alex Sirgo
(See also M.B.A., Course XV)
A Techno-Economic Assessment of Hybrid Renewable Energy and Battery Storage Systems for Data Centers

Jessica E. Sonner
Turning and Turbulence: A Comparative Study of Agility and Fluid Mechanics in Men's and Women's Soccer

Pascal Daniel Spino III
Exploiting Shadows and Physical Interactions in Magnetic Modular Robots

Stamatios Stamatelopoulos
Can Diffusion Models Capture Extreme Event Statistics?

Natasha Lia Stamler
Understanding the Limits of Coupled Condensation and Desorption in Sorption-Based Atmospheric Water Harvesting Devices

Filip Traasdahl Strømstad
Decentralized Declustering of Multiple Underactuated Autonomous Surface Vehicles

Alexandra Tamburro
An Experimental Study on the Effects of Three-Piece Oil Control Ring Design and Liner Finish on Lubricating Oil Consumption in a Hydrogen-Fueled Single-Cylinder Reciprocating Engine

Jasmine Guin Terrones
(September, 2024)
Application of Koopman Operator Theory to Legged Locomotion

Gabriella E. Ulloa
DexWrist: A Robotic Wrist for Constrained and Dynamic Manipulation

Brendan Michael Unikewicz
(February, 2025)
An Instrument for the Measurement of Soft Material Nonlinear Mechanical Response

Eric Kevin Wang
Planning for Dynamic Nonprehensile Object Transport

Abigail Elizabeth Wucherer
Development of Mechanical and Electrical Interfaces for Rapid Swap Battery Systems

Tiffany Jane Xi
(See also M.B.A., Course XV)
Metal Additive Manufacturing Capabilities for Footwear Prototyping and Product Creation

Lale Yılmaz
(September, 2024)
Development of Elastic Resistive Force Theory & Applications to Uprooting

Aaron Ross Young
(February, 2025)
Designing Visual Intelligence from Photons to Action

Rui Zhou
(February, 2025)
Enabling AI Copilots for Engineering Design through Multimodal Generative AI

Master of Science in Naval Architecture and Marine Engineering

Course II
Department of Mechanical Engineering

Maxwell Calvin Buchanan
Combating Corrosion and Monitoring Microgrids on Coast Guard Patrol Boats

Robert Brandon Mannier
(See also Naval E., Course II)
Tension-Leg Platform for Offshore Diffusor-Augmented Hydrokinetic Turbine

Thomas Jeongho Song
(September, 2024)
(See also S.M., Course VI)
Experimental Evaluation of Underwater Semantic SLAM

Master of Science in Materials Science and Engineering

Course III
Department of Materials Science and Engineering

Sophie C. Coppieters 't Wallant
Investigating the Use of Copper Mine Tailings in Cementitious Systems

Derek T. Gess
Maximizing Flexibility and Efficacy of Undersea Wireless UAV Power Transfer Systems

Christian O. Plaza Rivera
(February, 2025)
Concentration-Dependent Thermodynamics and Kinetics in Lithium-Metal Battery Electrolytes: Implications for Coulombic Efficiency

Lokesh Sangabattula
(February, 2025)
Geological Hydrogen through Serpentinization: Physical Characterization of Ultramafic Rocks and Innovative Techniques for Sustainable Hydrogen Production

Master of Engineering in Electrical Engineering and Computer Science

Course VI-P
Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Raza S. Abbas
(February, 2025)
Revolutionizing Educational Assessments in Correctional Facilities: Leveraging Large Language Models for Verbal Aptitude Evaluation

Ayyub Abdulrezak
Campus-Wide Piano Data Collection and Visualization

Nishant Abhangi
(September, 2024)
Red Teaming Language Conditioned Robotic Behavior

George Abu Daoud
Modeling Human-Informed Variables in Medical Data

Pedro Leonardo Acosta De León
Developing an Adaptive Sampling Planner as a Domain-Independent Tool

Muhammad Ashhad Alam
(September, 2024)
Building a Scalable Electrification Infrastructure in Logistics

Sabiyyah Ali
(February, 2025)
Non-Blocking Work Stealing Scheduler

Shaden Naif K Alshammari
A Unifying Framework for Representation Learning

Marco A. Andrade
A Microelectromechanical-Cantilever Hydrogen Sensor with Palladium-Driven Bending and Piezoresistive Readout

Aklilu T. Aron
(September, 2024)
Condensed Buck-Boost Switched Capacitor Converter for Efficient Voltage Distribution in Hydrogen Hybrid-Electric Aircraft

Ajay Arora
(September, 2024)
SongGen: Framework for Controllable AI Song Generation through Interactive Songwriting and Artist Emulation

Gaurav Arya
(September, 2024)
Automatic Bayesian Inference of Reaction Networks via Guiding

Angelos Assos
(February, 2025)
Optimally Controlling No-Regret Learners

Kevin E. Awoufack
(September, 2024)
Adversarial Prompt Transformation for Systematic Jailbreaks of LLMs

Isabel Báez Alicea
(February, 2025)
Multimodal Graphical User Interface for 3D Model Fabrication through Generative AI

Adithya Shyam Balachandran
(See also S.B.,Course XVIII)
Analyzing Multimodal Interactions through Improved Partial Information Decomposition Estimation

Purvaja Balaji
(February, 2025)
Deep Learning-Based Classification of Phonotraumatic Vocal Hyperfunction Severity from Stroboscopic Images

Hyemin Bang
Explanation Alignment: Quantifying the Correctness of Model Reasoning at Scale

Umang Bansal
Proof-of-Work Mitigation Strategy for DNS-Based Amplification DDoS Attack

Sarah G. Bentley
The Steerability of Generative Models: Towards Bicycles for the Mind

Jagdeep Singh Bhatia
(See also S.B., Course VI-3)
Robust Dexterous Manipulation Enabled by Learning at Scale in Simulation

Berkin Binbas
MOBLLM: Model Building LLMs via Symbolic Regression and Experimental Design

Samuel G. Bruce
Computing Economic Equilibria and Their Applications to Market Games

Fiona X. Cai
(September, 2024)
Uncertainty Inclusive Contrastive Learning for Leveraging Synthetic Images

Martin Chan
Bluespec Language Server: Adapting Rust Analyzer for Bluespec

Joseph A. Chandler
Savaal: A System for Automatically Generating High-Quality Questions from Unseen Documents

Cathy Y. Chang
(See also S.B., Course VI-3)
The First Signs of Vision

Ryan Chang
(See also S.B.,Course VI-3)
Optimizing SigmaOS for Efficient Orchestration of Fault-Tolerant, Burst-Parallel Workloads

Anugrah G. Chemparathy
Computational Targeted Codon Optimization and Translation with Deep Learning

Benjamin Chen
(See also S.B.,Course VI-3)
Metagradient Descent: Differentiating Large-Scale Training

Cecilia D. Chen
(February, 2025)
Convergence of the Arnoldi Iteration for Estimating Extreme Eigenvalues

Edenna H. Chen
(February, 2025)
SpaceCroissant: Expanding a Metadata Format for Space Weather Imagery MLReady Datasets

Helen Chen
A Simplified Approach to Calculating Personalized Estimates for Electric Vehicle Charging Delays

Lily Wenyu Chen
(See also S.B.,Course XVIII)
Grounding Time Series in Language: Interpretable Reasoning with Large Language Models

Peilin Chen
(See also S.B., Course VI-3)
Self-Supervised ECG Learning for Multimodal Clinical Tasks

Yiming Chen
(September, 2024)
Geo-UNet: A Geometrically Constrained Neural Framework for Clinical-Grade Lumen Segmentation in Intravascular Ultrasound

Zitong Chen
National Crop Field Delineation for the United States

Emily Cheng
A Topology-Guided Corruption Process for Discrete Diffusion on Tabular Data

Abdellatif Anas Chentouf
Noisy with a Chance of Mislabels: A Local and Training Dynamics Perspective at Detecting Label Noise in Deep Classification

Justin J. Choi
(See also S.B., Course VI-3)
Injection of Domain-Specific Knowledge for Enterprise Text-to-SQL

Kenneth Kawa Choi
(See also S.B.,Course VI-3)
Hosting LLMs on Shared GPUs

Sun Mee Choi
Application of Precision Successive-Approximation-Register Analog-to-Digital Converters for Digital Root-Mean-Square Calculation

Thanadol Chomphoochan
Evaluating the Feasibility of Transaction Scheduling via Hardware Accelerators

Lucian K. Covarrubias
(February, 2025)
Enabling Semantically Grounded, Long Horizon Planning and Execution for Autonomous Agents

Matthew J. Cox
(September, 2024)
Evaluating Large Language Models as Circuit Design Assistants

Elie E. Cuevas
Modeling Recursion with Iteration: Enabling LLVM Loop Optimizations for Recursive Data Structure Traversal

Caroline K. Cunningham
Improving Introductory Computer Science Students' Programming Process When Using a Generative AI Tutor (PyTutor)

Omar Dahleh
Clinical Text De-Identification Using Large Language Models: Insights from Organ Procurement Data

Gaurab Das
(See also S.B., Course VI-2)
Vigilis: Leveraging Language Models for Fraud Detection in Mobile Communications and Financial Transactions

Arthur Reiner V. De Belen
(September, 2024)
Feasibility of Vector Instruction-Set Semantics Using Abstract Monads

Leon Y. Deng
(September, 2024)
Uncertainty Quantification in Deep Learning Models of G-Computation for Outcome Prediction under Dynamic Treatment Regimes

Wenqi Ding
(See also S.B.,Course VI-3)
Learning Ad-Hoc Human-Agent Communication for Efficient Task Execution

Nicholas L. Dow
Optimizing Scheduling for Stream Structured Programming for StreamIt

Barbara R. Duckworth
(February, 2025)
Applied Plankton Image Classification for Imaging Flow Cytobot Data

Juan Sebastian Duitama Cortes
(February, 2025)
Architecturally Guided Initialization: Preventing Overfit from Deep MLPs

John M. Eastman
(September, 2024)
Recovery of Herschel-Bulkley Fluid Parameters from Video via Differentiable Simulations

Jonathan Seth Edelman
Computational Exploration of Thermodynamic Models of Geological CO_2 Injection

Ezra J. Erives
Towards Enhanced Proposals for PINN-Based Neural Sampler Training

Christopher K. Evagora
(February, 2025)
Battery Pack Design and Transient Performance Modeling for High-Power Legged Robots

Chirag Falor
(February, 2025)
A Computational Tsirelson's Theorem for All Compiled Nonlocal Games

Ashar Farooq
Data Traceability via OTrace Concepts and Implementation

Joseph W. Feld
(September, 2024)
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Amy Huynh
(See also S.M., Technology and Policy Program)
Sustainable Engineering of Polyethylene Fiber Materials: Advancing Functional Properties of Diverse Textile-Based Structures

Tiancheng Jiang
(See also M.B.A., Course XV)
Domain Adaptation of VLM for Soccer Video Understanding

Yixuan Jiao
CMOS-Compatible Wafer-Scale Synthesis and Rapid Characterization of Two-Dimensional Transition Metal Dichalcogenides

Aaron Jerome Jones
(February, 2025)
Modeling and Analysis of Voltage Instability for Cost Effective Microgrid Designs

Hanlim Kang
(February, 2025)
Investigation of Two Qubit Gates Between Remote Spin Qubits Using an Offset-Charge-Sensitive Transmon Coupler

Junghyun Kim
(February, 2025)
Design and Engineering of Protected Superconducting Qubits

Deepali Kishnani
(February, 2025)
(See also S.M., Engineering and Management)
Human Computational Models for Behavioral Science in Marketing

Nikita Klimenko
(See also M. Arch., Course IV)
Cooling Machines: Exploring the Heat Mitigation Effect of Urban Trees with Computer Vision

Dooyong Koh
(September, 2024)
Superparamagnetic Tunnel Junctions for Reliable True Randomness and Efficient Probabilistic Machine Learning

Jaehyun Koo
Parallel Batch-Dynamic Graph Algorithms: Coreness Decomposition and Spanners

Akarsh Kumar
Automating the Search for Artificial Life with Foundation Models

Laura Marie Landon
Network Coding in 5G NR as an Alternative to ARQ and Hybrid ARQ

Jane Charlotte Lange
Sublinear Algorithms for Explaining Black-Box Models

Riley Emerson Lawson
Transmission Line Dynamics Modeling for Power Electronics-Enabled Control in the Electric Power Systems

Eunhae Lee
(September, 2024)
(See also S.M., Engineering and Management)
The Power of Perception in Human-AI Interaction: Investigating Psychological Factors and Cognitive Biases that Shape User Belief and Behavior

Jungsoo Lee
On-Chip Training and Inference with Non-Volatile Programmable Resistor with Analog Computing

Young Joong Lee
(February, 2025)
Enhancing Robotic Manipulation of Liquid Using a Digitally Fabricated Intelligent Wearable Device

Ryan Lehmkuhl
(September, 2024)
Distributional Private Information Retrieval

Jiatu Li
Bounded Arithmetic and Reverse Mathematics

Qiyao Liang
(September, 2024)
Factorization and Compositional Generalization in Diffusion Models

Sungmoon Lim
(See also M.C.P., Course XI)
Data-Driven Assessment of Digital Age Inclusion: Topic Modeling Seoul's Digital Governance Platform to Evaluate Elderly Representation

Mingyang Liu
(February, 2025)
On Solving Larger Games: Designing New Algorithms Adaptable to Deep Reinforcement Learning

Ziqian Liu
Efficient Routing in the CityMesh Decentralized Fallback Wireless Network

Christian Emmanuel Lopez Angeles
Highly Integrated Graphene-Based Chemical Sensing Platform for Structural Monitoring Applications

Carla Lorente Anon
(See also M.B.A., Course XV)
Multimodal Generative AI Chatbot for Root Cause Diagnosis in Predictive Maintenance

Henry Tinhang Ma
Complexity of Basis-Restricted Local Hamiltonians

Rachel Ma
(February, 2025)
Goal Inference from Open-Ended Dialog

Bonny Mahajan
(See also M.B.A., Course XV)
Generative AI in Private Equity for Accumulative Advantage

Mohith Harish Manohara
(September, 2024)
A Power Efficient Analog Front End for Continuous Ultrasound Imaging of the Bladder

Shahabeddin Mohin
A Blocker-Tolerant mm-Wave MIMO Receiver with Spatial Notch Filtering Using Non-Reciprocal Phase-Shifters for 5G Applications

Alexander Nicholas Morgan
(February, 2025)
Evaluating H-Score Feature Geometry by Estimating Conditional Distributions for Hidden Variables

Savva Morozov
(February, 2025)
Fast Multi-Query Planning in Graphs of Convex Sets

Abhishek Mukherjee
(September, 2024)
Tailoring Photonic Properties of Semiconductors via Strain and Defect Engineering

Sanjoli Narang
(February, 2025)
Accelerating Distributed Deep Neural Network Training/Fine-Tuning

Sofie Franziska Netteberg
(See also M.B.A., Course XV)
From Strategy to Execution: An Optimization Approach to New Product Placement in the Apparel Industry

Pragya Neupane
(See also S.M., Technology and Policy Program)
Analyzing Inconsistent Results of Table Transformer for Improved Data Extraction in Childhood Obesity Intervention Literature

Kimia Noorbakhsh
Scaling Automatic Question Generation to Large Documents: A Concept-Driven Approach

Wil J. Norton
Development and Deployment of an Anthropomorphic Soft-Rigid Hybrid Robotic Hand

David Pahl
Simulation and Design of Superconducting Circuits for Quantum Error Correction

Lukas Pahl
Calibration and Control of Superconducting Qubits for Quantum Error Correction

Hridibrata Pal
High Al-Content AlGaN Transistors for RF Applications

Eileen Pan
Evaluating Differences in GPT4 Treatment by Gender in Healthcare Applications

Jyothish Pari
Collective Model Intelligence Requires Compatible Specialization

Younghyo Park
Towards Scalable Robot Learning without Physical Robots

Jordina Kristal Pierre
Extending DYMONDS: MPC-Based Control of Solar Inverters for Dynamic Mode Switching and Grid Optimization

Charilaos Pipis
Efficient Learning and Computation of Linear Correlated Equilibrium in General Convex Games

Adam Jay Pressel
(See also Naval E., Course II)
Wide Range Switched Mode RF Power Amplifiers and Their Applications

Isha Puri
Probabilistic Inference for Inference Time Scaling of Language Models

Ashley Qu
Development of Multi-Modality Imaging Cart for Barrett's Esophagus

Amit Rajaraman
The Fundamental Limits of Recovering Planted Subgraphs

Esteban Ramirez Echavarria
(See also M.B.A., Course XV)
Discrete Event Simulation as a Predictor for Factory Traffic Management

Prerna Ravi
(September, 2024)
LLM-Powered Project Based Learning Assessment Tools for K12 Educators

Isabella Romero Estevez
Ultrasound-Based Emboli Detection and Sizing

Matthew David Russo
Cost-Based Optimization for Semantic Operator Systems

Elizabeth Ann Salata
(See also M.B.A., Course XV)
Streamlining Diagnostics of Electrical-Connection-Related Errors in General Assembly Using Augmented Reality Wearables

Amit Schechter
(September, 2024)
Methods for Out of Domain Generalization

Harshay Shah
ModelDiff: A Framework for Comparing Learning Algorithms

Harsha Sharma
Optimizing Video Streaming at Scale Across Devices, Networks and Temporal Drift

Seiji Aaron Shaw
(September, 2024)
Characterizing the Epistemic Uncertainty of Predictive Action Models and Sampling-Based Motion Planners for Robotic Manipulation

Chen Shi
(February, 2025)
Sharp Results for Hypothesis Testing with Risk-Sensitive Agents

Alejandro Yamil Simon
Ab Initio Modeling of Superconducting Nanowire Single-Photon Detectors

Jaekang Song
Functionalization of CNFETs Array for Chemical Sensing

Shixin Song
Oreo: Protecting ASLR Against Microarchitectural Attacks

Thomas Jeongho Song
(September, 2024)
(See also S.M.(N.A.M.E.), Course II)
Experimental Evaluation of Underwater Semantic SLAM

Steffan Henderson Sowards
(See also M.B.A., Course XV)
Data-Driven Key Performance Indicator Modeling for Robotic Mobile Fulfillment Systems

Shobhita S. Sundaram
(February, 2025)
Representation Learning with Perceptual Alignment

Behrooz Tahmasebi
On Counting Substructures with Graph Neural Networks

Jinbi Tian
Machine Learning-Accelerated Discovery of Stable Solid-State Lipid Nanoparticle-Formulated RNA Vaccines

Arun Alejandro Varma
(See also M.B.A., Course XV)
Diagnostics in Additive Manufacturing Using Image-Based Machine Learning

Gustavo A. Velez
Trapping and Laser Cooling an Ensemble of Ytterbium-171 Atoms for Use in an Atomic Clock

Yasmin Sera Veys
(September, 2024)
Designing Sparse Representations for Efficient Planning in Uncertain Environments

Chenyu Wang
(February, 2025)
A Variational Lower Bound to Mitigate Batch Effect in Molecular Representations

Jennifer Wang
High-Efficiency, Low-Loss Floquet Josephson Traveling Wave Parametric Amplifier

Michael Wang
Large Language Models for Heap Abstractions

Emma Frances Wawrzynek
(September, 2024)
Fabrication and Testing of A Middle-Ear Implanted Microphone

Finnian Ellis Westenfelder
(See also S.M., Technology and Policy Program)
LLM-Supported Natural Language to Bash Translation

Aaron W. Wubshet
(See also M.B.A., Course XV)
Closing the Gap: An Evaluation of Electromechanical Drug Delivery Devices through the Lens of the On Body Injector Market Landscape and Auto Injector Temperature Prediction Algorithms

Karen Yang
Utilizing Slot-Die Coating to Improve Scalability of Lightweight and Semi-Transparent Perovskite Solar Cells

Shang Yang
(February, 2025)
Efficient Deep Learning Systems for Visual Perception on the Edge

Aijia Yao
(February, 2025)
Design-Technology Co-Optimization for Sub-2nm Technology Node Based on 2D Materials

Tianwei Yin
(February, 2025)
Multi-Subject Image Generation

Yue Yu
Characterization of pGaN-Gate Power HEMTs

Marcos George Zachary
(See also M.B.A., Course XV)
Driving Manufacturing Best Practices Using Multimodal AI

Akib Zaman
Fast Assembly of Curved Structures from Flat Configuration

Christos Vasili Zarkos
SERenaDE: Hardware Acceleration of Cloud Serialization Frameworks

Xiao Zhan
Physics-Optimized Design of 3D Shapes with Part-Based Control

Yantian Zhang
(September, 2024)
Quantum Free Games

Ziyu Zhang
Graph-Based Vector Search Algorithms for Retrieval-Augmented AI Systems

Master of Science in Chemical Engineering
Course X
Department of Chemical Engineering

Jackson Alexander Albright
(See also M.B.A., Course XV)
Computer Vision for Cell Line Development

Catalina Garza Lozano
(See also M.B.A., Course XV)
Predictive Model for Battery State of Health

Cindy Wong
(September, 2024)
Exploring the Economic Potential of Electrochemical Ammonia Recovery from Dairy Manure Wastewater

Master of Science in Chemical Engineering Practice
Course X-A
Department of Chemical Engineering

Lauren Meredith Abrahamsen
(February, 2025)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Omar Fouad Aly
(September, 2024)
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Xiaoru Chen
(February, 2025)
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Xiaoyu Chen
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Zhouhang Dai
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Yuhan Ding
(September, 2024)
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(September, 2024)
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(February, 2025)
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Arun S. Johnson
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(February, 2025)
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Alexandra Kousinioris
(September, 2024)
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Pradeep Natarajan
(September, 2024)
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Xiaoqi Sun
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(February, 2025)
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Siqi Wu
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Julie Yu
(February, 2025)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Master of Science in Aeronautics and Astronautics

Course XVI
Department of Aeronautics and Astronautics

Frederick Henry Oladimeji Ajisafe, Jr.
(February, 2025)
Using Systems Architecture and the EVDT Framework for Monitoring Methane Emissions in Rio de Janeiro

Adam Arthur Bahlous-Boldi
Performance and Analysis of a Deployable Diffractive Optical Element for Small Satellite Missions

María Paula Barbosa
(September, 2024)
Relationship between Synoptic Scale Meteorology, Aircraft Parameters, and Observable Contrails

Ireland Mackenzie Brown
(February, 2025)
Cost Optimized Logistics for Commercial Low Earth Orbit and Cislunar Operations

Mina Cezairli
Feasibility Analysis and Fuel Burn Benefits of Relaxing Constraints in High Altitude Cruise

Maranda Florence Cherry
(September, 2024)
Existence and Analysis of a Rotating Stall Inception Continuum & Development of Concept Questions in Fluid Dynamics

Kaitlyn Annabell Chu
Designing a Localized Lower Body Negative Pressure Suit for Long-Duration Spaceflight

Megan F. L. Cooper
(February, 2025)
Uncovering the Link Between Twin-Twin Interactions and Damage Nucleation in an (α+β) Ti Alloy

Samuel T. Costa
(September, 2024)
A GPU-Enabled Building Block Flow Model for Computational Fluid Dynamics

Daniela Lizette Davalos
Partial Gravity Load Simulation Using Mechanical Off-Loading and Lower Body Negative Pressure

Brandon Cole Eickert
Speeding Up Embedded HOWFSC Algorithms

Marlene Vivien Euchenhofer
An Investigation into Contrail Observability from Different Satellite Platforms

Hiya Akhil Gada
Distributed Energy Dynamics Control for Stable Power Electronic-Enabled Electric Power Systems

Annabel Reyna Gomez
Domain-Independent Mode Estimation for Human-Robot Collaboration

Yilun Hao
General Purpose Real-World Planning with LLM-based Formalized Programming

Pauline Mae Harrington
STPA on Sociotechnical Systems

Ryann Elizabeth Hee
(February, 2025)
Design Exploration of a Miniaturized Stirling Engine

Summer A. Hoss
An Aero-Thermo-Chemo-Mechanical Coupling Framework for the Analysis of Hypersonic Ablative Thermal Protection Systems

Mollie Xue Qing Johnson
Aeroverse: Aerospace Education in Extended Reality

Bünyamin Kartal
Theoretical Limits of Quantum Ranging

Ufuk Keskin
Multipartite Quantum Clock Synchronization via Collective Symmetric States

William Daniel Kline
Improving Predictions of Satellite Trajectory Changes: A Comparative Analysis of Machine Learning Methods

Patrick Joseph Koenig
Development of Control Laws for a Blown Lift Aircraft in Low Speed Flight

Christopher Jungwook Kwon
(February, 2025)
Aligned Carbon Nanotube Reinforcement of Aerospace Carbon Fiber Reinforced Polymer Composite Laminates: Experiments and Modeling

Fayleon Lin
Development of Algorithms for Quantitative Analysis of Long Electrical Arcs in Crossflows

Yuying Lin
(February, 2025)
Fabrication and Characterization of Horizontally Aligned Carbon Nanotube Thermoplastic Bulk Nanocomposite Laminates

Celvi Ann Lisy
The Effect of Solar Cycle on Satellite Orbital Lifetime

Clara Ziran Ma
(See also S.M., Technology and Policy Program)
Emissions Impacts of Future Launch Industry

Madelyn Ann MacRobbie
Investigating the Role of Mission Architecture in Crew Socioemotional Health for Mars Exploration

Saikrishna Manojkumar
Adaptive Wavefront Estimation Algorithms for High-Contrast Imaging

Grace C. Mao
Study of Thermochemical Non-Equilibrium and Sensor Cavity Geometry in Hypersonic Flow

Estelle Claude Aline Martin
(See also S.M., Technology and Policy Program)
Global Sustainable Aviation Fuel Production Potential from Current Agricultural Production: A Holistic Data Analytics and Systems Analysis Approach

Álvaro Jesús Martínez Sánchez
Causal Inference for Complex Systems and Applications to Turbulent Flows

Paulo Felipe Martinez-Riviere
Hypersonic Transpiration Cooling with Non-Uniform Outflow Modeling

Carissma Lakia McGee
(See also S.M., Technology and Policy Program)
Mass and Distance Estimation Simulations for the Nancy Grace Roman Space Telescope Using PyLIMASS and A Case Study on Intellectual Property Frameworks in Space Collaborations

James Carroll Morrison
Joint Localization and Synchronization via User Cooperation in Non-Terrestrial Networks

Anna Claire Mueller
Combined Steam Power Cycle and Turbofan Engine for Improvement in Aviation Climate Impacts

Ciarra Celena Ortiz
Adaptive Control Strategies for Mitigating Spaceflight Fluid Shifts Using Lower Body Negative Pressure and Non-Invasive Fluid Shift Sensing

Matthew Alejandro Quiram
(February, 2025)
Design and Testing of a Hovercraft with Electroaerodynamic Propulsion

Sankarsh Raghunath Rao
Electrical Diagnostics for Nanosecond Pulsed Discharge Reactors

Sarah Alexis Reider
Stochastic Methods for Setting Effective Aviation NOx Policies

Kinjal Amelia Lal Ruecker
(September, 2024)
Effects of Tip Clearance and Surface Roughness on Small-Scale Turbopump Impeller Performance

Nathan Caleb Schatz
Location Verification for Spoofing Detection in Non-Terrestrial Networks

Emma Patricia Shafer
Parametric Study of Novel Passive Thermal Control Technology for Spacecraft

Hannah Rachel Shafferman
Segmentation Based Tracking for Aerial Robot Global Localization in Unstructured Environments with Oblique Monocular Camera Orientation

Lorenzo Franceschini Shaikewitz
Optimization Techniques for Trustworthy 3D Object Understanding

Eric Timothy Shaw, Jr.
(See also M.B.A., Course XV)
An Operational Value Stream Analysis for Developmental Excellence

Mihir Upendra Shevgaonkar
1500W High Voltage DC-DC Converter for Electroaerodynamic Aircraft Applications

Aditeya Shukla
Impact of Efficiency-Driven Aircraft Technology Improvements on Climate and Air Quality

Jake T. Sonandres
A Computational Framework for Simulating Entanglement-Based Drone Countermeasures with Flexible Filaments Immersed in Viscous Flow

Kyle A. Sonandres
An Aerocapture Guidance and Estimation Framework for Improved Robustness to Uncertainty

Renato Trono Figueras
(September, 2024)
On the Application of an Output-Based Adaptive, Higher-Order Finite Element Method to Sonic Boom Propagation

Zheyu Wang
Robust Inference via Optimal Transport Ambiguity Sets

Alisa Nicole Webb
(September, 2024)
Fundamental Behavior of Nanoporous Networks in the Manufacturing of Out-of-Autoclave Carbon Fiber Reinforced Polymer Composites

Tiffany Yee Kay Yau
(February, 2025)
Multi-Agent Hybrid Prediction in Autonomous Driving

Yuan Yuan
(September, 2024)
Limits to Extreme Event Forecasting in Chaotic Systems

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Oluremi Gabrielle Abigail Akindele
Computational Approaches to Non-Heme Iron Enzyme Engineering: Bioinformatic Insights into Coordination Spheres and Molecular Dynamics of an Engineered Variant

Aimee Camille Moise
(February, 2025)
The Impact of Limosilactobacilus Reuteri on Responses to Inflammation DNA Damage in the Liver

Master of Science in Nuclear Science and Engineering

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Department of Nuclear Science and Engineering

Jaron Foster Cota
(September, 2024)
HYPERION: A HYdrogen PERmeatION Experiment to Quantify Hydrogen Transport in Fusion-Relevant Molten Salts

Ricardo Antonio De Levante Rodríguez
(February, 2025)
Study of High Harmonic Fast Waves Interactions in the Scrape Off Layer of NSTX-U

Shuhan Ding
(September, 2024)
Hofstadter Physics and Composite Fermionic Phase in Moiré Systems

Katelin Du
(September, 2024)
CAD-Based Geometry Representations for Monte Carlo Fusion Neutronics Methods and CSG vs. DAGMC Performance Tradeoffs in OpenMC

Emily Grace Edwards
Characterization of a Diamond Proton Recoil Telescope for DT Neutron Measurements in the LIBRA Experiment

Lauren Gates Fortier
Development of a Supervisory Control System as a Transition Technology Towards Autonomous Reactor Plant Operations

Vincent Joseph Galvan
Developing a TGLF Neural Network for Fast Integrated Modeling of the SPARC Fusion Device

Aidan M. Hallinan
Towards Semi-Autonomous, Highly Automated, and Remotely Operated(SAHARO) Nuclear Reactors

Riley Joseph Hultquist
Bragg Coherent Diffraction Imaging of Metal Microcrystals Using a Multipurpose *In Situ* Cell Design

Witiwat Jiragoontansiri
Computational Fluid Dynamics Modeling of Compact Steam Generators

Jamal David Johnson
(February, 2025)
Investigation of Multi-Z Impurity Transport in Tokamaks Using Neural Networks

Maren Emma Halverson Johnston
Radiation Effects on Thermal Properties of Advanced Nuclear Materials

Anna Kudriavtseva
(September, 2024)
Radiation Shielding Design and Radioactive Waste Assessment of Horizontal Compact High Temperature Gas-Cooled Reactor

Aurelien Yves Marie Legoupil
(September, 2024)
Mechanisms and Implementation of Thermo-Optical Annealing in Silica Fiber Sensors for Radiation-Induced Attenuation Mitigation

Lorenzo Mazzocco
(February, 2025)
Design of Horizontal Compact High Temperature Gas Reactor

Riley S. Moeykens
(See also S.B.,Course XXII)
Synthesis and Oxidation Behavior of Cr Alloyed Uranium Borides at High Temperatures

Kevin John Schurr
(See also M.B.A., Course XV)
Towards Green Aluminum

Caroline Julia Sears
Neutronic Performance and Thermal Hydraulic Analysis of the MIT Reactor Fission Converter Experimental Facility Using High-Density U-10Mo Low-Enriched Uranium Fuel Elements

Shayaan Syed Subzwari
(See also S.M., Technology and Policy Program)
Neutron Resonance Transmission Analysis of Nuclear Material for Reactor Safeguards Applications

Daniel Isher Seabrooke Tuana
(See also M.B.A., Course XV)
A Technoeconomic Model for Maritime Applications of Green Power Technologies

Grigor Tukharyan
(September, 2024)
Target Design and Optimizations for Spent Fuel Transmutation

Arthur Samuel Zangi
Reduction of Radiation Produced in Ion Implantation Devices, and Measurement of Some Relevant Cross-Sections

Master of Applied Science in Supply Chain Management

Program in Supply Chain Management

Damian Almaraz

Abdullah Essa Alsukairi

Javiera Paz Arancibia Bruce

Erin Elizabeth Bahm

Aneri Kinjal Bakshi

Sayda Elka Benítez Villarreal

Andre Luiz Bertoni

Jesse Quinn Brouillette

Ana Eislyn Cabrera García

Christina Paige Cafaro

Edgar Cetina Rodríguez

Plinio Rodrigo Cola

Antonio Martin Cordova Cordova

Mariana Dias Pennone

Peng Du

Vi Thi Nhat Duong

María Fernanda Esparza

Shane Lucas Favit

Miguel Fazzolari

Mark Edward Featherstone

Lane Stanton Fellhauer

Bernardo Garza

Varsha Gurumurthy

Peter Francis Harding

Natalia Higdon

Nicolas Taylor Holwerda

Hsin Li Hsiang

I-Chen Hsieh

Zhaoxia Huang

Alwyn Geoffrey James Johnson

Anshuman Mariappan Kandaswamy

Emma Pauline Manon Kébaïli

Doaa Abdelwahab Ahmed Ahmed Khalil

Hyungmin Matthew Kim

Madison Alayne King

Wirinratch Kirirak

Kyungmin Kook

Tejaswini Kunduru

Yassine Lahlou-Kamal

Milton Lavia

Bryan Bennett Lendzion

Shen Yeong Loo

José Luis López Villalobos

Scott Marintsch

Shane Daniel McGorty

Haley Grace Miller

Olivia Eskew Morton

Ngan Ngoc Nguyen

Tejveer Singh Oberoi

Johnny Gonzalo Paredes Delgado

Kevin Robert Power

Sharada Maruti Prabhu

Abhinav Rastogi

Jorge Alejandro Requena

Sandra Danbee Rhee

Sarah Marie Roman

Elisa Ruiz Mugica

Anthony Alexander Saunders

Paula Constanza Servideo

Marie Sonia Skaf

Yiming Tang

Sreerag Thazhissery Gangadharan

Cesar Jesus Valles Jaimes

Diego Nicolas Vesga Acevedo

Sebastian Alexis Villegas Pino

Mingchao Wang

Lydia Mae Whipple

Yun Tong Wu

Bharti Yadav

Xiaoli Yang

Wenjia Yao

Nastasja Dinah Zaunick

Mingrui Zhang

Master of Engineering in Supply Chain Management

Program in Supply Chain Management

Hari Raghavendran Bhupathi
Design of Future Energy Infrastructure: Understanding Trade-Offs between Renewable Capacity, Storage and Transmission Networks for Low-Carbon Landscape

Tanay Milind Deshpande
Heuristic Solution Approach for the Heterogeneous Vehicle Routing Problem with Arrival-Time-Dependent Service Times

Master of Science in Engineering and Management

Program in System Design and Management

Mohamed Mamdouh Ali Osman
(September, 2024)
The Impact of Government Policies in Middle Eastern Countries on Digital Platform Startups

Kabbod Alkhalil
Proximity and Prenatal Care: Geographic Accessibility to Healthcare Facilities in N'Djamena

Mohammed Saud Alsehali
System Design and Evaluation of Spectrum Management Architectures for Co-Primary Sharing in the 37 GHz Band

Daniel Trevor Anastos
Grid Enhancing Technologies: Optimization and Benefit for Distribution Grid

Naveed Arsalan
(September, 2024)
Calculation of Zakat on Financial Assets for American Muslims: A Financial and Jurisprudential Approach

Panagiotis Rafail Athanasopoulos
(See also Naval E., Course II)
Offshore Floating Solar with Compressed Air Storage as a Baseload Power Plant for a Data Center

Sai Prasad Balla
Levelized Cost of Fuel (LCOF) Studies for Micro Reactors Using Triso Fuel in Hydride and Beryllium Based Composite Moderators in Open and Closed Fuel Cycles

Zachary Neal Ballard
(February, 2025)
Enhancing Coast Guard Infrastructure Management: A Multi-Criteria Framework for Prioritizing Maintenance Projects

Timothy James Blackford
(September, 2024)
Quantifying Emissions and Costs of Geologic Hydrogen: An Integrated Lifecycle Emissions and Techno-economic Approach

Braden Corrigan Brower
(See also S.M., Course II)
Destructive Behaviors in Naval Shipyards: A STAMP and System Dynamics Analysis

Jiannan Cao
(September, 2024)
A Study on Deploying Large Language Models as Agents

Enoch Eduardo Chambe
(September, 2024)
Hispanic Participation in Corporate Diversity Networks

Mengzhu Chen
(February, 2025)
(See also S.M., Course VI)
Tactile Vega-Lite: Prototyping Tactile Charts with Smart Defaults

Albert Youngjin Chun
(September, 2024)
Using Systems Thinking to Develop a Strategic Roadmap for AI Implementation in Corporate Finance Function

Justin Edward Cottrell
(February, 2025)
Magnetically Manipulatable Pre-Curved Electrode Array (MMPE) in Cochlear Implantation

William B. Dale
AI and the Human Element: Exploring the Collaboration Between Entrepreneurs and Artificial Intelligence in Decision-Making and Venture Outcomes

Nguyen Luc Dao
Designing Generative Multi-Agent Systems for Collective Intelligence and Resilience

Carrie Belle Deline
National Space Power Analysis through Organizational and Market Evolution

Michal Delkowski
Evaluating the Strategic Intent and Competitive Dynamics of China's Satellite Communications Constellations

Matthew Francis Dickerman
(See also Naval E., Course II)
Nuclear Microreactor-Powered Container Ships for Maritime Decarbonization

Donald Clifford Duval
(February, 2025)
The NORCAT Underground Center - Driving Technology Adoption in the Global Mining Industry

Joseph Jeremiah Estep
(September, 2024)
Technoeconomic Analysis of Geothermal District Heating in the Boston, MA Area

Mo Fareed
Opportunities in Advanced Wireless Integrated Circuits

Jorge Farfan Perdomo
(February, 2025)
Productivity in the Workplace for Product Development Teams

Abhinav Gandhi
Optimization of CPG Budgets in Retailer-Led Marketing Programs

Samuel John Gomez
Data-Driven Modeling and Real-Time Optimal Control of Continuous Manufacturing Processes

Lauren E. Gutierrez
(February, 2025)
Systems-Theoretic Organizational Design and Analysis

Bartholemew Hegarty
(September, 2024)
From Hurdles to Highways: Overcoming Barriers to Robotics Adoption in Supply Chains

Thomas S. Hoyt
Enhancing Community Risk Preparedness for Flooding Emergencies: A System Dynamics Approach for the U.S. Army Corps of Engineers

Lauren Taylor James
(September, 2024)
From Capture to Storage: Understanding the Viability and Challenges of Carbon Capture and Sequestration Initiatives

Martyna Jezewska
Applying Systems Engineering to Improve Patient Health through Digital Innovation at Mayo Clinic

Andrew Crawford Jones
(February, 2025)
Strategizing Professional Connectivity: An Integrative System Design Approach to Revolutionize Job Networking and Challenge the Linkedin Paradigm

Jeremy Adam Kime
(September, 2024)
From Shipyard to Sea: A Flexible System Design Approach to the Transition from Shipbuilding to Operations

Deepali Kishnani
(February, 2025)
(See also S.M., Course VI)
Human Computational Models for Behavioral Science in Marketing

Caleb Matthew Knight
(September, 2024)
Carbon Capture Efficiency in Natural Gas Combined Cycle Power Plants: Analyzing the Effects of Variable Load Operations

Prashant Kumar
Ensuring Security of Supply while Decarbonizing Islanded Heavy Industrial Electricity Systems

Piyush Kumbhare
System Thinking to Analyze the Market Penetration of Two-Wheeled vs Four-Wheeled EVs in India

Emily Anne Lauber
Investigating Motivational Drivers of Participation in W3C's Web Standards Development Process

Sophia Leamon
Computional Approaches to Form Redesign for the Purpose of Mitigating Support Structures in Additive Manufacturing

Eunhae Lee
(September, 2024)
(See also S.M., Course VI)
The Power of Perception in Human-AI Interaction: Investigating Psychological Factors and Cognitive Biases that Shape User Belief and Behavior

Chen Li
(February, 2025)
Detecting Expertise Influence on Teamwork in Sustainable Urban Design Workshops through a System Model

Rachel Grace Lin
Optimizing Tactical Demand Allocation Decisions in a Large-Scale Supply Chain Network under Uncertainty

Shun Maruyama
Power and Progress in Japan: The Past, Present, and Future of Japan as a Tech Powerhouse

Jessy Mbagara Mwarage
Digital Twin Technology Applied to Automotive Diagnostics

Chu pang alex Ng
(February, 2025)
Scalable and Sustainable Wireless Power Transfer for Lunar Missions: Exploring Beamed Solar Power Microwave Solutions

Yuner Angela Niu
(February, 2025)
Leveraging Blockchain Technology for Enhancing Genomic Data Management: A Multidisciplinary Framework for Privacy, Trust, Identity Protection, and Equity

Stephanie Christine Peralta Walker
(February, 2025)
A Systems Approach to Stakeholder Analysis for Assessing Blood-Based Laboratory Diagnostics for Alzheimer's

Michael Scott Peters
(February, 2025)
Digital Thread Maturity in Manufacturing: A Cross-Industry Study Using the Model-Based Enterprise Capability Assessment Framework

Morgen Taylor Pronk
(September, 2024)
Beans to Bytes: Grey-Box Nonlinear System Identification Using Hybrid Physics-Neural Network Models

Rachael May Putnam
Multi-Objective Generation of Pareto-Optimal Perception Architectures for Autonomous Robotic Systems

Neena Elizabeth Rajan
Foundations for Building an Innovation-Centric Product Development Framework for Medical Devices

Matthew Roberts
(September, 2024)
Technology Performance Curves to Inform Government and Private Investment

Aparajithan Sampath
(February, 2025)
Satellite Remote Sensing of Natural Capital: Requirements Assessment for Wetlands Monitoring and Valuation

William Thomas Scali
(See also Naval E., Course II)
Designing and Optimizing Magnetohydrodynamic Induction Marine Energy Harvester

Donald E. Schneider
(February, 2025)
Diagnosing Supply Chain Threats to Defense Innovation

Cody Lamond Seckfort
Geothermal Energy Planning Considerations for Contingency Location Energy Demands

Karim Shalash
Strategic Roadmapping and Technology Portfolio Selection for Heating Decarbonization in Canada

Sadami Suto
Assessment of Decarbonization Pathways of Japan

Wataru Suzuki
Safety Analysis and Design Improvement for Semi-Automatic Train Operation (STO) in High-Speed Rail Using STPA

Benjamin Fennelly Taylor
Biomechanical Golf Swing Analysis Using Markerless Three-Dimensional Skeletal Tracking through Truncation-Robust Heatmaps

Daiki Terakado
Multi-Objective Exploration of Refueling Architecture for Sustainable Crewed and Cargo Space Transportation

Jonas Urbonas
Embedded Software-Defined Radio Architectures for 6G Cellular Networks

Caroline Rose Vincent
(September, 2024)
Multi-Agent Reinforcement Learning for Autonomous Robotics

Christopher W. Von Haasl
Developing the Commercial Augmented Space Reserves Using the Civil Reserve Air Fleet as an Analogous System: A Systems Architecture and Quantitative Analysis Framework

Laura Nichole Warren
(September, 2024)
The Intangable Reverberations Following Mergers & Acquisitions

Kedi Wu
(September, 2024)
Women Nobel Laureates in STEM (2000-2023): Life Stories, Challenges, and How They Achieved Impact for Success

Tiantian Zhang
(September, 2024)
System Engineering for Carbon Capture and Storage

Master of Science in Transportation

Riccardo Fiorista
Course XI
Sensing and Predicting Urban Rail Platform Crowding Using Emerging Data Sources

Seamus Cook Joyce-Johnson
Course XI
(See also M.C.P., Course XI)
Enabling Car-Free Living: Shared Micromobility and Public Transit Interactions in Chicago

Chee Weng Michael Leong
Course XI
Quantifying the Post-Pandemic Urban Activity and Mobility Regime: Implications for Adaptation and Future Planning of Cities and Public Transit Systems

Tiffany Mei-Shie Lim
Course XI
Predicting Ridership and Travel Time Impacts of Bus Service Changes Using Sketch Planning Methods

Naval Engineer

Course II
Department of Mechanical Engineering

Matthew Christopher Ahlers
(See also S.M., Course II)
Path Planning for Autonomous Sailing Vessels: Developing Robust and Efficient Survey Strategies

Panagiotis Rafail Athanasopoulos
(See also S.M., Engineering and Management)
Offshore Floating Solar with Compressed Air Storage as a Baseload Power Plant for a Data Center

Matthew Francis Dickerman
(See also S.M., Engineering and Management)
Nuclear Microreactor-Powered Container Ships for Maritime Decarbonization

Robert Brandon Mannier
(See also S.M.(N.A.M.E.), Course II)
Tension-Leg Platform for Offshore Diffusor-Augmented Hydrokinetic Turbine

Adam Jay Pressel
(See also S.M., Course VI)
Wide Range Switched Mode RF Power Amplifiers and Their Applications

William Thomas Scali
(See also S.M., Engineering and Management)
Designing and Optimizing Magnetohydrodynamic Induction Marine Energy Harvester

Myles Frederick Wortham
Machine Learning-Driven Synthesis of Naval Hullforms via Latent Space Parameterization and Multimodal Regression

Master of Engineering in Computer Science, Economics, and Data Science

Course VI-14
Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Christina Elizabeth Antonakakis
(February, 2025)
Beyond Lifetime Value: A Customer Journey Analysis to Fan Engagement and Spending in Professional Sports

Jonathan S. Berger
Cutting through the FOG: Generative AI and the Future of Financial Readability Metrics

Joy Sera Bhattacharya
Discovering and Detecting Tax Avoidance Using Natural Language Processing and Coevolutionary Algorithms

Bradley H. Bunch
(See also S.B., Course VI-14)
Image Registration and Gantry Tracking System of Clytia hemisphaerica

Christopher L. Carratu
Guardian Cap Effectiveness on Reducing Concussions at the Collgiate Football Level

Kristina Y. Chen
Leveraging Large Language Model Embeddings to Enhance Diversity and Mitigate the Filter Bubble Effect in Recommender Systems

Mohit Dighamber
(September, 2024)
Physics-Informed Deep Learning for Plasma Etch Optimization

Alison Fang
(September, 2024)
The Effects of School Choice Architecture on Public School Enrollment

Jia-en J. Hu
(February, 2025)
Impact of Occupational Flexibility on Labor Market Outcomes of Women Following Childbirth

Katherine E. Kostecki
Evaluating the Impact of Equipment Investments on Olympic Medal Probabilities for Australian Professional Cyclists

Joseph Z. Li
Analyzing Inventory Placement of Low-Volume Items in Online Retail

Maria Li
From Campus to Commerce: Examining MIT Alumni Roles in Startup Ecosystems

Joshua Shay Masuda
(September, 2024)
Portfolio Optimization Using a Hybrid Machine Learning Stock Selection Model

Sebastian Miguel Quintero
Retrieval-Augmented Generation for Large Language Models: Enhancing Applied Economic Reasoning and Forecasting

James B. Simon
Under Pressure: Predicting Methane Emissions Variability in U.S. Oil and Gas Basins

Sari E. Strizik
Collaboration Reimagined: How Can AI Transform Group Learning?

Karen Ruiyi Wang
Regional Market Dynamics: A Marginal Pricing Approach to Metals Market Modeling

Kelly Wu
(See also S.B., Course VI-14)
A Quantitative Analysis of Women's Health Investments

Samantha Ying
(February, 2025)
Leveraging Machine Learning to Model Success Factors of Dual-Use Startups

Ruiying Zheng
A Multitask Deep Learning Framework for Clinical Decision-Making in Assisted Reproductive Technology

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Master of Science in Economics
Course XIV
Department of Economics

George Reuben Garcia III
(September, 2024)
The Effects of the U.S. Capitol Attack on Political Views in Argentina, Brazil and Chile

Master of Applied Science in Data, Economics, and Development Policy
Course XIV
Department of Economics

Ioana Adriana Branga-Peicu
(September, 2024)

Raimundo Eyzaguirre Ducci
(September, 2024)

Mariam Fahmy
(September, 2024)

Ricardo Habalian
(September, 2024)

Fabian Lucius Holland Hogers
(September, 2024)
Free Basic Electricity Optimization Research

Shaochen Huang
(September, 2024)

Pratik Kunwar
(September, 2024)

Wade Lahring
(September, 2024)

Elizabeth Marcy Lowe
(September, 2024)

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Ariana Martine Mapua
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(September, 2024)

Luca Moreno Louzada
(September, 2024)

Hasto Arief Narendra
(September, 2024)

Pritham Raja
(September, 2024)
Building Algorithmic Solutions for Development Challenges

Miles Luke Ramsden
(September, 2024)
Gender Biases in Hiring Practices

Mahrukh Shahid
(September, 2024)

Ankita Singh
(September, 2024)

Chian Vern Wong
(September, 2024)

Master of Science in Political Science
Course XVII
Department of Political Science

Ipek Tugba Bayraktar
(February, 2025)
Institutional Congruence and Knowledge-Based Competition: Denmark and Germany in Biotechnology and Software Industries

Helen Lorraine Jessica Ada Webley-Brown
(February, 2025)
Democracy under Surveillance: The Effect of Pretrial Electronic Monitoring on Voting Behavior

Master of Science in Science Writing
Course XXIW
Program in Writing and Humanistic Studies

Eva Grace Cornman
(September, 2024)
The Phight for Phage: Understanding Bacteriophage Therapy in Aquaculture and Human Health

Daniel Noah Daly
(September, 2024)
Cheaper than a Funeral: Considering Ibogaine's Psychedelic Journey and Therapeutic Potential

Sophia Noelle Hartley
(September, 2024)
Trouble on the Range: When Does a National Park Become a Bison Zoo?

Sarah Rebecca Hopkins
(September, 2024)
Kent Kiehl's Search for the Criminal Brain

Ching Lam Ip
(September, 2024)
"All Hell Breaks Loose": How Big Oil Ruined a Small Texas Town

Hannah Rose Richter
(September, 2024)
No One Wants To Be A Parasitologist: The Shrinking Field of America's Least Favorite Animals

Lily Katherine Stewart
(September, 2024)
Beyond the Ovaries: Renaming a Common Yet Neglected Hormonal Condition Could be the Key to Unlocking Better Care for Patients

Alejandro Gabriel Viveros
(September, 2024)
Nipah: The History, and Future, of One of the World's Most Lethal Viruses

Master of Science in Linguistics

Course XXIV
Department of Linguistics and Philosophy

Margarita Soledad Chango Masaquiza
Prosody in Kichwa

Ukhengching Marma
(September, 2024)
Topics in Marma

Renhard Saupia
Orthography Design and Corpus Development for Preserving Leti

Master of Science in Philosophy

Course XXIV
Department of Linguistics and Philosophy

John Christopher Hill
(September, 2024)
Not Function but Function Conquered: Against a Functionalist Theory of Directives

Master of Science in Science, Technology, and Society

Course STS
Program in Science, Technology, and Society

Turner Day Adornetto
(February, 2025)
Remembering Energic Connectivities: Appropriate Technology and Domestic Infrastructure in the Energy Crisis

Radhika Radhakrishnan
(February, 2025)
Geographies of Selective Surveillance: Analysing the Lived Experiences of Street-Level Trans Sex Workers and Muslims in India through the Matrix of Domination

Thelma Yuanzhi Wang
(February, 2025)
Commodifying and Consuming Endocrine Drugs in Republican China (1920s-1940s)

SLOAN SCHOOL OF MANAGEMENT

Master of Business Administration
Course XV-A (Sloan Fellows)
Sloan School of Management

Aanchal

Abdul Raof Bin Abdul Latif

Prashasti Agrawal

Yuichiro Amano

Baffour Yaw Duodu Appiah-Korang

Iago Abrahao Aquino

Maria Jose Araya Pereira

Junichiro Arima

Shaked Aviv Ben Aharon

Karan Batra

Moshe Yehonatan Ben-Giat

Emmanuel Ogyem Boakye

Joshua William Bunning

Cheng Wei Chang

Siddharth Chilukuri

Priscilla Olivia Clark

Gregory Warren Cucino

Simone Cuni

Nicholas Joel Daniels

Melissa Camille Zarate Domingo

Yang Dong

Shintaro Enomoto

Adefemi Temilade Fapohunda

Shani Fargun

Lucas Farias Zarconi Cavalcanti Duarte

Solangel Natali Fernandez Huanqui

Gilberto Fimbres

Diana Marcela Garzon Nunez

Zhuo Han

Hiroshi Hasegawa

Eric Yu-Chua Huang

Roberto Huber Romo

Keiichiro Ishii

Orkhan Javadli

Louise Patricia Persephone Jones

Takayuki Kageyama

Rui Kato

Ayush Kedia

Leonard Yves Kenfack Tsafack

Gulnara Kilybayeva

Yongwan Kim

Betina Kitzler

Sergei Kniazev

Alaa M. Kolkaila

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Simeng Li

Jieyun Lin

Xing Liu

Evelyn Mei Jing Loh

Marcel Lotufo Soares

Aldo Raúl Luévano Ibarra

Shiv Mahajan

Dishaben Rameshbhai Malani

Rafael Bez Batti Maldonado

Yoav Moshe Marziano

Rohit Mehrotra

Siddharth Mehta

Pablo Mejia Sanclemente

Christopher Patrick Mulrooney

Raashid Naik

Shelly Natalia

Wayne Thomas O'Donnell, Jr.

Hiroko Obata
Toward a Sustainable and Scalable Ecosystem: Breaking the Cycle of Intergenerational Poverty for Single Mothers in Japan with Private Sector Engagement

Chukwuemeka Okpukpara, Jr.

Jeremiah Kunle Ologhobo

Honey Pamnani

Erin Moira Patinkin

Sasakorn Phanitsombat

Soso Pipia

Sandeep Punia

Sushant Ravi

Shiv Kumar Redhu

Yael Rosenblum

Sandeep Gautam Sahu

Yong Sheng See

Mayu Shimizu

Shalin Shrimali

Rajdeep Singh

Irma Isabel Socola Kcomt

Dominic Sudnik

Ryohji Suzuki

Brannon James Swallow

Frances May Taheri

Kenta Takahashi

Katherin Liliana Tapia Huaman

Abhishek Thiagarajan

Aicha Toure

Gokhan Tumel

Nyamsuren Tumur-Ochir

Jennifer Turliuk
The Net Climate Impact of AI: Balancing Current Costs with Future Climate Benefits

Eden Tzoubari

Jhonn Fredy Velosa

Jose Enrique Vera Ortega

Dingyan Wang

Roy Weinstock

Kate Elizabeth Westervelt

Ding Jian Wong

Guanjun Xia

Chie Yamamoto

Liang Ye

Iryna Zhuravel

Master of Science in Management
Course XV-A (Sloan Fellows)
Sloan School of Management

Rodrigo Yerko Moscoso
Strategic Cooperation in Water Management: A Game-Theoretic Approach to Sustainable Infrastructure in Chilean Mining

Master of Business Administration
Course XV-E (Executive)
Sloan School of Management

Ali Mahamat Abbassi

Rachit Agarwal

Dominic Joseph Aloia

Angélica Andrade Oliveira

Masooma Athar

Itzhak Zachi Attia

John Marshall Beckstead

Ross Alan Beyeler

Prasenjit Jay Bhaumik

Andrew Bond

Alfred Robert Bonfantini, Jr

Matti Mikael Brasse

Kevin Slattery Jaffe Brown

Richard John Bruno

Boris Alexander Bystrov

Sara Allison Campbell

Cristian Eduardo Capellino

Michael Anthony Celone

Dean Michael Cestari

Christiana Chen

Yunfeng Chen

Portia Lane Child

Jonatan Limber Chino Martinez

Adam Brian Cohen

Tessa Noel Cooper

William John Cupelo

Nimita Dave

Nicole Marie Demarey

Owen Dempsey

Lisa S. Erickson

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Hongyu Jiang

Mohamed Ahmed Kamal

Suhail Karam Ali

Rama Kataria

Eiko Kato

Deborah Elaine Keil

Kyle James Kekeisen

Christopher John Kenney

Prashanth Krotha

Tushar Kumar

David Lagares

Jaren Whitmore Landen

Rene Denis Largo

Zhonggai Li

Joni Moselle Lipkowitz

André Llamas Pasos

Justin Scott Long
Fixing the Broken Content Development Lifecycle: Starship Creative Global's Data-Driven Next-Gen Superhero Franchise

William Roger Mainwaring-Burton

Mohammad Minhajuddin Malik

Joseph Brooks Mashburn

Shiro Matsuzaki

David Dionne McManus

Phillip Rowan Miller

Kenneth Everitt Milstead

Peter Joseph Misek

Francois-Ernest Mongory

Abdullah Al Moyeen

Qing Nian

Michael Anis Nour

Kenny O'Trakoun

Kevin Shawn Oh

Ayokunle David Okeowo

Andrei Oprisan

Linda Ow

John Michael Parillo

Reshma Patel

Kristen Mary Davis Petrenko

Diana Victoria Poroy

Maria Eleni Prokopiou

Yuechen Qian

Lin Qiao

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Kishore Kumar Reddy

Anthony James Roland, Jr.

DeAndrea Newman Salvador

Jonina Sera Sauer

Rami Sayar

Joseph R. Scalea

Andy Sevordzi

Humaira Shaikh

Shikhir Singh

Molly Wharton Smith

Steven Michael Smith

Jessica Lynn Souder

Bentley Andrew Strockbine

Sripriya Sundararaman

Carly Tatibouët

Maureen Elizabeth Thyne

Maria Tkacheva

Christian Tozzi

Maryan Tsar

Forrest James Underwood

Koti Reddy Vanga

Nidhi Verma

Gregoire Versmee

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Kathryn Esper Wallach

Wahyu Wardani

Kurt Wasileski

Jacqueline Whalen

Tyler Jackson Woodhouse

Teddy Earl Wright III

Margaret J. Yuan

Evelina Maria Zapatka

Wunan Zhou

Master of Business Administration

Course XV
Sloan School of Management

Yara Abdou

Mohamed Mukhtar Aburawi

Andrew Parker Adams

Arick Admadjaja

Mona Agarwal

Devesh Agrawal

Shreeansh Agrawal
(See also S.M., Course I)
Machine Learning Methods for Churn Prediction and Infrastructure Resilience

Daniel Felipe Agudelo Moreno

David Akopyan

Michael Kofi Akpawu

Aramide Oluwaseun Alaka

Jackson Alexander Albright
(See also S.M., Course X)
Computer Vision for Cell Line Development

Hind Sultan AlHashem

Reem Sultan AlHashem

Hasnain Aslam Ali

Gabriel Alves Almeida

Abdulaziz AlShebaiky

Emilio Alvarez Flores

James Paul Alvarez Jr

Radhika Anbazhagan

Clyde Christian Anderson

Nicholas Storm Anderson

Ingrid Andrade Beckwith

Medika Obtetriana Anggun

Grant Richard Anhorn

Roberto Rafael Roman Antonio

Martin Arreola Villanueva

Anthony Eugene Arroyo

Henrietta Emefa Asamoah

Ameyo Laetitia Attila

Priyanka Balaji

Sharanya Balaji

Gabriel Balzaretti

Grace Ianzum Bambushew

Anne Julliene Lising Barcelona

José Salvador Barranco Garcia

William Daniel Barth

Mateus Batista Rocha

Carl Albrecht Becker

Benedetta Bellomo

Gustavo Beltrão Arôxa Bezerra de Lima

Ana Maria Beron

Caison Andrew Best

Priya Darshini Bhirgoo
(See also S.M., Course II)
Evaluating the Feasibility of Electrified Process Heating for Drug Substance Manufacturing

Linn Bieske
(See also S.M., Course VI)

Anastasiia Biriuchinskaia

Blake Blaze

Luis Manuel Bolio Cuevas

Grayson Robert Borrego

Ana Ines Beatriz Prieto Borromeo

Conor Scannell Briggi
(See also S.M., Course II)
The Value of Digitizing Manufacturing Environments

John Michael Briney

David Matthew Brown

Leah Null Budson

Rory Thomas Burke

Patrizia Cadel

Miguel Esteban Calderón Zermeño

Giulio Capolino

Arianne Samantha Carpio

Alix Merriam Carson
(See also S.M., Course II)
A Data-Driven Work Center Assignment and Pricing Strategy for a Job Shop

Lucas Soares de Carvalho

Anthony Michael Catanzaro

Alvaro Javier Cava

Nanut Chaichanawanich

Piyada Chaiyakiturajai

Ryan K. Chang

Stephanie Yeonji Chang

Britney Cheng

Julie Chong
(See also S.M., Course I)
Safety Stock Modeling for a Medical Devices Supply Chain

Beny Chor

Alexandra Jada Chou

William Gisu Chung

Christopher James Connett

Jennifer Constanza

Nicolás Diego Sebastián Correa Fernández

Clemence Marie Mathilde Couteau

Mengrui Marissa Cui

Thomas Cordell Cummings

Aleksandra Kasza Czulak

Putri Damayanti

John Lothrop Daniels

Katherine Dao

Arjun Navneet Dave

Onetoritsebawoette Naomi David

Cameron Scott Davis

Jana Haas Davis

Amaury Simonne Denis De Bock

Maria Luisa De Moura Costa Alemao Queiros Oom

Alexandra Lee Decker

Swaraj K. Dharia

Isabella Danielle DiDio
(See also S.M., Course I)
Impact Evaluation and Prioritization Framework for Manufacturing Inspection Technology Investment

Priyanka Dinakar

Stephanie Maria Dotterer

Madeline Ruth Dubelier
(See also S.M., Course II)
Systems Approach to Component Code Optimization for Wound Closure Portfolio

Andrew Daniel Dugan
(See also S.M., Course II)
Fully Connected Digital Ecosystems within Hospitals - AI/ML Solutions for Improved Patient Care

Xueyan Dun

Jacob Calvin Dyer

Courtney Nicole Elston

Christopher Michael Emerson

Min Hyeok Eom

Andrew Dorsey Epstein
(See also S.M., Course I)
Decarbonization of Gas Heating in Massachusetts: An Evaluation of Current Trends and Opportunities

Nathaniel Lucas Ezolino

Catalina Verplanck Feder

Andrew David Fenstermacher
(See also S.M., Course I)
Investigation into Sources of Volatility in Sortation Center Processes to Improve Productivity and On-Time Delivery

Irene Ferrari

André Ferreira Schweizer

Devon Ann Fiorino

Ariel Flasterstein Salazar

Stephen Connor Fox

Siobhan Isabel Fraile Ordóñez

Melanie Elizabeth Frank

Susannah Frechter

Victor Fu

Alessandro Fumi

Klaus Gabler

Gabriel Andres Gallardo Moncayo
(See also S.M., Course VI)
Transforming Unstructured Data into Actionable Insights: A Use Case of Generative AI in Operational Technology Problem Management

Weilong Gao

Jeremy Brian Garber
(See also S.M., Course II)
Minimizing Cost of Intra-Yard Finished Vehicle Logistics Through Automation and Optimization

Alejandra Garcia

José Ramón Garza Contreras

Catalina Garza Lozano
(See also S.M., Course X)
Predictive Model for Battery State of Health

Regina Garza Rubio

Adam Ryan Gebner
(See also S.M., Course II)
Optimizing Raw Wire Inventory Management: A Data-Driven Approach to Demand Forecasting and Supply Chain Decision Support

Kevin Willis Gelston

Madeleine Marguerite Généreux

Shawn Sabu George

Jacob Robert Gerbino
(See also S.M., Course II)
Economies of Space: Developing a Lean Manufacturing Framework for Work Center Floorspace Reduction

John Samir Ghosn

Christopher Brian Giuffrida

Andriy Gladun

Jack Thomas Glasl

Mark Joseph Gleason III

Grant Lyon Glover

Mahak Goel

Viraat Yogi Goel
(See also Ph.D., Course XX)
Simulation Modeling of Drug Substance Tech Transfer Timelines at Amgen

Jeffrey Hageboeck Goettman

Neha Golakia

Benjamin William Goldstein

Elana Rose Golub

Yutao Gong
(See also S.M., Course I)
Forecasting Automotive Production Volume Using Regression and Time Series Modelling

Sebastian Gonzalez

Gretel Scarlet Gonzalez Martinez
(See also S.M., Course II)
Expanding Home Broadband Coverage through Existing Low Earth Orbit Megaconstellations

José González-Trevijano Martín

Carlos Daniel Gosen Cappellin
(See also S.M., Course I)
Developing a Data-Driven Approach to Reducing Excess Inventory in a Multi-Echelon Supply Chain

Lina Gouto

Samuel Joseph Hall

James William Hanley

Alexandra Taylor Harbour

Bria L. Hardin-Boyer

Rachael Harkavy
(See also S.M., Course VI)
Forming the Future: A Digital Approach to Simulating Thermoplastic Manufacturing

Jacob Alexander Harrison IV

Paige Flynn Hartnett

Julia Pauline Hasson

Sarah Rahmani Putri Hendri

Aurea Jimena Herrera Torres

Nancy Hinojos

Maiya Alexis Hinton

Tal Hollander

Thaya Psyhojos Howard

Alexandra R. Hrabchak

Xinyi Hu

Astrid Hung

Fatima Hussain

Obinna Elvis Igwe

Patricia Maria Isaias

Belen Isla de la Vega

Armaan Karan Israni

Ritika Jain

Se Young Jeong

Tiancheng Jiang
(See also S.M., Course VI)
Domain Adaptation of VLM for Soccer Video Understanding

Christopher Robertson Johnson
(See also S.M., Course II)
Optimizing Automotive Production Scheduling to Reduce Finished Vehicle Inventory

Sydney Rose Johnson
(See also Ph.D., Course X)

Tanner Quentin Johnston

Sofia Maya Joison

Ignacio Jottar Bilbao

Mariana Justo Pereira

Nobuhiro Kagawa

Dariusz Kalynczak

Allison Blair Kammert

Sasivarnan Kanaghasalam Sathyapriya

Mohit Sanjay Kasliwal
(See also S.M., Course I)
An Integrated Optimization Model for Large-Scale EV Fleet Deployment: Balancing Emissions Reduction and Operational Costs

Ryan Taylor Keeley

Rosemarie Keller

Andrew Gilbert Kerber, Jr.

Aateeb Akbar Khan

Hibah Khan

Byung Chan Kim

Yong Min Kim

Alona Leigh King

Khalifani Beja Kitondo

Kittiya Kittiyano

Stefan Klein Baur

Jonathan David Klinner

Rachael Auline Knapp
(See also S.M., Course II)

Yawa Ella Komlanvi

Pallavi Krishnamurthy

Tanachart Kujareevanich

Vighnaa Kumar Kunendran

Minchae Kwak

Agustin Jose Lagos Charme

Tracy Jean Lahey

Rocio Larraguibel Rubio

Easlynn D'Marjorie Lee

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James Zhi Hern Lee

Ji Eun Lee

John Robert Edward Lee V

Kwang Jun Lee

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Jingjing Liang

Mengyuan Liao

Sharon Liao

Lorenzo Ligato

Pedro Henrique Lima do Nascimento

Frank Yilong Lin

Jasmin Liu

José Ignacio Llodrá Vial

Sarah Lober

Carla Lorente Anon
(See also S.M., Course VI)
Multimodal Generative AI Chatbot for Root Cause Diagnosis in Predictive Maintenance

Andrew Christopher Lu

Peter Ryan Lutter

Laura Huang Ly

Austin Davis Maddox

Amna A. Magzoub
(See also S.M., Course II)
Design Transfer as a Lever for Accelerated Medical Device Innovation: A Case-Based Mapping Approach

Bonny Mahajan
(See also S.M., Course VI)
Generative AI in Private Equity for Accumulative Advantage

Vidur Malhotra

Maxwell Xavier Malinowski
(See also S.M., Course II)

Shuqi Mao

Connor Martin

Jorge Martin Poza

Diego Martinez Duvall

Juan Ignacio Martinez De Aretxabala

Joanna Patricia Narido Matias

Natalie Marie Mayer

Carl William McKay

William Paul McNulty
(See also S.M., Course I)
Standard Work for High-Mix Low-Volume Operations

Christine Tess Meder

Holly Huckins Meers

Avni Mehta

Tej Amit Mehta

Benjamin Mejia-Tickner

David Edgar Merkel

Ian Peter Meyer

Juan Pablo Miery Peralta

Camilo Andres Milic Valenzuela, Sr.

Chuyue Ming

Baraka Wilnest Fares Minja
(See also S.M., Course I)
Design & Optimization of Shipping Container for Package-Less Units

María Cristina Mondragón Chapa

Juan Diego Montes de Oca Quinde

Winifred Monu-Azinge

Mateo Morales Jaramillo

Charlotte Victoria Morris

Emily Nell Moss
(See also M.C.P., Course XI)

Masaki Muroya

Aishwarya Nambiar

Anirudh Nambiar

Cyril Nasr

Sofie Franziska Netteberg
(See also S.M., Course VI)
From Strategy to Execution: An Optimization Approach to New Product Placement in the Apparel Industry

Isabel Maria Newman-Sanders

Phong Dang Nguyen

Trung Thanh Nguyen

Louis Matthew Nicoletti

Seulgi Noh

Michael Louis Norwalk
(See also S.M., Course II)
Decarbonized Cement Manufacturing via Advanced Production Technologies

John Fletcher O'Brien

Patrick John O'Reilly

Olanrewaju Damilola Oludipe
(See also S.M., Course I)
Optimizing Inventory Rebalancing: Strategies for Managing Excess Inventory in a Dynamic Supply Chain

Aryamika Bhatia Ondaatje

Samuel Benjamin Oppenheimer

Diego Ortega Laya

Alejandro Alberto Ortiz

Daryna Ostafiichuk

Oisín Michael O'Sullivan

Sarah Otter

Laura Gilstrap Owens

David William Packer III

Haoting Pan
(See also S.M., Course I)
Analyzing Procurement Data for Cost Saving Application

Gabriela Paredes Echeverri

Abhi Sujit Parikh

Jungmin Jamie Park

Su Jean Park

Nisha Patel

Riya Yatin Patel

Seeta Salgia Patel

Perseverance Rumbidzai Patsika

Er Li Zhong Peng

Norberto Tomas Perez

Karla Mayra Perez Munoz
(See also S.M., Operations Research)
An Optimization-Based Approach to Efficient Clearance Inventory Allocation

Grace Rose Barbara Petre Eastty

Selina May Phan

Thanh Ngoc Phan

Santiago Pineda Izquierdo

Diogo Franco Graça Pires

Sanjay Pitchai

Papon Polcharoen

Nuttapol Puntavachirapan

Sean Patrick Purcell

Roberto Mario Rabines

Akshat Ramadurai Venkataraman

Esteban Ramirez Echavarria
(See also S.M., Course VI)
Discrete Event Simulation as a Predictor for Factory Traffic Management

Jennifer Elyse Ray
(See also S.M., Course I)
Energy and Decarbonization Technology Roadmap & Feasibility Analysis

Pedro Regojo Matarranz

David Rhodes

Margherita Ricotti

Gabrielle Rizika

Sara Romero Fernández

Cameron Gillis Russell

Renee Freitas Rust

Pincha Rutchatawuttipong

Ahmad Saaid Mohamed Saaid

Elizabeth Ann Salata
(See also S.M., Course VI)
Streamlining Diagnostics of Electrical-Connection-Related Errors in General Assembly Using Augmented Reality Wearables

Juan D. Saldaña

Mahmoud Saleh

Ophir Samuelov

Michael Sanchez

Rebecca Kim Sandercock

Ana Rafaela Gravelho Saraiva

Priyadarshani Mohamadi Sarkar

Timothy William Sauchuk

Marcel Josi Schaack

Sarah Cristina Schmid

Camila Medaglia Schuch

Kevin John Schurr
(See also S.M., Course XXII)
Towards Green Aluminum

Taylor Elizabeth Scull

Shweta Sen
(See also S.M., Course II)
Multi-Objective Optimization of Container Load Plans for Modulating Inventory Flow

Samuel Titus Ssebina Sentongo

Mark Patrick Serbent
(See also S.M., Course II)
Network Preparations for Networked Geothermal

Potchanaporn Seubhanich

Jack Emmett Freeman Shapiro

Eric Timothy Shaw, Jr.
(See also S.M., Course XVI)
An Operational Value Stream Analysis for Developmental Excellence

Naomi Shi

Tomohiro Shinoda

Rotem Shmuel

Tomer Shoher-Levy

Raj Shrimali

Sameed Muneeb Siddiqui
Advanced Architectures for Biological Sequence Modeling

Brenda Amanda Silva

Reid Jacob Silverhart

Riyah Singh

Julia Sarita Sircar
(See also S.M., Course I)
Process Optimization and Proactive Quality Control to Increase Investment Casting Throughput

Alex Sirgo
(See also S.M., Course II)
A Techno-Economic Assessment of Hybrid Renewable Energy and Battery Storage Systems for Data Centers

Tanner Elizabeth Skenderian

Mika Ellen Smith

Caroline Margheritte Sobek

Steffan Henderson Sowards
(See also S.M., Course VI)
Data-Driven Key Performance Indicator Modeling for Robotic Mobile Fulfillment Systems

Teetat Srethbhakdi

Elizabeth Marie Stasior

Hannah Dorothy Steadman

Jake Alexander Steckler

Emma Fallon Stone

Elinor Strawn

Gabriella Wita Yaritza Surbakti

Yoshihisa Tachibana

Kiyofumi Alex Takanishi

Francesco Tantoco

Patrick Stephen Thompson

Aaron Michael Thornton

Aathreya Thuppul

Beatriz Tomishige Alves Lima

Daniel Isher Seabrooke Tuana
(See also S.M., Course XXII)
A Technoeconomic Model for Maritime Applications of Green Power Technologies

Karen Tucker

Ma'ayan Tzoubari

Julian Uribe Giraldo

Arun Alejandro Varma
(See also S.M., Course VI)
Diagnostics in Additive Manufacturing Using Image-Based Machine Learning

Mahati Sri Vavilala

Gustavo Velez Arce

Nicole Paige Vereczkey

Maria Isabel Vivas Ramirez

Evan Wang

Yang Wang

Kai Nestor Wiederhold

Nathan Keene Wiegand

Muele Barisua Wilcox

Gabon Ttosam Williams

Asha Alexandria Wills

Barrett Mitchell Wolfson

Jennifer Sue Wolfson
The Role of Digital Hobos in the Felidae Economy

Angela Wu

Aaron W. Wubshet
(See also S.M., Course VI)
Closing the Gap: An Evaluation of Electromechanical Drug Delivery Devices through the Lens of the On Body Injector Market Landscape and Auto Injector Temperature Prediction Algorithms

Tiffany Jane Xi
(See also S.M., Course II)
Metal Additive Manufacturing Capabilities for Footwear Prototyping and Product Creation

James Thomas Yang

Kevin Samson Yang

Yutong Yao

Jonathan Chun Wai Yau

Ziyu Ye

Andrew You

Victoria Jiayi Yuan

Marcos George Zachary
(See also S.M., Course VI)
Driving Manufacturing Best Practices Using Multimodal AI

Muhammad Alif Aizat Bin Zahar

Zihan Zhang

James Xiaofeng Zhao

Xinyu Zhou

Minyuan Zhu

Ori Zilka

Ethan Kevin Zou

Master of Business Analytics

Course XV-N
Sloan School of Management

Fiona Aga
(September, 2024)

Gerardo Aguilar Padilla
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(September, 2024)

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(September, 2024)

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(September, 2024)

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Master of Finance

Course XV-F

Sloan School of Management

Amir Alalem Pavanello
(February, 2025)

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Xinyu Wu
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Xinyu Zhang
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Zehui Zhang
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Xincheng Zhou
(February, 2025)

Joris Benjaminas Zilinskis
(February, 2025)

Jiayi Zou
(February, 2025)

Master of Science in Management Studies

Course XV-S
Sloan School of Management

Md Mustabeen Ul Bari
Emerging Without a Blueprint: Generative AI's Sectoral Impact in Developing Economies

Nami Brillaud
The Role of University Venture Funds in Supporting Early-Stage Japanese Startups

Chung Jin Chuah
Breaking the Chain: Building Resilience in the Insurance Value Chain

Cyril Jaklis
Transforming Real Estate Underwriting: The Role of AI & ML in Overcoming Industry Bottlenecks

Mitchell David Kapor
Principles and Practices of Gap-Closing Investing

Rina Lagutina
Substitution among Social Media Platforms: Evidence from App Tracking Panel Data

Ying Liu
Predictive Modelling of Customer Membership Purchases to Minimize Marketing Costs

Mengmeng Ni
Policy Approaches and Entrepreneurial Responses in Strategic Industries: Comparing Innovation Ecosystems in China and the United States

Yijun Pan
Ant Group's Transformative Impact on China's Financial Industry

Rishabh Ganesh Shanbhag
Navigating Fintech Innovations: Strategic Insights from the United States and India

Cloe Alexandra Tchelikidi
Partnerships as Retention Levers: A Study of Credit Card-Entertainment Collaborations

Gauri Tike
Strategic Recommendations for Legacy Automakers in the Evolving Automotive Landscape

Sriya Venkatanarayanan
The Impact of Al Integration in Healthcare: Exploring Regulatory, Cultural, and Strategic Barriers

Lanchen Wu
Exploring the Dynamics of Regulatory Compliance, Cost Management, and Competition in the Pharmaceutical Industry.

Arnaud Zeng
Winning Over Gen Z: The Evolving Strategies of Sports Leagues and Media in Response to Changing Youth Habits

Qingjie Zeng
Made in Mexico: How Chinese Firms Navigate Nearshoring Amid Global Trade Disruptions

Hanxue Zhang
Comparative Analysis of Semiconductor Investment Environments in China and the US

Yu Zhang
Evaluating Impact Investing through a Systems Thinking Lens: Hallmarks of a Transformational Approach

Yuan Zhu
Bridging the Gap: Strategic Challenges and Roles of Chinese Fintech Entrepreneurs in Sub-Sahara African Markets

Master of Science in Management of Technology
Course XV-A
Sloan School of Management

Douglas Andrew Sutcliffe
A Nickel Short: Rethinking Element Scarcity in Pursuit of a Fusion-Powered World

Master of Science in Management Research
Course XV
Sloan School of Management

Mohammed Alsobay
(September, 2024)
The Effect of Social Information on Reliance and Efficacy in AI-Assisted Prediction

Quentin Batista
(September, 2024)
Impact of Central Bank Real Estate Purchases on Asset Prices

Fabio da Silva Soares
Intangible Investments and the Accrual-Cash Flow Relationship

Jason Du
(February, 2025)
Learning from Past Market Outcomes: Evidence from the Music Industry

Lei Huang
(February, 2025)
Designing Sustainable Recommender Systems

Justin Hildo Kaashoek
Searching with Intuition: Using LLM's to Perform a Search Through a High-Dimensional Space with Complex, Unknown Objectives

Jason Gwanhee Kim
Economic Determinants of Increased Use of Performance-Vesting Provisions in CEO Incentives

Jack Li
Corporate Debt Complexity and Equity Behavior

Zelin Li
In-or-Out: Creators' Odyssey for Success

Chen Liang
(September, 2024)
From Opinion Dynamics to Collective Action: How Asymmetric Tolerance Leads to Political Polarization

Benjamin Scott Manning
(September, 2024)
Automated Social Science: Language Models as Scientist and Subjects

Chengfeng Mao
(February, 2025)
Mining Multifaceted Customer Opinions from Online Reviews

Giuditta Perinelli
(September, 2024)
The Curve of Inflation Expectations and Firms' Investments

Nicholas Branimir von Turkovich
A Structural Approach to Measuring Time-varying Risk Aversion

Aishwarya P. Yadama
(February, 2025)
Dynamics of Diversity, Equity, and Inclusion Practice Adoption

Master of Science in Operations Research
Sloan School of Management in conjunction with the Schwarzman College of Computing

David Fersztand
(February, 2025)
Improving Bundle Methods: Complexity Analysis and Acceleration

Karla Mayra Perez Munoz
(See also M.B.A., Course XV)
An Optimization-Based Approach to Efficient Clearance Inventory Allocation

Jean-Baptiste Seby
(September, 2024)
Understanding Drivers of Deforestation using Games on Spatial Networks

Jacob Michael Wachspress
(September, 2024)
Optimizing Wildfire Suppression: A Branch-and-Price-and-Cut Approach

SCHOOL OF SCIENCE

Master of Science in Chemistry
Course V
Department of Chemistry

Marissa Dominique Allen
(September, 2024)
Systematic Studies on the Chelating Ligand Effects of Novel Borafluoronium Ions

Frida Nicole Angehrn Rodas
Solid-State NMR Characterization of a PET Ligand Binding Sites in AD Tau Fibrils

Alayna Marie Johnson
(February, 2025)
Polymer Deconstructability and Recyclability via Introduction of Cleavable Si-O Bonds

Michael Joseph Stopper, Jr.
Isolation and Reactivity of Carbene-Stabilized Carbon Disulfide Radical Anions

Master of Science in Biology
Course VII
Department of Biology

Ruth E. Hanna
How Listeria Monocytogenes Crosses Host Cell Barriers

Master of Science in Physics
Course VIII
Department of Physics

Pin-Chun Chou
Using Z-Hadron Correlations to Probe the Medium Response in PbPb and pp Collisions at √sNN = 5.02 TeV

Andrea Nicole Perry
Inferring Clonal Dynamics in Blood Using Single-Cell Measurements

Nicole Elizabeth Wales
(February, 2025)
A Critical Review of Thermalization and Hydrodynamic Behavior in Small System Collisions

Jacob Price Willis
Controlling for the Ionospheric and Baseline-Offset Uncertainties in the CHIME/FRB Outriggers VLBI Network for Milliarcsecond Precision

Master of Science in Brain and Cognitive Sciences
Course IX
Department of Brain and Cognitive Sciences

Quilee Simeon
C. elegans as a Platform for Multimodal Neural Data Integration

Sara Zoghi Tavana
(February, 2025)
Towards Understanding the Brain's Molecular Language

Master of Engineering in Computation and Cognition
Course VI-9
Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing

Emma Allya Chabane
(February, 2025)
Quantifying Writing Quality: Computational and Behavioral Perspectives on Short Story Evaluation

Jake M. Chuharski
On the Approximation Power of Continuous-Time Reservoir Computers

Itgel Delgerdalai
(September, 2024)
Exploration Dynamics: A Model of Infant Exploration Paths and Speeds

Ariadne Maria Dulchinos Marini
Smart Phone Digital Phenotyping Algorithms for Estimation of Circadian Disruption

Abigail Sakurai Dulski
Using Smartwatches and Smartwatch-Based Sensors for Optimizing Sleep Staging Algorithms and Personalized Sleep Enhancement Strategies

Emelie A. Eldracher
Para Rowing Biomechanics from Single Camera 3D Pose Estimation

Mohanned M. Elkholy
(February, 2025)
SCALE: Scalable and Cost-Efficient Domain-Specific Chatbots: Leveraging Contrastive Training and Serverless Architectures for Reliable Information Retrieval

Willem J. Guter
(September, 2024)
Natural Language Control for Visually Interactive Decision Support Tools in Supply Chain Management

Anka Hu
What You Learn from What You Can Never Know: Inferring about Knowledge and Competence from Mental Proofs

Ritika Jeloka
Multimodal Language Processing with Intracranial Recordings

Carol Jiang
(February, 2025)
Automating NWB Conversion for Evaluating ANNs with Brain-Score

Inori Kawauchiya
Spatial Transcriptomic and Translatomic Atlas of Adult Mouse

Ariba Khan
Randomness, Not Representation: The Unreliability of Evaluating Cultural Alignment in LLMs

Abigail Leah Klein
Advanced Data Analysis for Volume Controlled Cavity Expansion

Annika K. Magaro
(September, 2024)
Optimization Under Ecological Realism Reproduces Signatures of Human Speech Perception

Gustavo Ramirez
Data-Driven Tendon Force Estimation Using Magnetomicrometry

Shaunticlair W. Ruiz
Neural Network Adjoints in Ocean Emulation: Sensitivity Pathways in Samudra's Global Ocean Model

Reece Smoyer Shuttleworth
Toward a Spectral Understanding of Language Model Fine-Tuning

Miles B. Silva
Automating the K-SADS: Leveraging Large Language Models to Improve Mental Health Diagnoses

Opalina Vetrichelvan
Design and Optimization of Query-by-Example Pipelines for Music Similarity Search: A Comparison of Audio-to-Text and Audio Embedding Approaches

Alexis S. Yang
(February, 2025)
Inferring Enhancer Activity from Cell-Free DNA (cfDNA) Fragmentation

Master of Science in Earth and Planetary Sciences

Course XII
Department of Earth, Atmospheric, and Planetary Sciences

Abigail Marie Colclasure
First Visible Wavelength Lightcurves for the Northern Hemispheres of Titania and Oberon

Jack Goodspeed Payette
(February, 2025)
The Archean Origin of Assimilatory Sulfate Metabolisms Provides Novel Insight into Redox Conditions of Early Earth Environments

Sarah E. Wells-Moran
Putting Lipstick on a PIG: Modeling Pine Island Glacier (PIG) Shear Margin Collapse to Gain Insight on Future Ice Shelf Stability

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Master of Science in Mechanical Engineering

Seth Nathaniel Ammons
Course II
(September, 2024)
Survey Techniques to Examine Morphological Evolution of Coastal Regions

Austin Joseph Faddish
Course II
(September, 2024)
Estimating Surfzone Currents and Wave-Orbital Velocities with Infrared Cameras

Samantha Chan Garber
Course II
(September, 2024)
Analyzing Remote Sensing-Derived Normal Difference Vegetation Index to Predict Coastal Protection by Spartina Alterniflora

Charles Edward Murman II
Course II
(September, 2024)
Modeling Outer Sandbar Effects on Nearshore Waves and Morphological Change using SWAN

Master of Science in Electrical Engineering and Computer Science

Ethan Kendall Fahnestock
Course VI
(September, 2024)
Guiding Navigation of Unknown Environments with Distant Visual Cues

Paige Elizabeth Pfenninger
Course VI
(February, 2025)
Sub-Bottom Profiling Using an Autonomous Underwater Vehicle Equipped with a Sound Source and Towed Hydrophone Array

Master of Science in Biological Oceanography

Michael Joseph Meneses
Course VII
(February, 2025)
Vertical Distributions of Megafauna on Inactive Vent Sulfide Features Correspond to Their Feeding Modes

Master of Science in Physical Oceanography

Christian Michael Mier
Course XII
(September, 2024)
Cross-Shelf Exchange Driven by Dense Flow Down a Canyon

Sara Leslie Vianco
Course XII
(September, 2024)
The Origins of the East Greenland Coastal Current on the Northeast Greenland Shelf: A Comparison of Two Reanalysis Products

Master of Science in Aeronautics and Astronautics

Shashank Swaminathan
Course XVI
Distributed Exploration under Limited Communication and Resources

SCHOOL OF ARCHITECTURE AND PLANNING, DOCTORAL

Doctor of Philosophy

School of Architecture and Planning

Safinah Arshad Ali
(February, 2025)
Thesis in the field of Media Arts and Sciences: Artificial Intelligence Tools, Curricula, and Agents for Creative Learning

Alexandra A. Berke
(February, 2025)
Thesis in the field of Media Arts and Sciences: Data Futures: Transforming Digital Traces into Public Goods in the Age of Commercial Surveillance

William Walker Brannon
Thesis in the field of Media Arts and Sciences: Language Models as Opinion Models: Techniques and Applications

Joanna Buchthal
(February, 2025)
Thesis in the field of Media Arts and Sciences: Establishing Peromyscus Leucopus as a Model Organism Using Novel Camera-Based Reproductive Techniques

Alexander McCormick Curth
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Programmable Mud: Advancing Low-Carbon Design and Construction through Earth 3D Printing

Manuj Dhariwal
Thesis in the field of Media Arts and Sciences: Being. Creative. Together.: Designing Technologies that Center Human Connection, Co-Creativity, and Calm in the Era of AI

Shruti Dhariwal
Thesis in the field of Media Arts and Sciences: To Co- is Human: Designing Technologies that Center Human Connection, Co-Creativity, and Calm in the Era of AI

Alessandra Fabbri
(September, 2024)
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Nature Constructed: Conservation Discourses and the Political Regionalization of the Amazon

Yichun Fan
Thesis in the field of Urban Economics: Essays on Urban Resilience to Environmental and Health Risks

Snehalkumar Sambhaji Gaikwad
(September, 2024)
Thesis in the field of Society-Centered Artificial Intelligence: Public Interest Computing: A Pluralistic Design Language Foundation for Societal-Machine Alignment

Jingkang Gao
(September, 2024)
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: The Bidirectional Relationship Between Law and Algorithms in Urban Mobility

Eduardo Gascon Alvarez
(February, 2025)
Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Cooling with Less: Design and Simulation of Multifunctional Building Components for a Material-Efficient, Heat-Resilient Architecture

Roxanne Goldberg
(February, 2025)
Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Persian Lessons: Islamic Art in America, circa 1876–1925

Tsung-Han Hsieh
(September, 2024)
Thesis in the field of Media Arts and Sciences: Mechatronic Design and Evaluation of a Two-Degree-of-Freedom Powered Ankle-Foot Prosthesis with Myoneural Interfacing Capabilities

Ali Irani
Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Creating Space for HVAC Systems: A New, Intuition-Building Approach to HVAC System Integration in Architectural Education and Practice

Abhinandan Jain
(September, 2024)
Thesis in the field of Media Arts and Sciences: Interoceptive Interventions: Interfacing with Inner States

Hang Jiang
Thesis in the field of Media Arts and Sciences: Language Models as Mirrors and Bridges for Intergroup Communication

Mina Khan
(September, 2024)
Thesis in the field of Media Arts and Sciences: Investigating Interventions in Fine-grained Contexts for Habit Formation

Justin Matthew Kollar
Thesis in the field of Urban and Regional Studies submitted to the Department of Urban Studies and Planning: Silicon Frontier: Techno-statecraft and the Geopolitical Ecology of Digital Capitalism in the Pacific Basin

Joanne Sau Ling Leong
Thesis in the field of Media Arts and Sciences: Transformative Lenses: Empowering Learners with New Perspectives Using Generative AI and Augmented Reality

Courtney Louise Lesoon
(September, 2024)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Knowledge and the City: Redefining Islamic Urbanism, 762-1067

Xuan Luo
(September, 2024)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Architectures of Microbiality: From Diatoms to Diatom Houses

Robert Zev Mahari
Thesis in the field of Media Technology for Legal Artificial Intelligence: Toward the Computational Transformation of Legal Theory and Practice

Juan Camilo Osorio
(February, 2025)
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Planning Beyong Crisis: The Emergence of Insurgent Planning with Mocoa's 2017 Landslide

Pat Pataranutaporn
(September, 2024)
Thesis in the field of Media Arts and Sciences: Cyborg Psychology: The Art & Science of Designing Human-AI Systems that Support Human Flourishing

Carmelo Giuseppe Presicce
Thesis in the field of Media Arts and Sciences: Facilitating Creative Learning: Engaging in a Practice of Care

Sarah A. Rifky
(February, 2025)
Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Cultural Infrastructure: Art, Artists and Institutions in Egypt

Indrani Saha
Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: The Spiritual Curation of American Modernism

Belén Carolina Saldías Fuentes
Thesis in the field of Media Arts and Sciences: Towards Bridging and Governing Decentralized Communities

Ali M. Shtarbanov
Thesis in the field of Media Arts and Sciences: Modular Development Platforms and Creative Ecosystems: Design & Deployment for Wide Impact Across Fields

Abhishek Singh
Thesis in the field of Media Arts and Sciences: Decentralized Machine Learning Over Fragmented Data

Nikhil Uday Singh
(February, 2025)
Thesis in the field of Media Arts and Sciences: Bridging the Gap: Generative Machines and Inventive Minds

Wonyoung So
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Reparative Urban Science: Challenging the Myth of Neutrality and Crafting Data-Driven Narratives

Tobin South
Thesis in the field of Media Technology for Artificial Intelligence, Security, and Society: Private, Verifiable, and Auditable AI Systems

Chelsea Anne Spencer
(September, 2024)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: The Contract, the Contractor, and the Capitalization of American Building

Brian Jonars Besana Spielberg
(February, 2025)
Thesis in the field of International Development and Planning: The Hidden Roots of Neoliberal Success in Agrarian Transformation: State Engagement, Farmer Professionalization, and Technological Interdependence in the Senegal River Valley

Woongki Sung
(February, 2025)
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Floor Plan Design Collaborator: A Data-Driven Approach to Assist Human Architects in Design Exploration

Lavender Tessmer
(September, 2024)
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Volume Knitting: Designing Textiles in Cross Section with Embedded Properties

Jaleesa Sharee Trapp
(September, 2024)
Thesis in the field of Media Arts and Sciences: Creativity and Justice: Leveraging Creative Learning Principles to Co-Design Just Futures With and For Young People

Angela Vladimir Vujic
(September, 2024)
Thesis in the field of Media Arts and Sciences: Wearable Gut and Brain Interfaces for Modulating Good and Bad Emotions

Ramon Elias Weber
(September, 2024)
Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Spatial Computing for Building Performance and Design

Irmandy Wicaksono
(September, 2024)
Thesis in the field of Media Arts and Sciences: Textile Macroelectronics: Architecting Sensate Fabrics Across Scales

Ruihan Zhang
(February, 2025)
Thesis in the field of Media Arts and Sciences: Mapping the Spatial Transcriptome Across Whole Organisms

Yan Zhang
Thesis in the field of Media Arts and Sciences: DePUDS: Decentralized Prosocial Urban Development System

Guy Zyskind
(September, 2024)
Thesis in the field of Applied Cryptography and Security: Secure Computation in Decentralized Systems

SCHWARZMAN COLLEGE OF COMPUTING, DOCTORAL

Doctor of Philosophy

Schwarzman College of Computing

Marie-Laure Charpignon
(February, 2025)
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Evaluating the Effects of Pharmaceutical Interventions, Social Policies, and Exogeneous Shocks on People's Health and Behavior

Bernardo Garcia Bulle Bueno
(February, 2025)
Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Creating Links: Building an Educational Platform to Ask Relevant Questions in Education

Andreas A. Haupt
(February, 2025)
Thesis in the field of Engineering-Economic Systems: The Economic Engineering of Personalized Experiences

Sirui Li
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Learning-Guided Optimization for Intelligent Mobility Systems

Arnab Kumar Sarker
(February, 2025)
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Higher-Order Interactions in Social Systems

Leon Yao
(February, 2025)
Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Causal Inference under Privacy Constraints

SCHOOL OF ENGINEERING, DOCTORAL

Doctor of Science

School of Engineering

Humberto L. Caldelas II
Thesis in the field of Aeronautics and Astronautics: Hypervelocity Impact Flash Predictive Modeling

Michael Nathan Durso
(February, 2025)
Thesis in the field of Materials Science and Engineering: Characterization, Processing, and Synthesis of Extreme-Performance Continuous Carbon Nanotube Network Composites

Julian Rackwitz
Thesis in the field of Materials Science and Engineering: High-Strength High-Damping Steels

Doctor of Philosophy

School of Engineering

Keir Alexander Joseph Adams
Thesis in the field of Chemical Engineering and Computation: Geometric Representation Learning for Chemical Property Prediction, Structure Elucidation, and Molecular Design

Abhishek Jindal Aditham
(September, 2024)
Thesis in the field of Biological Engineering: Site-Specific Chemical and Topological Modifications to Augment mRNA Therapeutic Potential

Sayed Saad Afzal
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Wireless Systems for a Sustainable Future: From Battery-Free Subsea IoT to THz-Based Agriculture Monitoring

Vinayak Agarwal
(February, 2025)
Thesis in the field of Mechanical Engineering: Synthesis and Perception of Contact Sounds Reveals Auditory Intuitive Physics

Kwang Jun Ahn
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Making Sense of Training Large AI Models

Willow Marie Ahrens
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Sparse and Structured Tensor Programming

Anurag Ajay
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Composing Foundation Models for Decision Making

Ekin Akyurek
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Inference Time Learning Algorithms of Language Models

Alexander Joseph Andonian
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Multimodal Representation Learning for Agentic AI Systems

Maria Regina Apodaca Moreno
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: Data Management and Retrieval for an Atmospheric Probe Mission to Venus

Nicolas S. Arango
(February, 2025)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: B0 Field Control in High Field MRI with Local Multcoil Shim Arrays

Maitreyi Ashok
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Integrated Hardware Security for Practical and Low Overhead Protections

Anish R. Athalye
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Formally Verifying Secure and Leakage-Free Systems: From Application Specification to Circuit-Level Implementation

Manel Baradad Jurjo
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning to See with Synthetic Procedural Images

Alex Christopher Barksdale
Thesis in the field of Electrical Engineering and Computer Science: New Approaches to Diagnostic Imaging; Magnetic Particle Imaging (MPI) for Human Functional Neuroimaging and Short Mid-Field MRI Magnet Design

John Harry Bell IV
Thesis in the field of Mechanical Engineering: Modeling the Sit-to-Stand Transition using Koopman Lifting Linearization and Human State Estimation

Nicholas Gerald Belsten
Thesis in the field of Aeronautics and Astronautics: Embedded Computing for Wavefront Control on Future Space Telescopes

Ethan B. Benderly-Kremen
Thesis in the field of Materials Science and Engineering: Containerless Measurement and Thermodynamic Prediction of the Physical Properties of Liquid Steels

Amartya Shankha Biswas
(February, 2025)
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Tackling Algorithmic Problems on Massive Graphs

Rebecca Boiarsky
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Machine Learning Methods for Single Cell RNA-Sequencing Data to Improve Clinical Oncology

Katerina Boukin
(February, 2025)
Thesis in the field of Civil and Environmental Systems submitted to the Department of Civil and Environmental Engineering: Predicting Flood Risks to City Infrastructure Systems Utilizing Scalable, Time Sensitive Modeling

Charles Aymar Boury
Thesis in the field of Materials Science and Engineering: Sulfidation of Ternary Oxides: A Thermodynamic and Experimental Study Toward Selective Metal Extraction

Christopher Powell Bradley
(February, 2025)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Reasoning over Hierarchical Abstractions for Long-Horizon Planning in Robotics

Rebecca J. Brenneis
(September, 2024)
Thesis in the field of Civil and Environmental Engineering: Novel Earth Abundant Catalytic Materials for Abatement of Atmospheric Methane Sources, and Evaluation of Agricultural Deployment Environments

Julia Marie Briden
(September, 2024)
Thesis in the field of Aeronautics and Astronautics: Data-Driven and Dynamically Feasible Trajectory Generation for Real-Time Powered Descent Guidance and Robotic Exploration

Amelia Rose Bruno
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: Electrospray Thrusters in Chemical-Electric Multimode Propulsion for Small Satellites

Maureen Elizabeth Buckley
Thesis in the field of Biological Engineering: Engineering Detection Strategies for RNA Vaccines to Investigate Trafficking Mechanisms of Action

Steven J. Burcat
(February, 2025)
Thesis in the field of Mechanical Engineering: Design and Manufacture of a Modular Continuous Unit Dose Pharmaceutical Lyophilizer

Haoran Cai
(February, 2025)
Thesis in the field of Civil and Environmental Engineering: On the Nature and Measurement of Variational Bias: A Developmental Perspective

Xiaoyi Cai
(February, 2025)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Learning-Based Complex Terrain Navigation under Uncertainty

Jorge Cañada Pérez-Sala
Thesis in the field of Electrical Engineering and Computer Science: Additive Manufacturing of Electrical Machines and Electronic Devices

Pablo Cárdenas Ramírez
(September, 2024)
Thesis in the field of Biological Engineering: A Synthetic Biology Platform for Malaria Parasites Based on Orthogonal Transcriptional Control

Sarah Huiyi Cen
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Paths to AI Accountability

Geeticka Chauhan
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Learning to Improve Clinical Decisions and AI Safety by Leveraging Structure

Kexin Chen
(February, 2025)
Thesis in the field of Civil Engineering submitted to the Department of Civil and Environmental Engineering: Analyzing the Impacts of Advanced Technology on Transportation Systems

Xiang Chen
(September, 2024)
Thesis in the field of Applied Plasma Physics: Computational Design of a Novel Soft X-ray Based Turbulence Diagnostic in NSTX-U

Matthew Chignoli
Thesis in the field of Mechanical Engineering: A Model-Based Planning and Control Framework for Parkour-Style Legged Locomotion

Elizabeth Yoonjeong Choe
(February, 2025)
Thesis in the field of Biological Engineering: A Systems Analysis of DNA-Damaging Therapy-Associated Antigens in Glioblastoma

Dongsung Choi
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Light-Induced States and Phase Transitions in Quantum Materials Investigated by Photoemission Spectroscopy and Epitaxial Synthesis

Daniel Benjamin Kasman Chu
Thesis in the field of Chemical Engineering: Models and Methods for Efficient and Accurate Transition Metal Catalyst Discovery with Density Functional Theory

Hyunwon Chu
Thesis in the field of Materials Science and Engineering: Exploring Local Chemistry and Transport Kinetics at Homo- and Hetero-Interfaces: Enabling Safe and Fast-Conducting Lithium Solid-State Electrolytes

Sunho Chung
Thesis in the field of Biological Engineering: Analyzing Distributed Neural Bases of Brain-Computer Interfaces in Animals

Valentin Roland Churavy
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Language Evolution for Parallel and Scientific Computing

Gabriele Corso
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Modeling Biomolecular Interactions with Diffusion Generative Models

Aidan Curtis
Thesis in the field of Electrical Engineering and Computer Science: Generalizable Long-Horizon Robotic Manipulation Planning Under Uncertainty and Partial Observability

Zheng Dai
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Safe and Ethical Implementation of Intelligent Systems

Madhurima Das
(February, 2025)
Thesis in the field of Mechanical Engineering: Assessing Impacts of Digital Sketching on Concept Generation in Early Stage Design

Anisha Datta
Thesis in the field of Biological Engineering: Investigating the Effects of Axl Inhibition on the Tumor Immune Microenvironment in Human In Vitro Model Systems

Rishabh Datta
(September, 2024)
Thesis in the field of Mechanical Engineering: Radiatively Cooled Magnetic Reconnection Experiments Driven by Pulsed Power

Rosemary Katherine Davidson
Thesis in the field of Aeronautics and Astronautics: Enabling End-to-End Sensitivity Analysis of Integrated Models

Miranda Lee Dawson
(September, 2024)
Thesis in the field of Biological Engineering: From the Body to the Brain: Studying Drug Delivery and Physiological Interactions Using MRI

Pablo Allende Dean
Thesis in the field of Chemical Engineering: Understanding Competitive Sorption in Microporous Polymer Membranes to Enhance Gas Separation Performance

Leo R. de Castro
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Maliciously Secure Computation, Theory and Practice

Annick Jade Dewald
(September, 2024)
Thesis in the field of Aeronautics and Astronautics: An Integrated Vehicle, Payload, and Trajectory Optimization Framework for Highly Coupled Aircraft Systems

Theo John Diamandis
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Convex Network Flows

Michelle Zarrella Dion
(February, 2025)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineered Biomaterials for Brain Tumor Immunotherapy

Sydney Dolan
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: Leveraging Information Sharing for Satellite Navigation and Coordination

Xiaorui Dong
(September, 2024)
Thesis in the field of Chemical Engineering: Automatic Generation of Chemical Kinetic Models for Biofuel Oxidation and Pyrolysis

Hamid Doost Hosseini
Thesis in the field of Chemical Engineering: Predicting and Expanding the Operational Envelope of Genetic Circuits

Brandon Arthur Dorr-Swendig
Thesis in the field of Biological Engineering: Engineering Enzyme Reactions Towards Synthesis of Challenging High-Value Products

Tyler John Dougan
(September, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Single-Molecule Diagnostics to Support Curative Interventions for Tuberculosis and HIV

Ian Patrick Barry Dowding
(February, 2025)
Thesis in the field of Materials Science and Engineering: Experimental Quantification of the Phonon Drag Deformation Mechanism in Metals at Extreme Strain Rates

John Michael Drago
Thesis in the field of Electrical Engineering and Computer Science: Mitigating Inhomogeneity in High-Field MRI Excitations: Arbitrary Waveform Optimization and Multiphoton Parallel Transmission (MP-pTx)

Jules Guillaume Jacques Benony Dréan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Hardening Trusted Execution Environments Against Microarchitectural Side-Channel Attacks: A Constructive Approach

Lucy W. Du
(September, 2024)
Thesis in the field of Mechanical Engineering: Design and Evaluation of a Powered Series-Elastic Cycloidal Ankle (CyAn) Prosthesis

Yilun Du
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Learning Generalizable Systems by Learning Energy Landscapes

Colin Christian Eckhoff
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Additively Manufactured, Cost-Effective Quadrupole Mass Filters for Analytical Grade Mass Spectrometry

Skylar Eiskowitz
(September, 2024)
Thesis in the field of Aeronautics and Astronautics: Application of Revenue Management to Satellite Communications

Barış Can Ekim
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Minimizer-Space Computation

Daniel Erkel
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Architecting Optimal (Space) Strategies: A Quantitative Framework

Feyisayo R. Eweje
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Self-Assembling Protein Nanoparticles for Cytosolic Delivery of Therapeutic Macromolecules

Jideofor Agunwa Ezike
Thesis in the field of Computational and Systems Biology: Applications of Native and Engineered Genetic Barcodes in Single-Cell RNA-Sequencing Data to Study Clonal Evolution and Cellular Phenotypic Diversity

Axel Stephan Feldmann
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Designing Hardware Accelerators for Solving Sparse Systems of Linear Equations

Meng Feng
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Risk-Aware Reinforcement Learning with Safety Constraints

Zi Hao Foo
(September, 2024)
Thesis in the field of Mechanical Engineering and Computational Science: Critical Material Recovery from Salt-Lakes and Spent Batteries with Membranes and Solvents

Camilo Luciano Fosco
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Video Understanding in Biological and Artificial Neural Networks

Katharina Ann Fransen
Thesis in the field of Chemical Engineering: Structure - Property Relationships for Sustainable Packaging Material Development

Joshua Samuel Fried
Thesis in the field of Electrical Engineering and Computer Science: Next Generation Operating Systems for the Datacenter

William Tian Funkenbusch
(September, 2024)
Thesis in the field of Chemical Engineering: Brownian Dynamics Simulation of Soft Matter with Hydrodynamics: Methods for Constrained Systems and Shear Processing of 2D Materials

James Bryan Crowley Gabbard
(February, 2025)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: High Order Immersed Finite Difference Methods for Complex Domains with Moving Boundaries and Interfaces

Stephanie Alana Gaglione
Thesis in the field of Chemical Engineering: High-Throughput Tools for Decoding T Cell Receptor Specificity

Mingye Gao
Thesis in the field of Electrical Engineering and Computer Science: Systematic Development of Healthcare AI: Integrating Data Curation, Algorithm Optimization, Benchmark Design and Clinical Applications

Wenhao Gao
Thesis in the field of Chemical Engineering: Toward Efficient and Synthesizable In-Silico Molecular Design

Timur Garipov
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Guiding Deep Probabilistic Models

Aditya Avinash Ghodgaonkar
Thesis in the field of Mechanical Engineering: Design Theories for Compact, Low-Energy, Clog-Resistant Drip Irrigation Emitters

Viraat Yogi Goel
(See also M.B.A., Course XV)
Thesis in the field of Biological Engineering: Deeply Resolving Chromatin Microarchitecture and Mechanisms of 3D Genome Organization

Noah Z. Golowich
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Statistical and Computational Foundations of Learning under Interaction: Learning in Games and Reinforcement Learning

Diana Nicole Gong
Thesis in the field of Biological Engineering: Developing Approaches to Characterize Heterogeneity in Immune Correlates of Protection in Tuberculosis

Matthew Bibber Goss
(September, 2024)
Thesis in the field of Environmental Chemistry submitted to the Department of Civil and Environmental Engineering: Laboratory Studies of Atmospheric Photochemistry in Indoor and Outdoor Environments

Nishad Date Gothoskar
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scaling 3D Scene Perception via Probabilistic Programming

Miela Josephine Gross
Thesis in the field of Electrical Engineering and Computer Science: Domain Wall Based Magnonic Devices

Karl Samuel Gruetter
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Techniques for Foundational End-to-End Verification of Systems Stacks

Theodore Wu Grunberg
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Approximation and System Identification Techniques for Stochastic Biomolecular Systems

Cal Abbe Love Gunnarsson
Thesis in the field of Biological Engineering: Measuring and Perturbing Intramacrophage Bacterial States from Bulk to Single-Cell Resolution

Fatima M. Gunter-Rahman
(February, 2025)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Examining the Placenta's Role in Neurodevelopment in the Context of Maternal Obesity

Sarah Gurev
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning from Pre-Pandemic Data to Design and Test Future-Proof Therapeutics

Georgy Dmitrievich Guryev
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Fast Methods for Full-Wave Electromagnetic Solvers in MRI

Mark Thomas Hamilton
Thesis in the field of Electrical Engineering and Computer Science: Unsupervised Structure Discovery with Foundation Models

Isaac Benjamin Winston Harris
(February, 2025)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Engineering Scalable Quantum Systems; From First-Principles Understanding to VLSI Control

Chase Michael Hartquist
Thesis in the field of Mechanical Engineering: Fracture Mechanics of Networks

Muhammad Usama Hasan
Thesis in the field of Materials Science and Engineering: Fundamentals, Voltage Control and Novel Application of Exchange Bias in Magnetic Thin Films

Hao He
Thesis in the field of Electrical Engineering and Computer Science: Contactless Sleep and Physiological Monitoring via Artificial Intelligence and Wireless Sensing

Elizabeth Mary Healey
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Precision Medicine in Diabetes Using Continuous Glucose Monitoring

Erik Helstrom
Thesis in the field of Environmental Chemistry submitted to the Department of Civil and Environmental Engineering: New Measurement Approaches to the Study of Secondary Organic Aerosol

Kristan Muno Hilby
(February, 2025)
Thesis in the field of Mechanical Engineering: Design and Control of a Stop-Rotor Aircraft Enabled by Morphing Wings

Alexander Paul Hillman
(February, 2025)
Thesis in the field of Engineering Systems submitted to the Department of Aeronautics and Astronautics: A Systems-Theoretic Approach to Design of Early Concepts for Novel, Complex Systems in Aerospace

Rachel Mara Holladay
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Leveraging Mechanics for Multi-Step Robotic Manipulation Planning

Zhang-Wei Hong
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Generative Discovery via Reinforcement Learning

Dominique S. Hoskin
(September, 2024)
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Direct Numerical Simulations of a Transitional Hypersonic Shock Wave-Boundary Layer Interaction

Justin Tony Hou
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Hybrid Magnonics in Antiferromagnets and Cavity Spintronic Devices

Jeff Ching Hsiao
(February, 2025)
Thesis in the field of Biological Engineering: The Regulation of Innate Immune Cells by Mucins and Mucin *O*-Glycans

Zhongqiang Hu
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Interactive Spin Dynamics in Magnon and Quantum Spin Systems

Brice Huang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Statistical and Algorithmic Thresholds in Spin Glasses

Tianhao Huang
Thesis in the field of Electrical Engineering and Computer Science: Efficient Systems for Large-Scale Graph Representation Learning

Sandra Walter Huffman
Thesis in the field of Contextualized Technical Capabilities in Engineering Studies: Fractured Practices: How Schooling Norms Limit Modeling Practices in Traditional Technical Thermal-Fluids Engineering Courses -- And the Possibilities Emerging through the Cracks

Minyoung Huh
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Simplicity, Scale, and Convergence in Deep Neural Networks

Nathan Ray Hunt
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Utilization and Synthesis of Symbolic World Models for Safe, Generalizable, and Efficient Action

Andrew Ilyas
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Data, to Models, and Back: Making Machine Learning Predictably Reliable

Hannah Dale Jackson
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Monitoring and Treating Neurological Conditions Through Focal Interfacing with the Brain

Athul Paul Jacob
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Building Strategic AI Agents for Human-Centric Multi-Agent Systems

Vineet Jagadeesan Nair
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Coordination of Distributed Energy Resources for a Reliable, Resilient, and Affordable Decarbonized Grid

Tejas Kumar Jayashankar
Thesis in the field of Electrical Engineering and Computer Science: Score Estimation for Generative Modeling

Jackson Lee Jewett
Thesis in the field of Civil and Environmental Engineering: Topology Optimization of Buildings-Scale Structures with Material and Fabrication Constraints

Christina Xinyue Ji
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Characterizing Variation in Healthcare across Time and Providers using Machine Learning

Lingbo Ji
(February, 2025)
Thesis in the field of Mechanical Engineering: Numerical Investigations of Vortex Dynamics: Bursting, Twist Waves, and Sensitivity Analysis

Kai Jia
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Modeling Rational Agents with Limited Capability

Kaiyi Jiang
Thesis in the field of Biological Engineering: Harnessing Biological Diversity and Machine Learning to Build a Cell Engineering Toolbox

Ce Jin
Thesis in the field of Electrical Engineering and Computer Science: Exploiting Additive Structure in Algorithm Design and Fine-Grained Complexity

Charles Chuan Jin
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: On the Acquisition of Semantics in Statistical Models of Language

Jiejun Jin
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Information-Centric Algorithms for Feature Extraction in High-Dimensional Sequential Data

Tianyi Jin
Thesis in the field of Chemical Engineering: Design of Single-Chain Polymer Nanoparticles to Mimic Globular Proteins

Blake Andrew Johnson
Thesis in the field of Chemical Engineering: Catalytic Implications of Confined Solvent Ensembles within Lewis Acidic Zeolites

Sydney Rose Johnson
(See also M.B.A., Course XV)
Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Analysis of Steel Decarbonization Strategies and Supply Chain Integration

Michael Paul Jones, Jr.
(September, 2024)
Thesis in the field of Aeronautics and Astronautics: A Game Theoretic Approach to Resilient Space System Design

Allison Catherine Kaczmarek
Thesis in the field of Materials Science and Engineering: Growth-Induced Cation Order and Magnetic Anisotropy Engineering in Iron Garnet Thin Films

Emily Alexis Kamienski
Thesis in the field of Mechanical Engineering: Estimation, Learning, and Control for Dynamic Physical Interactions Between Humans and Robots with Applications to Fall Prevention

Anthimos-Vardis Kandiros
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Estimation, Prediction and Counterfactual Inference with Dependent Observations

Nedeljko Karaulac
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: A Technology Platform for Enabling Next-Generation Vacuum Electronic Devices Based on Silicon Field Emitter Arrays

Tushar Sanjay Karnik
(September, 2024)
Thesis in the field of Materials Science and Engineering: Integration of Quantum Cascade Lasers with Photonic Circuits

William Reed Kendrick
(September, 2024)
Thesis in the field of Nuclear Science and Engineering: Neutronic-Thermal Simulation of Micro Reactor Designs for the Purpose of Analyzing the Impact of Thermal Expansion and Hydrogen Migration in Metal Hydride Moderator

Charles Khazoom
Thesis in the field of Mechanical Engineering: Tailoring Complexity of Model-Based Controllers for Legged Robots

Farhan Khodaee
(February, 2025)
Thesis in the field of Mechanical Engineering: Methods in Mapping the Genotype-Phenotype Relationship

Haeseong Kim
(February, 2025)
Thesis in the field of Nuclear Science and Engineering: Inferencing Techniques for Enhanced Monitoring of Thermal-Fluid Systems

Hyun Min Kim
Thesis in the field of Biological Engineering: Engineering DNA Origami Nanoparticles for Therapeutic Nucleic Acid Delivery

Ye Ji Kim
Thesis in the field of Materials Science and Engineering: Magnetic Nanodiscs for Behavioral Modulation and Therapeutic Applications

Irena Victoria King
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Origin and Correlates of Viral Rebound in SIV-Infected Rhesus Macaques Following Discontinuation of ART

Aly Fouad Kombargi
Thesis in the field of Mechanical Engineering: Optimized Sustainable Hydrogen Generation from Liquid Metal Activated Aluminum-Water Reactions

Dimitris Konomis
(February, 2025)
Thesis in the field of Computational Science and Engineering: Max-Stable Processes, Measure Transport & Conditional Sampling

Bon Ho Koo
Thesis in the field of Mechanical Engineering: The Development and Utilization of Tandem Fluency in Human-Exoskeleton Interaction

Evan Laith Kramer
Thesis in the field of Aeronautics and Astronautics: Visibility in Synthetic Aperture Radar Satellite Data: Metric Formulation, Observation Scheduling, and Orbit Design

Joseph Charles Kreitz
Thesis in the field of Biological Engineering: Engineering Bacterial Contractile Injection Systems into Programmable Cargo Delivery Vehicles

Jonathan Rainer Krog
(February, 2025)
Thesis in the field of Biological Engineering: Optimization of Peptide-MHC Specific Binders

Emily Stephanie Krucker Velasquez
(February, 2025)
Thesis in the field of Chemical Engineering: On the Dynamics and Interparticle Forces of Electrostatically Stabilized Colloidal Suspensions

Justin Haruaki Kunimune
Thesis in the field of Nuclear Science and Engineering: Implementation and Use of Novel Nuclear Diagnostics and Neural Networks to Diagnose 3D Morphology and Power Balance in Inertial Confinement Fusion Implosions at OMEGA and NIF

Martina Stadler Kurtz
(September, 2024)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Towards Efficient Planning for Navigation using Global Information in Large and Uncertain Environments

Benjamin Mark Lahner
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Characterizing Human Vision through Large-Scale Brain Imaging and Computational Models

Kimberly Kate Lamberti
(February, 2025)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Leveraging Right and Left Ventricular Coupling for Optimization of Mechanical Circulatory Support

Hunter J. Lang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning from Weak Supervision: Theory, Methods, and Applications

Hugo Larocque
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Programmable Interactions between Optical Fields and Atom-Like Systems in Integrated Circuits

Blake Harrison Lash
Thesis in the field of Biological Engineering: Engineering Retroelement Capsids as Modular Gene Therapy Delivery Vectors

Nikita Lazarev
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Taming Data Movement Overheads in Modern Cloud Servers

Owen Leddy
Thesis in the field of Biological Engineering: An Immunopeptidomics Approach to Understanding Antigen Presentation in Mycobacterium Tuberculosis Infection

Di Sheng Lee
(September, 2024)
Thesis in the field of Biological Engineering: Design of Natural Melanin Peptides with Multispectral Properties

Sheng-Hung Lee
Thesis in the field of Mechanical Engineering: Design for Longevity: Service and System Innovation

W. David Lee
(February, 2025)
Thesis in the field of Mechanical Engineering: Photoacoustic Imaging of NADH in Neurons

Woo Seok Lee
(September, 2024)
Thesis in the field of Materials Science and Engineering: Exciton Dynamics and Anisotropy in 2D Metal Organochalcogenolate Semiconductors

Alexander Y. LeNail
Thesis in the field of Computational and Systems Biology: Computational Design of Transcription Factor Gene Therapies to Reverse Age-Associated Neurodegeneration

Pablo Alejandro Leon
Thesis in the field of Materials Science and Engineering: Integrating Chemistry-Informed Approaches with Atomistic Simulations to Elucidate Ion Diffusion Mechanisms in Polymer Electrolytes

Matthew Joseph Leventhal
(February, 2025)
Thesis in the field of Computational and Systems Biology: Revealing the Biological Processes Underlying Neurodegenerative Diseases with Systems Biology Approaches

Itai Levin
(September, 2024)
Thesis in the field of Biological Engineering: Computer-Aided Synthesis Planning and Molecular Design for Molecules Made with Enzymes

Alexander Lew
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Automatic Integration and Differentiation of Probabilistic Programs

John Robert Lewandowski
(September, 2024)
Thesis in the field of Mechanical Engineering: Low-Cost Magneto-Optic Diagnostic using Bio-Functionalized Magnetic Nanoparticles

Beichen Li
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Quality-Centric Single-Image Procedural Material Generation

Fengyi Li
(September, 2024)
Thesis in the field of Computational Science and Statistics: New Tools for Bayesian Optimal Experimental Design and Kernel Methods for Generative Modeling

Tianhong Li
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Unified Framework for Visual Recognition and Generation via Masked Generative Modeling

Tianyu Li
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Performant and Resilient Service Composition for Modern Cloud Applications

Yujun Lin
Thesis in the field of Electrical Engineering and Computer Science: Advancing Deep Learning Efficiency: From Specialized Co-Design to Automated Generation

Allen X. Liu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning Theoretic Foundations for Understanding Quantum Systems

Nuo Liu
Thesis in the field of Computational and Systems Biology: Decoding Disease Drivers Through Single-Cell Omics and Scalable Phenotypic Screens

Shiqing Liu
(February, 2025)
Thesis in the field of Civil and Environmental Systems submitted to the Department of Civil and Environmental Engineering: Detection and Localization of Pressure Transients in Water Distribution Systems

Ming Yang Lu
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Data-Driven General Purpose Foundation Models for Computational Pathology

Ziqi Lu
(February, 2025)
Thesis in the field of Mechanical Engineering: Addressing Challenges in Object-Based Robot Navigation and Mapping

Tyler Jared Lucas
Thesis in the field of Materials Science and Engineering: Quantifying Plasticity and Temperature in High Velocity Microparticle Impacts

Yiyue Luo
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Intelligent Textiles for Physical Interactions

Karima Choulin Ma
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Domain-Specific Program Synthesis

Pingchuan Ma
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Building World Models with Neural Physics

Kamal Mustafa Maher
Thesis in the field of Computational and Systems Biology: Fundamental Representations of Regions and Interactions in Spatial Transcriptomics

Sunil Rohit Mair
Thesis in the field of Materials Science and Engineering: Solid-State Electrolytes: From Theoretical Understanding of Ion Conduction Mechanisms to the Design of Novel Electrochemical Devices

Swathi Manda
(February, 2025)
Thesis in the field of Mechanical Engineering: Continuous Biomolecular Sensing Using DNA Nanopores as Programmable Ionic-Electronic Interfaces

Xinyu Mao
(September, 2024)
Thesis in the field of Mechanical Engineering: Hydrodynamics, Trajectories, and Trade-Offs in Particle Separation Systems

Colin Rhodes Marcus
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Conformable Devices and Architectures for Ultrasound Imaging

Evan Keefe Massaro
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Accelerating and Stabilizing Direct Monte Carlo Methods in Systems with a Wide Range of Rarefactions

Surya Mathialagan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Succinct Cryptography via Propositional Proofs

Kaylee Lynn Lynn McCormack
Thesis in the field of Chemical Engineering: Transition Metal Heterogeneous Catalysis Towards Applications in Sustainable Energy: Leveraging Rational Design Principles for Activity, Stability, and Stereoselectivity

Patrick Calvin McKeen
(February, 2025)
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Computational Methods to Improve Satellite Attitude Determination and Control with a Focus on Autonomy, Generalizability, and Underactuation

James Christopher McRae
Thesis in the field of Mechanical Engineering: Ingestible Devices for Continuous Health Monitoring and Autonomous Drug Delivery

Owen Anthony Medeiros
Thesis in the field of Electrical Engineering and Computer Science: Superconducting Nanowire Integrated Circuits for Scalable Cryogenic Memory

Nikolaos Meimetis
Thesis in the field of Biological Engineering: Computational Omics Translation Models for Designing Better Experimental Disease Models

Adam Joseph Miller
Thesis in the field of Electrical Engineering and Computer Science: Generative Latent Motion Planning and Reinforcement Learning for Legged Locomotion

Marco Andrés Miller, Hernández
Thesis in the field of Nuclear Science and Engineering: Understanding the Mechanisms that Determine the Edge Electron Density Profile in Tokamaks

Aditya Misra
(September, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Tissue-Encoded Design Principles of Host Defense

Jonathan Evan Mitchel
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Computational Methods for Dissecting Multicellular Mechanisms of Complex Diseases

Thomas J. Murphy III
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: OPTASAT: An Open-Source, Flexible Software Framework for Small Satellite Operations

Narumi Nagaya
(February, 2025)
Thesis in the field of Chemical Engineering: Singlet Exciton Fission-enhanced Silicon Photovoltaics: Interfacial Engineering, Device Design and Spectroscopic Technique Development

Moses Chong-ook Nah
(February, 2025)
Thesis in the field of Mechanical Engineering: Modular Robot Control with Motor Primitives

Domenic N. Narducci
Thesis in the field of Biological Engineering: Elucidating Single-Molecule Transcription Factor Binding Dynamics and Their Implications for Gene Regulation

Pradeep Natarajan
(September, 2024)
(See also S.M., Course X-A)
Thesis in the field of Chemical Engineering: Discovering Non-Equilibrium Mechanisms that Regulate Structure and Function of Biomolecular Condensates Using Phase-Field Modeling

Yannick Naunheim
(September, 2024)
Thesis in the field of Materials Science and Engineering: Alloys Designed for Rapid Solid-State Sintering

Siddharth Nagar Nayak
Thesis in the field of Aeronautics and Astronautics: Stairway to Autonomy: Hierarchical Decision-Making for LLM-Guided Planning, Bandit-Driven Exploration, and Multi-Agent Navigation

Aviv Netanyahu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Methods for Generalization under Distribution Shift

Edwin Nicholas Neumann
Thesis in the field of Biological Engineering: Engineering Compact Epigenetic Editors for Therapeutic Intervention in the Brain

Daniel Siukei Ng
(February, 2025)
Thesis in the field of Materials Science and Engineering: Grain Boundary Solute Segregation in Vanadium

John Prakash Niroula
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Thermally Hardened RF GaN HEMTs for Extreme Environments

Michael Philip Nitzsche
(February, 2025)
Thesis in the field of Mechanical Engineering: Multiscale Engineering of Electrochemically Mediated Carbon Capture Systems

Michael Scott Noseworthy
Thesis in the field of Electrical Engineering and Computer Science: Adaptive Abstractions for Robust Hierarchical Manipulation Planning

Kalon J. Overholt
Thesis in the field of Biological Engineering: Principles of Biomolecular Assembly in Gene Control

Ufuoma Ovienmhada
(September, 2024)
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Opportunities and Limitations of Earth Observation Technology for Environmental Justice Advocacy: A Case Study of Toxic Prisons in the U.S.

James Thomas Owens II
Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Integrated Modeling Approaches to Quantify Vehicle-to-Grid Services in an Evolving Power Sector

Anil Krishna Palepu
(February, 2025)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Natural Language Foundation Models in Medical Artificial Intelligence

Bowen Pan
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Low-Cost Agents with Synthetic Data and Dynamic Inference

Hao-Wei Pang
(September, 2024)
Thesis in the field of Chemical Engineering and Computation: Automatic Generation of Chemical Kinetic Models Including Macromolecules in Multiphase Systems

Sung Min Park
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Machine Learning through the Lens of Data

Abhishek Patkar
(February, 2025)
Thesis in the field of Mechanical Engineering: System Identification and Control with Applications to Electric Motors

Ryan Wade Penny
(September, 2024)
Thesis in the field of Mechanical Engineering: Advanced Instrumentation for Metal Additive Manufacturing

Caleb Ricardo Perez
(September, 2024)
Thesis in the field of Biological Engineering: Deconstructing the CAR Signaling Landscape to Identify Drivers of Engineered T Cell Function

Joshua Andrew Perozek
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Novel Structures for Scalable Vertical Gallium Nitride Power Devices

Matthew James Perron
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Elasticity in Cloud Analytical Database Management Systems

Nina T. Petelina
Thesis in the field of Mechanical Engineering: Integrated Prosthetic Leg Design Frameworks for People with an Above-Knee Amputation

Daniel N. Pickard
(February, 2025)
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: A Computational Thermo-Chemo-Mechanics Framework for the Large-Scale Simulation of Material and Structural Failure in Hypersonic Environments

Andrew John Pickering
(February, 2025)
Thesis in the field of Chemical Engineering: Layer-by-Layer Nanoparticles for Targeted Delivery and Treatment of Glioblastoma

Randall Alan Pietersen
Thesis in the field of Civil and Environmental Engineering: Hyperspectral Remote Sensing for UXO Detection and Damage Assessment on Airfield Pavements

Sergio Sebastian Pineda
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Single-Cell Dissection of Vulnerable Cell Types and Disease Mechanisms across Neurodegenerative Motor Disorders

Benoit Marc Pit--Claudel
Thesis in the field of Electrical Engineering and Computer Science: Principled Approach for Latency Reduction in Networking Systems

Justin Wei Siang Poh
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: A Systems-Theoretic Framework for Safety-Driven Development of System Architectures

Ryan Joseph Mar Poon
Thesis in the field of Mechanical Engineering: Advancing Tendon-Driven Robotic Systems: From Climbing Robots to String Actuators

Cosmin-Constantin Popescu
Thesis in the field of Materials Science and Engineering: Improving the Reliability of Optical Phase Change Materials-Based Devices

Owen Thomas Porth
Thesis in the field of Biological Engineering: A Platform for Engineering Cyclotide Therapeutics

Jian Qian
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: On the Sample Efficiency of Data-Driven Decision Making

Yu Qiu
(September, 2024)
Thesis in the field of Civil and Environmental Engineering: Fluid-Fluid Displacement in Porous-Media Microfluidics

Jill Marie Rahon
(September, 2024)
Thesis in the field of Nuclear Science and Engineering: Compact Capabilities: Developing and Evaluating a Field-Portable Neutron Resonance Capture Analysis System

Sudarsanan Rajasekaran
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Optimizing Networked Systems for Artificial Intelligence Training Workloads

Shraddha Rana
(February, 2025)
Thesis in the field of Transportation and Logistics Systems: Freight Distribution During Disasters: Measuring and Improving Operational Performance of Critical Systems

Luigi Ranno
Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Scalable Packaging and Integration Solutions for Next-Generation Photonic Systems

Sujit Kajana Rao
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Quantum Aspects of Sum-of-Squares

Michael James Ream
Thesis in the field of Chemical Engineering: Dynamic Regulation of Metabolic Flux Using Orthogonal Quorum Sensing

Zhijian Ren
Thesis in the field of Electrical Engineering and Computer Science: Towards Achieving Power Autonomy in Micro Aerial Robots

Erin E. Reynolds
Thesis in the field of Chemical Engineering: Elucidation of Gene Clusters Underlying Withanolide Biosynthesis in Ashwagandha

Gavin Keith Ridley
(September, 2024)
Thesis in the field of Computational Nuclear Science and Engineering: GPU-Oriented Algorithms for Monte Carlo Neutron Transport Calculations

Katelyn Marie Ripley-Kenyon
Thesis in the field of Chemical Engineering: Leveraging System-Level Analyses and Technoeconomic Modeling to Inform the Viability of Electrochemically-Mediated CO2 Separation

Christopher William Rodriguez
Thesis in the field of Computational and Systems Biology: The Limits of Longevity

Anna Michelle Romanov
Thesis in the field of Biological Engineering: DNA Origami Nanoparticles as a Programmable Vaccine Platform for Investigating Humoral Immunity

Branden Robert Romero
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Robot Hand Function: Co-Design of Actuation, Tactile Sensing, and Algorithms for Robotic Dexterous Manipulation

Zhenyuan Ruan
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Utility Computing in Datacenters

Simon Béat Rufer
Thesis in the field of Mechanical Engineering: Electrochemical Architectures for Reducing the Cost and Capital Intensity of CO2 Removal and Conversion

Gilhyun Ryou
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Multi-Fidelity Optimal Trajectory Generation: Optimal Experiment Design for Robot Learning

Erik Karl Saathoff
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Power Electronics-Enabled System Identification

Antonio Gabino Salazar Martín
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Endothelial Cell Plasticity as a Marker of Vascular Disease and Predictor of Adverse Outcomes to Stress

Andrew Louis SaLoutos
Thesis in the field of Mechanical Engineering: Development of a Hierarchical Reflexive Control Framework for Autonomous Robotic Manipulation

Michael Sebastian Schmid
Thesis in the field of Aeronautics and Astronautics: An Assessment Framework for Safety-Critical Applications of Machine Learning

Elena Sergeeva
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Building Small Domain-Specific Masked Language Models Vs. Large Generative Models for Clinical Decision Support and Their Effects on Users

Sacha Anatole Servan-Schreiber
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: New Tools for On-the-Fly Secure Computation

Paul R.M. Seurin
(September, 2024)
Thesis in the field of Computational Nuclear Science and Engineering: Light Water Reactor Loading Pattern Optimization with Reinforcement Learning Algorithms

Abhin Swapnil Shah
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Data-Rich Causal Inference

Arjav Utpal Shah
Thesis in the field of Chemical Engineering: Metrology and Elastometry of Nanoscale Objects

Pratyusha Sharma
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Discovering and Engineering the Computation Underlying Large Intelligent Agents

Shonit Nair Sharma
(September, 2024)
Thesis in the field of Biological Engineering: Engineering Medical Devices to Improve Oral Delivery of Biopharmaceuticals

Peter David Sharpe
(September, 2024)
Thesis in the field of Computational Science and Engineering: Accelerating Practical Engineering Design Optimization with Computational Graph Transformations

Sabrina C. Shen
(September, 2024)
Thesis in the field of Materials Science and Engineering: Nature-Centered Materiomics: Experimental and Computational Design of Sustainable Materials

Jingnan Shi
Thesis in the field of Aeronautics and Astronautics: Resilient Object Perception for Robotics

Kaymie Sato-Hayashi-Kagawa Shiozawa
Thesis in the field of Mechanical Engineering: Quantifying Human Balance Control and Performance to Inform Therapy

Nicholas Evan Showalter
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Quantifying the Value of Spacecraft Refueling and Repositioning Using a Technology Maturation-Based Tradespace Approach

Sameed Muneeb Siddiqui
(September, 2024)
Thesis in the field of Computational and Systems Biology: Insights on Serology, CRISPR Diagnostics, and Machine Learning Architectures for Biological Sequences

Anthony Simeonov
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Geometric Learning for Manipulating Scenes and Objects

John William Simonaitis
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Low-Energy Electron-Photon Interactions in a Scanning Electron Microscope

Kurran Singh
(February, 2025)
Thesis in the field of Ocean Engineering submitted to the Department of Mechanical Engineering: Underwater Semantic Simultaneous Localization and Mapping

Jamison M. Sloan
(September, 2024)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Quantum Optics with Many Degrees of Freedom

Qian Song
(September, 2024)
Thesis in the field of Materials Science and Engineering: Spectroscopic Studies of Emergent Electronic Phases in Transition Metal-Based Compounds

Chandler B. Squires
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Causal Foundations for Pragmatic Data Science

Katherine Julia Steinberg
Thesis in the field of Chemical Engineering: Characterization and Quantification of Solid Electrolyte Interphases for Composition-Functionality Relationships at Lithium Metal Electrodes

Eric M. Stewart
(February, 2025)
Thesis in the field of Mechanical Engineering: Magneto-Viscoelasticity of Magnetorheological Elastomers: Application to Modeling Magnetically-Coupled Actuators

Amy Elizabeth Stoddard
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Synthetic Regeneration of Engineered Liver Tissue Implants

Katherine Elizabeth Venditti Stoll
(February, 2025)
Thesis in the field of Materials Science and Engineering: Materials Processing and System Design for Infrared Photonic Integrated Circuits

Lee Richard Strobel
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: Investigation of Long-Timescale Behavior of DC Streamers Using a 1.5D Numerical Model

Karen Sugano
Thesis in the field of Materials Science and Engineering: Engineering Electrochemical Environments: Gigapascal Hydrogen Loading and Humidity Driven Metal-Air Fuel Cell Technology

Hyung Ju Terry Suh
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Leveraging Structure for Efficient and Dexterous Contact-Rich Manipulation

Na Sun
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Unraveling the Complex Roles of Microglia and Brain Vasculature in Alzheimer's Disease

Zehao Sun
(February, 2025)
Thesis in the field of Materials Science and Engineering: Modular Construction of Complex-Architected Bottlebrush Block Copolymers and Their Self-Assembly Behaviors

Vikram Sundar
Thesis in the field of Computational and Systems Biology: Engineering TEV Protease Specificity: An Exploration of Machine Learning and High-Throughput Experimentation for Protein Design

Neha Sunil
Thesis in the field of Mechanical Engineering: Deformable Object Manipulation with a Tactile Reactive Gripper

Ivan Susin Pires
(September, 2024)
Thesis in the field of Chemical Engineering: Layer-by-Layer Nanoparticles for Cytokine Delivery

Madison M. Sutula
Thesis in the field of Electrical Engineering and Computer Science: Solid-State Quantum Memories for Near-Term Quantum Repeaters

Corban Nathanael Swain
(September, 2024)
Thesis in the field of Biological Engineering: Technological Innovation and Integration of Whole Brain Imaging, Olfactory Stimulation, and Correlative Microscopy in Larval Zebrafish

Zhi Xuan Tan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scaling Cooperative Intelligence via Inverse Planning and Probabilistic Programming

Haotian Tang
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Co-Designing Efficient Systems and Algorithms for Sparse and Quantized Deep Learning Computing

Omar Tantawi
Thesis in the field of Civil and Environmental Engineering: Abiotic and Biotic Polymer Degradation to Inform Sustainable Design

Dousabel May Yi Tay
(February, 2025)
Thesis in the field of Chemical Engineering: Towards Directed & Streamlined Rapid Diagnostics Engineering

Denise Tellbach
(February, 2025)
Thesis in the field of Mechanical Engineering: Beyond Human Vision: Advanced Sensing for Automating Quality Inspection of Complex, Non-Deterministic Products

Erin Nicole Tevonian
Thesis in the field of Biological Engineering: Engineering Physiologically Relevant Models of Inflammatory and Hepatic Insulin Resistance

Ami Utpal Thakrar
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Time-Resolved High-Pressure Freezing with Ligand Stimulation to Capture Nanoscale Cellular Dynamics

Marcel Adam Craig Thomas
(September, 2024)
Thesis in the field of Mechanical Engineering: Design and Modeling of a Catapulting Magnetic Transmission for Tuning Energy Storage and Release

Yi Tian
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Representation Learning for Control: Lessons from Partially Observable Linear Dynamical Systems

Connor Jarvis Tou
Thesis in the field of Biological Engineering: Invention and Development of Programmable Base-to-Kilobase DNA Writing and Integration Technologies

Elizaveta Tremsina
Thesis in the field of Electrical Engineering and Computer Science: Atomistic Study of Traveling Skyrmions in Multi-Sublattice Magnetic Materials

Constantine Nicholas Tzouanas
(February, 2025)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: More than the Sum of Parts: Deconstructing Tissues in Their Spatial, Temporal, and Environmental Contexts

Jelle Dirk van der Hilst
Thesis in the field of Biological Engineering: Engineering High-Refractive-Index Proteins Inspired by Lens Crystallins

Hannah Martin Varner
(February, 2025)
Thesis in the field of Mechanical Engineering: Expanding Options for the Mechanical Characterization of Biological Materials

Michailia Verou
(September, 2024)
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Languages and Systems to Democratize Development of Data-Driven Web Applications

Chonghuan Wang
Thesis in the field of Civil Engineering and Computation submitted to the Department of Civil and Environmental Engineering: Experimental Design in Operations

Clinton Jia Wang
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Parameterizations of Neural Fields

Eric Wang
(February, 2025)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Computational Design of Vaccines Against Mutable Pathogens

Hanfeng Wang
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Solid-State Cavity Quantum Electrodynamics with Spin Ensembles

Lirui Wang
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Robot Fleet Learning From Heterogeneous Data

Nathan Ben-En Wang
Thesis in the field of Chemical Engineering: Synthetic and Systems Biology Approaches to Engineer Cell Fate Transitions for Cell Therapies

Peiqi Wang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Language-Centric Medical Image Understanding

Tongzhou Wang
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Intelligent Agents via Representation Learning

Tsun-Hsuan Wang
Thesis in the field of Electrical Engineering and Computer Science: Building Intelligence That Can Interact with the Physical World

Yanwei Wang
Thesis in the field of Electrical Engineering and Computer Science: Steering Robots with Inference-Time Interactions

Ferrous Selenium Ward
(September, 2024)
Thesis in the field of Humans in Aerospace submitted to the Department of Aeronautics and Astronautics: Development and Evaluation of a VR Mission Simulation Platform for Planetary Exploration and Decision Support

Reimar Weißbach
(February, 2025)
Thesis in the field of Mechanical Engineering: Computational-Experimental Process Development for Laser Powder Bed Fusion Additive Manufacturing

Drew Michael Weninger
(February, 2025)
Thesis in the field of Materials Science and Engineering: Materials and Devices for Optoelectronic Packaging

Gavin Neal West
(September, 2024)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Toward Visible-Wavelength Integrated Laser Sources for Optical Atomic Clocks

Chad Thomas Wilson
(September, 2024)
Thesis in the field of Mechanical Engineering: System-Level Design, Fabrication, and Optimization of Sorbent-based Atmospheric Water Harvesting Devices

Jeremy Wohlwend
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Biomolecular Modeling at Scale

Menghua Wu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Practical Algorithms for Modeling Causality to Accelerate Scientific Discovery

Sarah J. Wu
(September, 2024)
Thesis in the field of Mechanical Engineering: Multiscale Design of Bioadhesive Platforms for Next-Generation Applications in Surgery and Healthcare

Wan-Ni Wu
(September, 2024)
Thesis in the field of Chemical Engineering: Microporous Polymer-Metal Organic Framework (MOF) Hybrid Materials for Separations

Weida Wu
(September, 2024)
Thesis in the field of Biological Engineering: High-Throughput Single-Cell Density Measurements for Precision Medicine and Biologics Manufacturing

Eric Michael Wynne
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Recycling and Regeneration of Spent Perfusion Media via Ion Concentration Polarization

Hanshen Xiao
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Automated and Provable Privatization for Black-Box Processing

Ellen Janine Kim Xu
(September, 2024)
Thesis in the field of Biological Engineering: Developing pMHC-targeted Retroviruses for Gene Delivery to Antigen-Specific T cells

Hongbin Xu
Thesis in the field of Materials Science and Engineering: Metal Organic Frameworks-Based Electrocatalytic Materials

Michael Xu
(February, 2025)
Thesis in the field of Materials Science and Engineering: Quantifying Short-Range Chemical and Structural Order Using Electron Microscopy

Shenbo Xu
(February, 2025)
Thesis in the field of Mechanical Engineering: Causal Inference with Survival Outcomes via Orthogonal Statistical Learning

Yinzhan Xu
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: On the Fine-Grained Complexity of Graph, Matrix and String Problems under Well-Established Hypotheses

Sami Yamanidouzisorkhabi
(September, 2024)
Thesis in the field of Mechanical Engineering: Spatiotemporal Signatures of Elastoinertial Turbulence

Jianqiao Yang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: On the Learnability of General Reinforcement-Learning Objectives

Kathleen Linjia Yang
(February, 2025)
Thesis in the field of Electrical Engineering and Computer Science: Non-Orthogonal Multiple Access Using Guessing Random Additive Noise Decoding Aided Macrosymbols

Mingran Yang
Thesis in the field of Electrical Engineering and Computer Science: Efficient Network Systems Design for Machine Learning

Rachel Shanting Yang
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Hybrid Core Inductors for High Saturation Capability

Yuchen Yang
(September, 2024)
Thesis in the field of Chemical Engineering: Molecular, Genetic, and Process Approaches for Improving Secreted Pharmaceutical Protein Quality in Komagataella Phaffii

Zhutian Yang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Solving Multi-Step Robot Manipulation Using Learning and Planning

Jing Ying Yeo
Thesis in the field of Chemical Engineering: Understanding the Role of Free Volume in Microporous Polymer for Membrane-Based Gas Separations

Deniz Umut Yildirim
Thesis in the field of Electrical Engineering and Computer Science: Wireless, Battery-Free, High-Sensitivity 5G RF Energy Harvesters for Next Generation IoT Sensor Tags

Jason Yim
Thesis in the field of Electrical Engineering and Computer Science: Generative Diffusion Models of Protein Structure and Sequence

Rose Yin
Thesis in the field of Chemical Engineering: Mechanistic Insights into How Collective Effects Mediate the T Cell Response

Tianwei Yin
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient Generative Models for Visual Synthesis

Yong-Chul Yoon
(September, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Towards Depth-Resolved, Multi-Cubic-Centimeter Field of View Endoscopic Camera for Intraoperative Nerve Identification

Jie Yun
(February, 2025)
Thesis in the field of Environmental Biology submitted to the Department of Civil and Environmental Engineering: Systems Analysis of Plant Responses to Drought

Jason Zhang
(September, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Tethered Capsule Imaging for Diseases of the Esophagus

Linzixuan Zhang
Thesis in the field of Chemical Engineering: Synthesis and Development of Polymer Microparticles for Nutrient and Vaccine Delivery

Wang Zhang
Thesis in the field of Mechanical Engineering: On the Certification of Deep Learning-Based Dynamical System Identification

Xiaotong Zhang
(February, 2025)
Thesis in the field of Mechanical Engineering: Relevance for Human-Robot Collaboration: Definitions, Systems, Algorithms, and Applications

Xinyi Zhang
Thesis in the field of Electrical Engineering and Computer Science: Representation Learning for Cell and Tissue Biology: From Multimodality Integration to Simple Biomarkers

Yihao Zhang
(September, 2024)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Towards Object-Based SLAM

Yiming Zhang
Thesis in the field of Biological Engineering: Investigating the Impact of Vaccine Formulations on Humoral Response

Yiyun Zhang
(February, 2025)
Thesis in the field of Aeronautics and Astronautics: An Identity-Oriented Design Framework in Education Programs

Jialiang Zhao
(February, 2025)
Thesis in the field of Mechanical Engineering: Contact-Aware and Multi-Modal Robotic Manipulation

Tian Zhao
(September, 2024)
Thesis in the field of Civil and Environmental Engineering: The Impact of Vegetation Morphology on Turbulence and Bedload Transport

Yifan Zhao
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Decoding Brain Somatic Mosaicism with New Single-Cell Copy Number Analysis Methods

Yang Zhong
(February, 2025)
Thesis in the field of Mechanical Engineering: Sorption-Based Atmospheric Water Harvesting: From Atoms to Applications

Jiadi Zhu
(February, 2025)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Electronics Based on Two-Dimensional Materials

Weikun Zhu
Thesis in the field of Chemical Engineering: Additive Integration from Nanomaterials to Devices

Debbie Zhuang
(September, 2024)
Thesis in the field of Chemical Engineering: Degradation Mechanisms and Applications in Ion Intercalation Materials

Jonathan Zong
(September, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Designing for Participation and Power in Data Collection and Analysis

Yuexuan Zu
(February, 2025)
Thesis in the field of Chemical Engineering: Reducing Carbon Emission by Engineering Carbon Metabolism

Rebecca Elizabeth Zubajlo
(February, 2025)
Thesis in the field of Mechanical Engineering: Acoustic Interrogation and Manipulation of Cells and Tissues

Alexandra Katrina Zytek
(February, 2025)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Systems for Usable Machine Learning

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES, DOCTORAL

Doctor of Philosophy

School of Humanities, Arts, and Social Sciences

Karl Milutin Aspelund
Thesis in the field of Economics: Essays on Environmental Regulation

Zachary Burdette
(September, 2024)
Thesis in the field of Political Science: Trading with the (Potential) Enemy: How States Manage the National Security Implications of International Trade

Nadia Christidi
(September, 2024)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Envisioning Water: Sustainability and Future-Making in Dubai and Los Angeles

Rebekah Anne Dix
Thesis in the field of Economics: Essays in Industrial Organization

Esteban Manuel Fernandez
Thesis in the field of Political Science: Copaganda: Entertainment Media's Role in Reinforcing Public Perceptions of Police

Enrico Flor
(February, 2025)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Coarse Modality

Nicole Christine Garcia
(February, 2025)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: The Hiddenness Argument and the Limits of Doxastic Positioning

Tishara Garg
Thesis in the field of Economics: Essays in Industrial Policy, Misallocation and Production Networks

Sarah Michaela Gertler
Thesis in the field of Economics: Essays in International Macroeconomics

Sophia Holland Gibert
(September, 2024)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Ethics and the Limits of Autonomy

Ahmet Gulek
Thesis in the field of Economics: Essays on the Effects of Immigration on Labor Markets

Deivy Joel Marie Houeix
Thesis in the field of Economics: Essays on Firms and Technology in Development Economics

Michele Odisseas Impagnatiello
(September, 2024)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: The Ethics within Metaphysics

Eunsun Jou
(September, 2024)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Structural Case on Adjuncts

Shinnosuke Kikuchi
Thesis in the field of Economics: Essays on Technology and Trade

Yeong-Joon Kim
(September, 2024)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Phonetic Faithfulness in Phonological Opacity

Sylvia Klosin
Thesis in the field of Economics and Statistics: High-Dimensional Statistics for Causal Inference in Panel Data

Jung Jae Kwon
Thesis in the field of Political Science: Explaining Allied Military Postures: Extended Deterrence, the U.S. Nuclear Umbrella, and the Search for Security

Kelsey Rose Larson
(February, 2025)
Thesis in the field of Economics: Three Essays on the Economics of Land Use, Environmental Value, and Public Spending

Todd Alan Lensman II
Thesis in the field of Economics: Essays on Economic Growth and Innovation

Yui Leh Timothy Loh
(September, 2024)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Entanglements of Language, Religion, and Disability: The Politics of Assistive Technologies for Deaf People in Jordan

Maša Močnik
(February, 2025)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Strange Attitudes on Top

Kelsey Charlotte Moran
Thesis in the field of Economics: Essays in Health Economics

Daniel George O'Connor
Thesis in the field of Economics: Topics in Spatial Economics

Roi Orzach
Thesis in the field of Economics: Dynamics of Group Decision-Making

Sonia Maria Pavel
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: A Systematic Political Philosophy of Education

Víctor Manuel Quintas i Martínez
Thesis in the field of Economics and Statistics: Machine Learning for Causal Estimation

Alex Reiss Sorokin
(September, 2024)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: From Research to Search: Technologies and Techniques of Legal Research, 1880-1980

Alexander Nicholas Rewegan
(February, 2025)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Crafting Cannabinoid Capitalism: Health, Sustainability, and Regeneration in the United States

Eitan Sapiro-Gheiler
Thesis in the field of Economics: Essays in Political Economy

Tomoya Sasaki
(September, 2024)
Thesis in the field of Political Science: Essays on Quantitative Political Science

Advik Shreekumar
Thesis in the field of Economics: Healthy Behavior: Essays in Health and Behavioral Economics

Kunal Singh
Thesis in the field of Political Science: Nipping the Atom in the Bud: Strategies of Counterproliferation and How States Select Among Them

Adam Solomon
Thesis in the field of Economics: Essays on Private and Social Insurance

Dora Kata Takacs
(September, 2024)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Constraints on Vowel-Zero Alternations in Hungarian

Rafael Veiel
Thesis in the field of Economics: Essays on Information Economics

Jaume Vives-i-Bastida
Thesis in the field of Economics and Statistics: Essays on Econometrics and Policy Evaluation

Yuxing Wang
(September, 2024)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Essays on Attention and Creative Thought

Eliza Wells
(September, 2024)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Just Doing My Job: Normative Dimensions of Social Roles

Caroline Celeste White-Nockleby
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Making Energy Work: Enacting Renewable Transitions in the Deserts of Chile and California

Edward Wiles
Thesis in the field of Economics: Essays in Development Economics and Trade

Di Wu
(September, 2024)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Autonomy Work: Personhood, Expertise, and Activism of Disabled AI Data Workers in China

Henry Haorui Zhang
Thesis in the field of Economics: Essays in Environmental and Supply Chain Topics in Finance

Jie Zhou
Thesis in the field of Economics: Essays on Institution and Innovation

SLOAN SCHOOL OF MANAGEMENT, DOCTORAL

Doctor of Philosophy

Sloan School of Management

Benjamin Marcel Jean-Claude Boucher
Thesis in the field of Operations Research: A Novel Machine Learning Approach to Robust Optimization: Theory and Applications

Qinyi Chen
Thesis in the field of Operations Research: Algorithmic Advances for Fair and Efficient Decision-Making in Online Platforms

Raluca-Ioana Cobzaru
Thesis in the field of Operations Research: From Theory to Practice: Improving Causal Conclusions from Healthcare Data

Rares Cristian
Thesis in the field of Operations Research: Aligning Machine Learning and Robust Decision-Making

Ding Du
Thesis in the field of Management: Content Creator Conduct

Luca Gius
Thesis in the field of Management: Essays on Bayesian Entrepreneurship: Evaluating and Commercializing Unconventional Ideas

Victor A. Gonzalez
Thesis in the field of Operations Research: Decision-Making under Uncertainty: An Investigation into Applied Optimization under Uncertainty and Practical Solutions when Considering Computation Time

Robert Wesley Gurnee
(February, 2025)
Thesis in the field of Operations Research: Towards an Artificial Neuroscience: Analytics for Language Model Interpretability

Kevin Kaiwen Hu
(September, 2024)
Thesis in the field of Operations Research: Predicting Risk and Optimizing Resilience of Digital and Physical Supply Chains

Nicholas André G Johnson
(September, 2024)
Thesis in the field of Operations Research: Advances in Sparse and Low Rank Matrix Optimization for Machine Learning Applications

Cheol Woo Kim
(September, 2024)
Thesis in the field of Operations Research: Predictive and Prescriptive Trees for Optimization and Control Problems

Sunghyo Kim
Thesis in the field of Management: Corporate Transparency and Cybersecurity Risks

Angelos Georgios Koulouras
Thesis in the field of Operations Research: A Unified Adaptive Robust Optimization Approach to Electricity Markets Under Uncertainty

Tatiana Labuzova
(February, 2025)
Thesis in the field of Management: Essays on Spatial Constraints and Gender Equality: The Impact of COVID-19 Lockdowns on Work-from-Anywhere Dynamics and Gender Equality in Job Searches

Zhen Lin
Thesis in the field of Operations Research: Progress on the Interplay of Machine Learning and Optimization

Xinming Liu
(February, 2025)
Thesis in the field of Operations Research: Essays on Sustainability in Agriculture and Food Systems

Yu Ma
Thesis in the field of Operations Research: Artificial Intelligence for System Medicine: Methods and Applications

Cameron Charles Martel
Thesis in the field of Management: Essays on Content Moderation Interventions for Addressing Online Misinformation

Fiona A. Paine
Thesis in the field of Management: Essays in Venture Capital and Corporate Finance

Alexander Spassimirov Paskov
Thesis in the field of Operations Research: Large Scale Optimization Using Reinforcement Learning Dynamic Programming, and Column Generation

Eppa Rixey V
Thesis in the field of Management: Coevolution of Small Business Strategy and Regulation: A Mixed-Methods Study of United States Craft Breweries

Karen MacKenzie Scott
(February, 2025)
Thesis in the field of Management: Organizational Forms and Practices: Essays on Implications for Frontline Workers and Performance

Zikai Xiong
Thesis in the field of Operations Research: New Theory and New Practical Methods for Solving Large-Scale Linear and Conic Optimization

Yuanfan Yao
(September, 2024)
Thesis in the field of Operations Research: Advancements in Models and Algorithms for Management Science

El Ghali Ahmed Zerhouni
Thesis in the field of Operations Research: Informing Public Health Policy Design and Operations with Analytics: Methods and Applications

Chen Wen Zhai
(September, 2024)
Thesis in the field of Operations Research: Advancements in Management Science: Applications to Online Retail, Healthcare, and Non-Profit Fundraising

Alan Zhang
(September, 2024)
Thesis in the field of Management: Instability Scaffolding: Enacting Strategic Instabilities to Produce Authentic Fine Wine

Cindy Zhang
Thesis in the field of Management: Industrial Pollution and Firm Ownership Structure: Evidence from M&A

Jiayu Zhao
Thesis in the field of Operations Research: Flexibility in Platform Operations

SCHOOL OF SCIENCE, DOCTORAL

Doctor of Philosophy

School of Science

Keene Louis Abbott
(February, 2025)
Thesis in the field of Biology: The Influence of Nutrient Availability on Tumor Metabolism

Niven Tajoache Achenjang
Thesis in the field of Mathematics: The Average Size of 2-Selmer Groups of Elliptic Curves in Characteristic 2

Yasmeen S. AlFaraj
Thesis in the field of Chemistry submitted to the Department of Chemistry: Design and Development of Deconstructable and Recyclable pDCPD Thermosets with Desirable Thermomechanical Properties for Industrial Applications

Samuel Cyrus Alipour-fard
Thesis in the field of Physics: Particles Inside Particles: The Energy Flow of Quarks, Gluons, and Jets

Clifford John Allington
(September, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Ultrafast Terahertz Spectroscopy for the Manipulation and Elucidation of Correlated Quantum Materials

Noah Trawicki Anderson
(September, 2024)
Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Multi-Proxy Records of Climate and Carbon Cycle Perturbations in the Paleozoic: Integrating Isotope Geochemistry and Sedimentology

Rachel Jem Anderson
Thesis in the field of Biology: Aberrant RNA Processing Contributes to Unexpected Protein Products in CAG Repeat Expansion Disorders

Catherine Kyoko Badding
Thesis in the field of Chemistry submitted to the Department of Chemistry: Emergent Properties in Intermetallic Bismuth Binaries

Matthew Joseph Baldes
Thesis in the field of Geobiology: Organic Influences on the Formation of Hydrated Magnesium Carbonates

Deeparaj Bhat
(September, 2024)
Thesis in the field of Mathematics: Surgery Exact Triangles in Instanton Theory

Samuel David Block
(February, 2025)
Thesis in the field of Biochemistry submitted to the Department of Biology: Sideroflexins Enable Mitochondrial Transport of Polar Neutral Amino Acids

Blox Willow Bloxham
(February, 2025)
Thesis in the field of Physics: Two's More Fun than One: How the Presence of Multiple Nutrients Changes Microbial Competition and Foraging in Unexpected Ways

Neha Vijay Bokil
Thesis in the field of Genetics submitted to the Department of Biology: Regulation of Chromatin Landscape on and by the Human Sex Chromosomes

Isabella Marie Borgula
(September, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Collagen-Mimetic Peptides for Diagnosis and Analysis

Joshua David Bromley
Thesis in the field of Immunology submitted to the Department of Biology: Deciphering Features of Protective or Maladaptive Cellular Immunity in the Airways Following Primary and Repeated Pathogen Exposure

Gonzalo Cao Labora
(September, 2024)
Thesis in the field of Mathematics: Self-Similar Singularity Formation and Wellposedness Theory for Compressible Fluids and Dispersive PDE

Alan Wylde Carter
Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Insights into Mycobacteriales Galactan Biosynthesis

Paul Thomas Cesana
(September, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Photocatalysis in a New Light: A Biohybrid Approach for Improved Reactivity with Tunable, Low-Energy Light Excitation

Hilary Chang
Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Characterizing Microearthquakes and Shallow Structure with Dense Array and Optical Fibers

Evan Yiting Chen
(February, 2025)
Thesis in the field of Mathematics: Explicit Formulas for Weighted Orbital Integrals for the Inhomogeneous and Semi-Lie Arithmetic Fundamental Lemmas Conjectured for the Full Spherical Hecke Algebra

Mo Chen
Thesis in the field of Mathematics: New Regimes for Topology Optimization in Photonics

Ryan Christopher Chen
Thesis in the field of Mathematics: Co-Rank 1 Arithmetic Siegel--Weil

Xuyan Chen
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Development and Application of Single-Molecule FRET on Protein Conformational Dynamics

Zihong Chen
Thesis in the field of Mathematics: Quantum Steenrod Operations and Fukaya Categories

Anlong Chua
Thesis in the field of Mathematics: Kazhdan-Lusztig Map and Affine Springer Fibers

Alexander Yu Chuang
(September, 2024)
Thesis in the field of Physics: Dimers, Trimers and their Superpositions in a Bose-Fermi Mixture

Alexander Nathan Cohen
Thesis in the field of Mathematics: Higher Dimensional Fractal Uncertainty

Marharyta Davydova
(September, 2024)
Thesis in the field of Physics: Nonreciprocal Phenomena in Superconductivity

Rola Dbouk
Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Tidal Evolution of Planetary Satellites: Implications for Jupiter's and Saturn's Obliquities and Titan's Climate

Nicholas Demos
Thesis in the field of Physics: Coating Thermal Noise in Gravitational-Wave Detectors

Andrew William Denniston
Thesis in the field of Physics: Across the Scales of the Nucleus: Understanding Short Range Correlations from Medium Modification to Scale Independence

Jude Deschamps
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Weak Shock Waves on a Chip: Generation and Applications

Calista Sorine Diehl
(September, 2024)
Thesis in the field of Genetics submitted to the Department of Biology: Regulation of the *hif-1*-Dependent Hypoxic Stress Response by *C. Elegans*

Cesar Florentino Dominguez Medellin
Thesis in the field of Biology: Structural Insights Into Perinuclear SUN2 Proteins

Ishir Dutta
Thesis in the field of Atmospheric Chemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: The Changing Role of Reactive Nitrogen in the Troposphere

Madison Echavarri-Leet
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Investigating the Prevalence and Mechanisms of Recovery from Amblyopia After Monocular Vision Loss

Rey Edison
(February, 2025)
Thesis in the field of Microbiology submitted to the Department of Biology: Novel Applications of Gene Editing in Biosecurity and Neuroethics

Audrey Helen Effenberger
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Oligodendrocyte Progenitor Heterogeneity in Normal Aging and Neurodegeneration

Amauche Emenari
Thesis in the field of Neuroscience and Statistics submitted to the Department of Brain and Cognitive Sciences: Expansion Microscopy of Extracellular Space for Light Microscopy-Based Connectomic Analysis

Davis James Evans
(February, 2025)
Thesis in the field of Mathematics: Ponderomotive Forces in Pilot-Wave Hydrodynamics

Haosheng Feng
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Chemical Sensing of N-Nitrosodimethylamine and Methane

Marisa R. Gaetz
Thesis in the field of Mathematics: Dual Pairs and Disconnected Reductive Groups

Rikab Gambhir
Thesis in the field of Physics: Metrics, Muons, Moments, Models, Machine Learning, Measurements, and More: A Manifesto on Collider Physics

Preston Ge
(September, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Subcellular Profiling of Dopaminergic Mitochondria: Adaptations to the Axonal Environment in Health and Disease

Ali Ghorashi
Thesis in the field of Physics: Expanding the Phase Space of Photons in Matter: From High-Throughput Screening to Atom-by-Atom Engineering

Ashavari Ghose
(February, 2025)
Thesis in the field of Biology: Evolution and Engineering of Protein-Protein Interactions

Rianna Bliss Greer
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Developing Telecom Band-Compatible Molecular Color Centers for Quantum Networking

Sarah Yvonne Greer
Thesis in the field of Mathematics: Geometrically-Informed Methods of Wave-Based Imaging

Clair Sutphen Gutierrez
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Using Ribonucleases to Elucidate the Impact of Chemical Modifications on Enzyme Function

Mila Nels Halgren
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Elucidating Laminar Motifs of Aperiodic and Oscillatory Activity in Humans and Mice

Melanie Halim
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Exploiting Lectins to Probe Diseases

Hannah Lily Harris
(September, 2024)
Thesis in the field of Biology: Weakening of Y Promoters Shaped the Evolution of Human Sex Chromosomes

Mitchell Harris
Thesis in the field of Mathematics: Computational Tradeoffs and Symmetry in Polynomial Nonnegativity

Maxwell John Heinrich
(February, 2025)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Spontaneous Activity in the Mouse Visual Cortical Slice: Biophysical Characterization and Pathophysiology

Elizabeth Ann Hemenway
(February, 2025)
Thesis in the field of Biology: DNA Demethylation

Abraham Herzog-Arbeitman
Thesis in the field of Chemistry submitted to the Department of Chemistry: Junctions and Strands: Breaking Property Tradeoffs in Polymer Networks and Composite Polymer Electrolytes

Jarrod Michael Hicks
Thesis in the field of Computational Neuroscience: The Role of Texture in Auditory Scene Analysis

Mikaila Catov Hoffman
(September, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Following Transmembrane Conformational Signaling in a Bacterial Chemoreceptor

Madeline Patricia Hoffmann
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Single-Molecule Investigations into Non-Photochemical Quenching Across Timescales

Beili Hu
Thesis in the field of Physics: A Cavity-Coupled Rydberg Atom Array System for Quantum Computing and Quantum Science

Wentao Huang
Thesis in the field of Biochemistry submitted to the Department of Biology: Biochemical Characterization of the DUF3328 Protein in the Biosynthesis of Cyclic Peptide Cyclochlorotine

Fatima Husain
Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Geochemical and Phylogenomic Investigations of Life in Deep Time

Andrei Iliescu
Thesis in the field of Chemistry submitted to the Department of Chemistry: Synthetic and Post-Synthetic Methods Towards Fine Tuning the Chemical and Physical Properties of Metal-Organic Frameworks

Batyr Ilyas
(September, 2024)
Thesis in the field of Physics: Coherent Terahertz Control and Ultrafast Spectroscopy of Layered Antiferromagnets

Hannah Nicole Jacobs
Thesis in the field of Biology: Characterizing Population-Level Variation in mRNA Splicing and Implications for Human Genetic Interpretation

Rahul Jayaraman
Thesis in the field of Physics: Time-Domain Astrophysics with the Transiting Exoplanet Survey Satellite

Wenxuan Jia
(September, 2024)
Thesis in the field of Physics: Squeezing the Quantum Noise of LIGO below the Standard Quantum Limit

Timothy Mark Johnson
(February, 2025)
Thesis in the field of Physics: Laboratory Astrophysics Studies of Magnetized Collisionless Shock Precursors and the 3He3He Proton Spectrum at the OMEGA Laser Facility

Robert A. Jones
(September, 2024)
Thesis in the field of Physics: Explorations in Two Dimensional Strongly Correlated Quantum Matter: From Exactly Solvable Models to Conformal Bootstrap

Brindha Kanniah
(September, 2024)
Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Shifting Paradigms: Data-Centric Approach for Marine Statics Correction using Symmetric Autoencoding

Andrey Boris Khesin
(February, 2025)
Thesis in the field of Mathematics: Quantum Computing from Graphs

Khrystofor Khokhlov
(February, 2025)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Application of Foundation Models for Molecular Representation in Cancer Drug Discovery and Precision Oncology

Mikail Khona
(February, 2025)
Thesis in the field of Physics: Self Organization in Neural Systems

Honggeun Kim
(September, 2024)
Thesis in the field of Physics: Instrumental Effects in 21 cm Cosmology: One-Point Statistics and Power Spectrum with the HERA Interferometer

Jessica Jiyeon Kim
Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural and Magnetochemical Studies of Iron-Sulfur Clusters with Unusual Spin States

Minyoung Evelyn Kim
(September, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Mapping the Cellular Landscape of the Brain: A Scalable Approach to Comprehensive Microscopy Data Analysis

Ouail Kitouni
(September, 2024)
Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: On the Intersection of Physics Modeling and Representation Learning

Walker Austin Knauss
(September, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Total Synthesis of Verticillin A and Application of Diazene-Directed Fragment Assembly to the Synthesis of Heterodimeric Epidithiodiketopiperazine Derivatives

Evgenii Vadimovich Kniazev
(September, 2024)
Thesis in the field of Physics: Precision Metrology with Ytterbium Ions for New Physics Search

Emma Joanna Katharina Kowal
(September, 2024)
Thesis in the field of Biology: Sequence-Dependent & -Independent Effects of Intron-Mediated Enhancement

Talya Kramer
Thesis in the field of Neurobiology submitted to the Department of Biology: Neural Sequences Underlying Directed Turning in C. elegans

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Alexandra Elizabeth Jones-Kellett
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MILITARY COMMISSIONS

United States Air Force

2nd Lieutenant
Grayson J. Bertaina
Thomas H. Bigler
David C. Choi
John P. Rich Jr.
Patrick E. Whartenby

United States Army

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