



MIT
COMMENCEMENT
20
25

MIT Commencement
Honoring the graduates of 2025

Thursday, May 29, 2025





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

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SCHOOL OF ARCHITECTURE AND PLANNING

Bachelor of Science in Architecture

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Department of Architecture

Narah Marie-Paola Deeb

Michelle Escobar

Arusha Nirvan

Shantelle Monserrat Ortiz

Feng Qiu

Also with a Major in Course XV-3
Minor in Comparative Media Studies

Everly Chau Rael

Ning Zhang

Also with a Major in Course VI-4

Bachelor of Science in Art and Design

Course IV-B

Department of Architecture

Annie L. Dong

Minor in Brain and Cognitive Sciences

Charmelle Minana Mhungu

Hanna Park

Minor in Comparative Media Studies

Bachelor of Science in Planning

Course XI

Department of Urban Studies and Planning

Caroline Vicky Chea

Caitlin L. Fukumoto

(September, 2024)

Kathleen Britany Julca

Nrithya Priya Renganathan

Also with a Major in Course VI-3

Luka D. Srsic

Minor in Political Science

Rodrigo A. Vasquez

Minor in Mathematics
Minor in Computer Science
(September, 2024)

Bachelor of Science in Urban Science and Planning with Computer Science

Course XI-6

Department of Urban Studies and Planning in conjunction with the Schwarzman College of Computing

Olivia Avelino

Kevin Hernandez Benitez

Julia Christina Ayalde Camacho

Minor in Entrepreneurship & Innovation

Joanna Chen

Cameron Thomas Dougal

Minor in Environment and Sustainability

Sophia Marian Green

Ally Minju Hong

(February, 2025)

Ari Peró

Also with a Major in Course XXI-M

Gabriel R. Rodriguez Castillo

Arya K. Sasne

Also with a Major in Course XV-1

Benjamin Richmond Sheres

Minor in Mechanical Engineering

Kaleigh Renée Spears

SCHOOL OF ENGINEERING

**Bachelor of Science in
Engineering as recommended
by the Department of Civil and
Environmental Engineering**

Course 1-ENG

*Department of Civil and
Environmental Engineering*

Richard A. Chen

Also with a Major in Course XVIII

Yujie Chen

Ella Rose Gersack

Estefano Alejandro Reyes Madriz

James Henry Shaw IV

Also with a Major in Course XI

Eve Silfanus

Eldar Urkumbayev

**Bachelor of Science in
Climate System Science and
Engineering**

*Department of Civil and
Environmental Engineering*

Alexander Yan Bean

Minor in Computer Science

Ananda Tereza Santos Figueiredo

Minor in Physics

**Bachelor of Science in
Mechanical Engineering**

Course II

*Department of Mechanical
Engineering*

Aaron Murray Becker

Minor in Computer Science

Gerardo Alberto Berlanga Molina

Thomas H. Bigler

Darrell L. Brown, Jr.

(February, 2025)

Ethan Chang

Minor in Design

Jason Chen

Also with a Major in Course XXI-L
Minor in Computer Science

Yi Lin Chen

(February, 2025)

Evan L. Comiskey

Sebastian A. De Jesus

Collin Gardner DesRoberts

Thao Xuan Do

Andrew N. Doan

Anna Lillian Duncan

Minor in Design

Jade Durham

Faris Elnager

Ashley E. English

Also with a Major in Course XXIV-1

Ada Oyku Erus

Mercedes L. Escandon

Drew Thomas Gable

(February, 2025)

Monserate Garzon Navarro

Wilhem Hector

Blake Henry Hudspeth

Minor in Energy Studies

Pau J. Ilerbaig-Bajona

Minor in Computer Science

Mia C. Ladolcetta

Minor in Theater Arts

Adrienne Wing Suen Lai

Minor in Computer Science

Andrew J. LeBlanc

Also with a Major in Course XXI-M

Abraham S. Lemaitre

Sehar Imtiyaz Lohawala

Johan Alexander Maysonet Peña

Minor in Literature

Brittany Ivana McHenry

Muriel Ann McWhinnie

Minor in Business Analytics
(February, 2025)

Francisco David Mora Armendariz

Sarah Won-Hee Park

Jorge Felix Ramos-Muñoz

Also with a Major in Course VIII

Brooke Merrifield Rethman

Remington B. Sandell

Ruth Demiss Shiferaw

Henry Rossetter Smith

Brandon M. Wong

Minor in Japanese

Ethan James Wynia

**Bachelor of Science in
Engineering as recommended
by the Department of
Mechanical Engineering**

Course II-A

*Department of Mechanical
Engineering*

Nour Al Maalouf

(February, 2025)

Jonathan Anziani

Reyna J. Ayala

Diego A. Barros
Minor in Music Technology

Elijah H. Bell

Xavier L. Bell
Minor in Computer Science

Corrina Miyoko Berger

Jose E. Betances

Garrett Rock Blosen

Jakob A. Byrd

Timber S. Carey

Benjamin S. Carlson
(February, 2025)

Johnny Chen
Also with a Major in Course XV-1

Zhixing Chen
Also with a Major in Course XXI-M

Iruka-Dara E. Chidi

Ching Hsiu Chih

Rakibul H. Chowdhury

Kemi Yehsun Chung

Andy Dequin

Ava Dijstelbloem
Minor in Architecture

Christian John Duessel
Also with a Major in Course III-A

Aniesha Donna Dyce

Lleyton Sean Elliott

Brenda Daniela Fernández Martínez

Taylor G. Fox
Minor in Music Technology

Keenan Elizabeth Fronhofer

Eduardo Garcia

Lesley C. García Peralta
Minor in Japanese
(February, 2025)

Charles Zhou Ge

Johanna Alma Gomez

Alexander Kol Harris
Minor in Computer Science

Lilly A. Heilshorn

Alayah W. Hines

Brennan B. Hoppa

Stephanie Katherine Hulme

Evan Mark Hutchinson

Alexis D. Huynh
(February, 2025)

Arianna E. Ilvonen
(February, 2025)

Eleanor C. Jaffe

Lauren Jacey Keller
Minor in Design

Tova R. Kleiner
(February, 2025)

Ashley Theresa Lederman

Alexandra C. Lee

Aileen Liao
Also with a Major in Course VI-2

Aimee Liu
Also with a Major in Course VI-2

Shane V. Lovett

Malachi G. Macon

Jennifer Mallah

Andrea M. Molina De Jesus

Tyler Nagashima

Avani Narula
Minor in Management

Darius T. Nguempi

John P. O'Leary
Also with a Major in Course VI-2

Grant Oh

Ekanem Nkechi Akwaugo Okeke
Minor in Design

Alayo Oluyemisi Oloko
Also with a Major in Course XXI-T

Ottavia Personeni

Sophia I. Pineda

Emiko Marie Pope

Gage E. Rodriguez
Also with a Major in Course VI-2

Miles A. Roper
Minor in Urban Studies and Planning

Ian K. Rosado Javariz
Minor in Biomedical Engineering

Aidan H. Salazar

Amee Savjani
Minor in Writing

Isabel Sperandio
Also with a Major in Course VI-2

Sarah Michelle Stoops

Miguel Antonio Talamantez

Olivia Velten-Lomelin

Yedemgne Kevin Lenny Waku Kouomou

Amir J. White
Also with a Major in Course VIII

Saechow Yap

Elysia Binlu Yuan
Minor in Computer Science

Eileen Zhang
Also with a Major in Course XV-1

Bachelor of Science in Materials Science and Engineering
Course III
Department of Materials Science and Engineering

María José Aguiar Duarte

Paola Massielle Amadeo
Minor in Writing

Jordan E. Tierney
Minor in German

Elijah I. Van Ryck de Groot

Ellie Anna Vaserman
Also with a Major in S.B., Course I

Alice Margaret Zehner
Minor in Ancient and Medieval Studies

Bachelor of Science as recommended by the Department of Materials Science and Engineering
Course III-A
Department of Materials Science and Engineering

Kiran An-ying Mak
Also with a Major in Course VIII

Calliope Jane Letra Martin
Also with a Major in Course VI-1
(February, 2025)

Max Aaron Siegel

Sierra R. Triozzi

Bachelor of Science in Archaeology and Materials as recommended by the Department of Materials Science and Engineering
Course III-C
Department of Materials Science and Engineering

Mishael Amber Quraishi
Minor in Ancient and Medieval Studies

Sydney F. Robinson
Minor in Ancient and Medieval Studies

Bachelor of Science in Electrical Science and Engineering
Course VI-1
Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Kofi Boafo Agyepong

Isabela Cárdenas Maldonado

Thelonious A. Cooper

Ezekiel Gene Daye
Also with a Major in Course VIII
Minor in Music

Ian Edward Hueston
Minor in Music Technology

Makar Kuznietsov

Bethany Moore
Minor in Biomedical Engineering

Kenneth Amir Muhammad
Minor in Mathematics

Sarah V. Pomerantz

Titus Keith Roesler

Carlos Javier Sanchez

José H. Sánchez Fernandez

Oliver L. Trevor

Hasan Zeki Yıldız

Joseph Zhang
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Bachelor of Science in Electrical Engineering and Computer Science
Course VI-2
Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Ayana Kibret Alemayehu

Akshay Attaluri

Brie Avendano
Also with a Major in Course VIII
Minor in Mathematics

Lasya Akila Balachandran
Also with a Major in Course XVIII
Minor in Science, Technology, and Society

Allen Baranov

Richard D. Beattie

Shara Rehnuma Bhuiyan

Kailey Anne Bridgeman
(February, 2025)

Daniel Timothy Brown
Minor in Mathematics

Giuliana Paola Cabrera Sanchez

Andrew Cai
Minor in Mathematics

Rachael Cai

Samuel M. Calvert

Ana Cristina Jose Camba Gomes

Monica Sao Hwei Chan

Dev M. Chheda
(February, 2025)

David Chongmyung Choi

Donavon A. Clay

Riley Jordan Contee
Minor in Spanish
Minor in Biomedical Engineering

Christina M. Crow

Gaurab Das
Minor in Mathematics
(See also M.Eng., Course VI-P)

Clay W. Davis

Lucas K. De Bonet

Evelyn Ashley De La Rosa

Jesús René Díaz
Minor in Mechanical Engineering

Joaquin E. Dubon

Carla Duong
Minor in Women's and Gender Studies

Deniz Irem Erus

Nadia Frieden
Minor in Spanish

You Ran Gao
Minor in Earth, Atmospheric, and Planetary Sciences

Annie I. Giroux
(February, 2025)

Fabiana Alejandra Gonzalez Zambrano

Mehek Gosalia
Minor in Chinese

Joseph Gross

Deepta B. Gupta
Minor in Urban Studies and Planning
Minor in Statistics and Data Science

Teonezcayotl M. Gutierrez
(February, 2025)

Yohan E. Guyomard
Minor in Mechanical Engineering

Kyle William Heinz

Ryan S. Hourican

Cathy Yuyan Hu

Jonathan Y. Huang
Also with a Major in Course VII
Minor in Physics
Minor in Mathematics

Katrina Jander

Bryan Jangeesingh

Vasu Kaker

Joanna George Kondylis
(February, 2025)

Andrea Ke Leang
Minor in Business Analytics

Audrey Elizabeth Lee
Minor in Mechanical Engineering
Minor in Writing

Andrew Li
Minor in Music
(February, 2025)

YongYan Crystal Liang

Isa T. Liggins

Richard W. Lin
Minor in Finance

John Kamithi Magira
Minor in Music Technology

Leeban Jama Morgan

Mohammed Ehab Morsy
Minor in Mathematics

Abdullah H. Negm

Linh H. Nguyen
Minor in Mechanical Engineering

Divya V. Nori
(See also M.Eng., Course VI-P)

Kosi C. Nwabueze

Eghosa N. Ohenhen

Simon David Opsahl
(February, 2025)

Luisa Chen Pan
Minor in Linguistics

Viveca Leigh Pannell

Jaime Sebastian Punyed Gonzalez
Also with a Major in Course XVIII

Timothy C. Qian
(See also M.Eng., Course VI-P)

Andi Qu
Minor in Materials Science and Engineering

Jonas Ansel Rajagopal
Also with a Major in Course XXII-ENG

Yajvan M. Ravan

Shruthi Ravichandran
Also with a Major in Course IV-B

John Patrick Rich, Jr.
Also with a Major in Course VIII
(See also M.Eng., Course VI-P)

Jonah A. Romero

Sawyer Z. Sands

Sanjay Seshan

Lawrence R. Shi
Also with a Major in Course VIII
(February, 2025)

Benjamin Alejandro Soria
Minor in Mechanical Engineering
(February, 2025)

Anahita Srinivasan
Minor in Literature

Avril K. Studstill

Elena Su
Minor in Mathematics

Ilaisaane R. Summers

Catherine H. Tang

Alex H. Tran
Minor in Theater Arts
Minor in Design

Cindy Tran

Walter Hoyt Foug Truitt
(February, 2025)

Agustin G. Valdes Martinez
Also with a Major in Course VIII

Vetri S. Vel
Also with a Major in Course VIII
(See also M.Eng., Course VI-P)

Carlos Villa

Esteban D. Vizcaino

Athena J. Wang

Darren Z. Yao
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Alex Yi
Minor in Comparative Media Studies

Fatema Fairaj Zaman

Cynthia Zhang

Jennifer Xinran Zhang

**Bachelor of Science in
Computer Science and
Engineering**
Course VI-3
*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Kevin Emilio Acevedo Jetter
Minor in Latin American and Latino
Studies

Hyewon Ahn
Minor in Mathematics

Daniel O. Ajayi

Hayford Asiedu Akomeah
(February, 2025)

Maria Isabelle Alder
Minor in Environment and Sustainability

Rose N. Alsalman
Also with a Major in Course XV-2
Minor in Physics
Minor in Mathematics

Adrian Ikemba Anaemeje
Also with a Major in Course XVIII

Emmanuel Anteneh

Raymond E. Bahng
Minor in Biology
(February, 2025)

Gurjaap S. Bal
Minor in Mechanical Engineering
(February, 2025)

Abraham C. Balsam
Minor in Mathematics

Dylan J. Beck

Evan Michael Bell
Also with a Major in Course XVIII

Joshua Oluwaseyifunmi Bello

Tsegazeab Naod Beteselassie

Jagdeep Singh Bhatia
(See also M.Eng., Course VI-P)

Rhea Bhattacharjee
Minor in History
Minor in French

Bereket W. Birbo

Nikoloz Birkadze

Diana Rose Atabey Bishop

Aidan Z. Blum Levine
(February, 2025)

Nora A. Bulovic

Jiaying Cai

Theodore J. Calabrese III
(February, 2025)

Matthew R. Callister

Nicolas Mike Andri Camenisch
Minor in Mathematics

Leopoldo Jesus Campos
Minor in Management

Connie K. Cao
Also with a Major in Course XV-3
(February, 2025)

Matthew T. Caren
Minor in Mathematics
Minor in Music Technology

Miguel A. Chacon

Cathy Y. Chang
Minor in Economics
(See also M.Eng., Course VI-P)

Ryan Chang
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Benjamin Chen
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Brandon Chen
(February, 2025)

Claire J. Chen
Minor in Mathematics
Minor in Design

Elliot Edward Chen

Emily Meiwen Chen
Minor in Mathematics

Jian Ming Chen
Minor in Chinese

Lila Dhara Jo-hua Chen
Minor in Science, Technology, and
Society

Nathan L. Chen

Peilin Chen
(See also M.Eng., Course VI-P)

Katarina C. Cheng
Minor in Mathematics

Sean Cheng
Also with a Major in Course XVIII

Simeng Cheng
Also with a Major in Course XVIII

Angela J. Choi
Also with a Major in Course XV-2

Justin J. Choi
(See also M.Eng., Course VI-P)

Kathy Yoonseo Choi
Also with a Major in Course XVIII

Kenneth Kawa Choi
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Abigail Elizabeth Chou

Francisco J. Colón

Hanfei Cui

Alex Dang

Kaleb A. Desta
(February, 2025)

Wenqi Ding
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Ahmad Mohammad Ziad Durra

Abekwurundah O. Ejilemele

Dreese Buschini Fadil
Minor in Theater Arts

Jennifer Dakkak Fairhurst
Minor in Economics

Pieter Maximilian August Feenstra

Trevor J. Ferry
(September, 2024)

Caleb N. Frieson

Veer Gadodia
(February, 2025)

Victoria Kexin Gao

Yichen Gao

Charalampos Georgiou
Also with a Major in Course XVIII

Michael J. Gerovitch
(February, 2025)

Dakota Elle Goldberg

Ishita Goluguri

Rafael A. Gomez Cruz
Minor in Mathematics

Nicholas Gabriel Gorbea Ramy

Caden T. Gradek
Also with a Major in Course XVIII
Minor in Economics

Deniz Güner
Also with a Major in Course XVIII

Nathan Guntvedt

Thomas Guo
Also with a Major in Course XVIII
Minor in Physics

Matthew Mamay Habtezgi
Also with a Major in Course XVIII

Clarise Han
Also with a Major in Course XVIII

Ethan J. Harbaugh

Ololade O. Harrison
(September, 2024)

Ziyad Khalid Hassan

Cassandra X. He
Minor in Mathematics

Steven Peter Matthew Henry
Minor in Mathematics

Raul Eduardo Hernandez

Michael Garrett Higgins
Minor in Finance

Matthew P. Hollinger

David Hu
Minor in Economics
Minor in Mathematics
(February, 2025)

Dora X. Hu

Hali Huang

Siyong Huang

Yicheng Huang
Also with a Major in Course XVIII

Yuebin Huang

Benjamin Levi Hunsberger

Grace S. Jau

Andrew Lin Jiang

Shepard Jiang
Minor in Mathematics

Suzanne Jiang

Ziwei Jiang
Also with a Major in Course XVIII
(February, 2025)

Aaron Alvarado Kristanto Julistiono
Also with a Major in Course XVIII

Hahrin Jung
Minor in Music

Max Taggart Katz-Christy

Maura Louise Gaffney Kelleher
Minor in Business Analytics

Jinha Kim
Also with a Major in Course XVIII

Lucy Eunyoung Kim

Shirlin Janita Kingston
Also with a Major in Course XVIII
Minor in Economics

Esther Faith Kinyanjui
Minor in Mathematics

Arun Alexander Kirk
(February, 2025)

Disha Kohli
Also with a Major in Course XVIII
Minor in Design

Yogesh Koirala

Aleksia Kolo

Tamar Korkotashvili

Liam M. Kronman
Minor in Mathematics
Minor in Music Technology

Alexander S. Kumar

Aryan Kumar
Minor in Mathematics
(See also M.Eng., Course VI-P)

Supriya Lall

Judson Lam
Minor in Biology
Minor in Mathematics
(February, 2025)

Kevin Bao Lam

Jennifer M. Lawrence
Minor in Mathematics

Hyunwoo Lee
Also with a Major in Course XVIII

Joshua Lee
Also with a Major in Course XVIII

David Andrew Lewis
(February, 2025)

Alex Z. Li
Also with a Major in Course XVIII

Daniel A. Li

Daniel Dongrui Li
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Emily Kai Li
(February, 2025)

Serena W. Li
(February, 2025)

Yilin Li

Zhening Li
Also with a Major in Course VIII
Minor in Mathematics
(See also M.Eng., Course VI-P)

Joy Lin

Katherine Lin

Elliot E. Liu

Eric Shao Yi Liu

Helena E. Liu

Katherine Liu
(See also M.Eng., Course VI-P)

Katie Liu
(See also M.Eng., Course VI-P)

Patrick Xinyi Liu

Robin Young Liu

Rachel Jui-Chih Loh
Also with a Major in Course XXI-M
Minor in Business Analytics

Claire Adoración Lorenzo
Minor in Mathematics

Albert Lu

Jerry Lu
Minor in Mathematics

Kelly T. Lu
(September, 2024)

Rachel Lu

Sarah Lu
Minor in Mathematics

Tarang Lunawat
Minor in Mathematics
Minor in Writing
(See also M.Eng., Course VI-P)

Chengyuan Ma
(See also M.Eng., Course VI-P)

Neil Krishna Malur

Yuval Mamana

James T. Markowitz

Louis Wenjun Marquis
Also with a Major in Course XVIII
Minor in Physics
(See also M.Eng., Course VI-P)

Youssef Marrakchi
Also with a Major in Course XVIII

Hector Xavier Martinez
Also with a Major in Course XVIII
Minor in Philosophy

Ana Camille Mata-Payerro

Juno Matthews

Marcelo J. Maza

Kasra Mazaheri
Minor in Mathematics
Minor in Music Technology

Joshua Githuba Fadhli Mbogo	Maya Karin Rebholz Minor in German	Yi Suo Also with a Major in Course XVIII
Yonas Mekbib Mekonnen	Evan T. Ren	Ashwini Suriyaprakash
Anna Liu Mokkaapati	Steven Ting Reyes	Era Sylva
John W. Moler II Minor in Philosophy	Juan E. Reyes Beltrán Also with a Major in Course XVIII	Mark A. Tabor Also with a Major in Course XVIII
Kenneth Moon (See also M.Eng., Course VI-P)	Tasmeem Reza	Frederick J. Tang Minor in Mathematics
Siddhant Mukherjee Also with a Major in Course XVIII Minor in Economics	Drew Garrett Ross (February, 2025)	Alejandro Javier Tañón Díaz Minor in Anthropology
Anna Lim Murphy	Franklin J. Schulte Minor in Design	Isaac Argunal Taylor
Nathan Alexander Mustafa Also with a Major in Course XVIII	Matthew D. Sequeira Minor in Mathematics	Jacob Por Loong Teo Also with a Major in Course XVIII (February, 2025)
Ritam Nag Also with a Major in Course XVIII	Sama Setty Minor in Women's and Gender Studies	Jaclyn K. Thi
Nisha B. Nkya	Khizer Shahid Also with a Major in Course XVIII	Betsy Tian (See also M.Eng., Course VI-P)
Troy P. Oliveira	Fareed Sheriff Also with a Major in Course XVIII	Grace Yingjia Tian Also with a Major in Course XVIII Minor in Music
Nicholas Y. Ouyang Also with a Major in Course XVIII	Iris Wenxin Shi (See also M.Eng., Course VI-P)	Samuel W. Tian
Raymond Pan (See also M.Eng., Course VI-P)	Diana Leonora Shklover Also with a Major in Course XVIII	Gianni Javier Tipan
Neha Pant Also with a Major in Course XVIII	Lauren E. Shrack (See also M.Eng., Course VI-P)	Vivian T. Trinh
Shayan Pardis Also with a Major in Course XVIII	Ethan W. Siegel	Andrei Tyurin
Grace Peng	Anna Margaret Simmons Minor in Economics (Posthumous Award)	Anirudh V. Valiveru
Venkata Revanth Pothukuchi	Shagun Singh	Audrey Vargas
Cooper B. Price	Mia N. Sodini Also with a Major in Course XVIII	Daniel Vargas (February, 2025)
Richard Qi (See also M.Eng., Course VI-P)	Olivia Grace Steger Minor in Economics (February, 2025)	Santiago Enrique Vazquez
Sharaf Rashid	Olivia Grace Stoner	Abhitha Vegi
Abhaya S. Ravikumar Minor in Mathematics		Viviana Vela Minor in Mathematics
		Karl Angel Velazquez

Thiago J. Veloso de Souza

Samuel T. Vu

Rohan M. Wagh

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

Bill Wang

Daniel Wang

Also with a Major in Course XVIII
Minor in Economics

Hui Wang

Also with a Major in Course XVIII

Margaret Qingyang Wang

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

Rui-Xi Wang

Also with a Major in Course XVIII

William Wang

Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Xinran Wang

Also with a Major in Course XVIII
Minor in Economics

Yuxiao Wang

Also with a Major in Course XVIII
Minor in Statistics and Data Science
(See also M.Eng., Course VI-P)

Summer M. Warren

Patrick E. Whartenby

Also with a Major in Course XVII
(See also M.Eng., Course VI-P)

Angel Amir Whipple

Caleb Dean Wilson

Minor in Mathematics

Lili-Michal M. Wilson

Lauren S. Wong

Minor in Writing

Nicole H. Wong

(February, 2025)

Angelina Wu

Minor in Japanese

Ivy Wu

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

Zi Yan Wu

Alicia Xia

(February, 2025)

Bella Xu

Also with a Major in Course XVIII

Daniel Xu

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

Grace F. Yan

Also with a Major in Course XVIII

Fabián Yáñez Laguna

Anna J. Yang

Also with a Major in Course XVIII

Ethan Yang

Minor in Statistics and Data Science
(See also M.Eng., Course VI-P)

Iris Xinyan Yang

Also with a Major in Course XV-2

Jason Du Yang

Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Reece L. Yang

Minor in Brain and Cognitive Sciences

William Y. Yang

Also with a Major in Course XVIII

Dmytro Yanovskyi

Maggie Huili Yao

Minor in Mathematics
Minor in Science, Technology, and
Society

Joseph Ye

Lillian S. Yeazell

Minor in Mathematics

Cameron A. Young

Justin Y. Yu

Also with a Major in Course XVIII
Minor in Music Technology

Margaret X. Yu

Minor in Mathematics
Minor in Chinese

Jeffrey H. Yuan

(September, 2024)

Richard Yun

Camila A. Zavala

Daniel Ray Zeng

Also with a Major in Course XVIII
(September, 2024)

Maxwell Zetina-Jimenez

Minor in Mechanical Engineering

Anna Zhang

Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Chris J. Zhang

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

Emily S. Zhang

Minor in Design

Eric Zhang

Also with a Major in Course XVIII
(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 Gvozdzjak
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 Engineer-
ing

Lia Pascale Bu
Minor in Political Science

Mikayla Ashley Cable

Katherine A. Crowley
Minor in Nuclear Science and Engineer-
ing

Megan P. Eaton
(February, 2025)

Elena J. Garza
Minor in Economics

Logan T. Hammond
Minor in Nuclear Science and Engineer-
ing

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 Engineer-
ing
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 Plane-
tary Sciences

McKenzie May Dinesen
Minor in Russian and Eurasian Studies

Brianna Ferro

Tamara N. Hinderman
Minor in Earth, Atmospheric, and Plane-
tary Sciences
Minor in German

Zen Chi T. Ho Sang
Minor in Materials Science and Engineer-
ing

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 Plane-
tary 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 Engineer-
ing

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 Ajienska

(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: Disorder 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 Díaz 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-Dayana

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 Magnetolectric 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
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State Estimation in Dynamical Robotic
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Adriana Ladera
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Accelerating the Discovery of Novel
Metal Organic Chalcogenolates: A
Computational and Machine Learning-
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Shania Mitra
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Evelyne Pélagie Ringoot
(September, 2024)
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Immersed Methods for PDEs on Complex
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Ting-Ying Yu
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*Program in Data, Systems, and
Society*

Rui Ai
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Expectation-Dependent Multi-Armed
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Kaveh Alimohammadi
Differentially Private Synthetic Data
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Chenhui Zhang
VLEO-Bench: A Framework to Evaluate
Vision-Language Models for Earth
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Impact of 24/7 Carbon-Free Energy
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Privacy-Preserving Collaborative Cyber
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A Bill of Assumptions to Improve Data
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(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-
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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

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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
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Sustainable Engineering of Polyethylene
Fiber Materials: Advancing Functional
Properties of Diverse Textile-Based
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(February, 2025)
Decoding Computational Text
Generation: A Policy Framework

Nadia Rehman Khan

Towards a Circular Lunar Economy:
Embedding Reusability into the Design
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(See also S.M., Course VI)
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(See also S.M., Course XVI)
Emissions Impacts of Future Launch
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Benjamin Wettstein

Policy and Technical Frameworks for
Autonomous Offensive Military Cyber
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Estelle Claude Aline Martin

(See also S.M., Course XVI)
Global Sustainable Aviation Fuel
Production Potential from Current
Agricultural Production: A Holistic
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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
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Pragya Neupane

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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
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Shayaan Syed Subzwari

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

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Mapping Workforce AI Optimism:
Factors that Shape Workers' AI Outlook
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US and Europe

Sarah R. Wertheimer

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Looking at the Map, Together: Modeling
Treatment Center Location Selection and
its Effects on Access to Gene Therapy in
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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

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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

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Beam Mechanism Failure in Multistory Steel Frame Structures

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Metabolic Scaling Analysis of Building Energy Efficiency: A Case Study of Massachusetts Institute of Technology

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Response of Arabidopsis to Bacterial Presence under Iron Stress

Patricia King Lee

Optimal Design of Parallel Chord Trusses under Uniform Load

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

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

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

Nithyahari 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

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

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Data Acquisition for Enhancing Human-Informed Topology Optimization

Mengyuan Eileen Zhang

Interactive Topology Optimization with Hybrid Truss and Continuum Elements Types

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

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Machine Learning Methods for Churn Prediction and Infrastructure Resilience

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

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Safety Stock Modeling for a Medical Devices Supply Chain

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Decarbonization of Gas Heating in Massachusetts: An Evaluation of Current Trends and Opportunities

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Investigation into Sources of Volatility in Sortation Center Processes to Improve Productivity and On-Time Delivery

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Comparison of Finite Element Methods and Satellite InSAR for Monitoring Deformations of a Large Tailings Dam

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Forecasting Automotive Production Using Theta Model

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Reducing Excess Inventory in a Multi-
Echelon Supply Chain

Mohit Sanjay Kasliwal
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An Integrated Optimization Model
for Large-Scale EV Fleet Deployment:
Balancing Emissions Reduction and
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Amanda Marie Mackie
A Gnotobiotic Technique for Co-Culture
of Plants and Microbes on Phosphated
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William Paul McNulty
(See also M.B.A., Course XV)
Standard Work for High-Mix Low-
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Container for Package-Less Units

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Investigating the Capacity of Generative
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Interactions in *Brachypodium distachyon*

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(See also M.B.A., Course XV)
Optimizing Inventory Rebalancing:
Strategies for Managing Excess Inventory
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Haoting Pan
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(See also M.B.A., Course XV)
Hydrogen Adoption Dynamics: A
Flexible Modeling Framework for U.S.
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(See also M.B.A., Course XV)
Process Optimization and Proactive
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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
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Kayra Berk Ilkbahar
Development of an Apparatus and
Testing Strategy for Characterizing
Rolling Resistance of Omnidirectional
Wheels

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

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(September, 2024)
A Design Study Using Simulation
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Developing Discrete Machine
Connectivity Guidance: Enhancing
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(September, 2024)
FrED Manufacturing: A Study in
Affordable Manufacturing to Scale using
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Analyzing Vibration in Omni-Wheels:
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(September, 2024)
Implementation of Machine Connectivity
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Machine Connectivity Driving
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Manufacturing Industries

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The Impact of Process Substitution on
Manufacturing Costs: A Comparative
Analysis of Sheet Metal Forming versus
Extruded Steel Cutting

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The Impact of Process Replacement on
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(September, 2024)
Affordable Fiber Extrusion Device
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Design and Development of an
Accelerated Material Synthesis Platform
for Automated Materials Research

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

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

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

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The Use of System Theoretic Process Analysis (STPA) on Novel Tilt Rotor Aircraft to Prevent Mode Confusion

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Enhancing Performance of 2D Skeletal Muscle-Powered Robots

Priya Darshini Bhirgoo

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Evaluating the Feasibility of Electrified Process Heating for Drug Substance Manufacturing

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

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The Value of Digitizing Manufacturing Environments

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

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Incorporating High-Resolution Tactile Perception for Performative and Generalized Robotic Manipulation through Compliance Estimation and Hardware Design

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CO₂ Capture with Lithium Oxide in Molten Salt Media: A Case Study of CO₂ Capture via Electrochemically Produced Metal Oxide

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Integrated Multi-Modal Sensing in Soft Robotic Ciliary Arrays

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A Data-Driven Work Center Assignment and Pricing Strategy for a Job Shop

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(September, 2024)
Mechanics of Three-Dimensional Micro-Architected Interpenetrating Phase Composites

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

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

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

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Systems Approach to Component Code Optimization for Wound Closure Portfolio

Andrew Daniel Dugan

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

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Programmable Microgranular Materials with Hierarchical Architecture

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

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Precision Pointing for the CubeSat Laser Infrared Crosslink (CLICK) Mission

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Minimizing Cost of Intra-Yard Finished Vehicle Logistics Through Automation and Optimization

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Development of Dual Extruder Biomaterial 3D Printer

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Optimizing Raw Wire Inventory Management: A Data-Driven Approach to Demand Forecasting and Supply Chain Decision Support

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Economies of Space: Developing a Lean Manufacturing Framework for Work Center Floorspace Reduction

Gretel Scarlet Gonzalez Martinez

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

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(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

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Optimizing Automotive Production Scheduling to Reduce Finished Vehicle Inventory

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Microfluidic Platform for Vascularized Tissue Models

Julie Elizabeth Johnston

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

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Design Concepts for High-Acceleration Linear Actuators for Precision Motion

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

Donghyun Kim

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Forecasting the Lift of a Randomly Maneuvering Airfoil under Dynamic Stall Conditions, $Re \sim 10^5$

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

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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

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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

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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

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(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

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Model Predictive Control Approaches for Dynamic Table Tennis Swinging

Charmaine Nieves

A Fast Assay of Bacteria Cell Permeability for Genetic Transformation

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

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Decarbonized Cement Manufacturing via Advanced Production Technologies

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Investigating the Illusion of Wetness: Cold Dry Stimuli in Sensory Perception

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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

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Sharmi M. Shah

Barometer Based Tactile Sensing - Characterization, Processing, and Applications for Dynamic Manipulation

Alex Sirgo

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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

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

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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

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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 Yilmaz

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Development of Elastic Resistive Force Theory & Applications to Uprooting

Aaron Ross Young

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Designing Visual Intelligence from Photons to Action

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

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Combating Corrosion and Monitoring Microgrids on Coast Guard Patrol Boats

Robert Brandon Mannier

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Tension-Leg Platform for Offshore Diffusor-Augmented Hydrokinetic Turbine

Thomas Jeongho Song

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(See also S.M., Course VI)
Experimental Evaluation of Underwater Semantic SLAM

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Investigating the Use of Copper Mine Tailings in Cementitious Systems

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Maximizing Flexibility and Efficacy of Undersea Wireless UAV Power Transfer Systems

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Concentration-Dependent Thermodynamics and Kinetics in Lithium-Metal Battery Electrolytes: Implications for Coulombic Efficiency

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Geological Hydrogen through
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Characterization of Ultramafic Rocks and
Innovative Techniques for Sustainable
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Revolutionizing Educational Assessments
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Large Language Models for Verbal
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Campus-Wide Piano Data Collection and
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(September, 2024)
Red Teaming Language Conditioned
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Modeling Human-Informed Variables in
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Developing an Adaptive Sampling
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Building a Scalable Electrification
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Sabiyah Ali

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Non-Blocking Work Stealing Scheduler

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A Unifying Framework for
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A Microelectromechanical-Cantilever
Hydrogen Sensor with Palladium-Driven
Bending and Piezoresistive Readout

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(September, 2024)
Condensed Buck-Boost Switched
Capacitor Converter for Efficient Voltage
Distribution in Hydrogen Hybrid-Electric
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(September, 2024)
SongGen: Framework for Controllable
AI Song Generation through Interactive
Songwriting and Artist Emulation

Gaurav Arya

(September, 2024)
Automatic Bayesian Inference of Reaction
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(February, 2025)
Optimally Controlling No-Regret
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(September, 2024)
Adversarial Prompt Transformation for
Systematic Jailbreaks of LLMs

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(February, 2025)
Multimodal Graphical User Interface
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Analyzing Multimodal Interactions
through Improved Partial Information
Decomposition Estimation

Purvaja Balaji

(February, 2025)
Deep Learning-Based Classification of
Phonotraumatic Vocal Hyperfunction
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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

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The First Signs of Vision

Ryan Chang

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Optimizing SigmaOS for Efficient
Orchestration of Fault-Tolerant, Burst-
Parallel Workloads

Anugrah G. Chemparathy

Computational Targeted Codon
Optimization and Translation with Deep
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Metagradient Descent: Differentiating
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Convergence of the Arnoldi Iteration for
Estimating Extreme Eigenvalues

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(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

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

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

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(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

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Improving Protein Representation Learning with Multimodality and Biological Priors

Nayoung Chae

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Fan Chen

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The Statistical Complexity of Locally Differential Private Estimation and Decision Making

Mengzhu Chen

(February, 2025)
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Qihang Chen

Optimizing Microservice Design Parameters

Ian Robert Christen

(February, 2025)
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Dominic Lim Co

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Mehul Damani

(February, 2025)
Input-Adaptive Allocation of Language Model Computation

Tong Dang

(February, 2025)
Design and Optimization of Tunneling Nanoelectromechanical Switches

Patrick Kanan Darmawi-Iskandar

Highly Scaled p-GaN-gate HEMTs for Low Voltage Power Electronics

Arijit Dasgupta

Uncertainty-Aware Joint Physical Tracking and Prediction

Daniel Markus DeSantis

(September, 2024)
Spatially-Adaptive LiDAR and Underwater Communications Using Integrated Optical Phased Arrays

Javier Ricardo Diaz Peñaloza

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Responsive City Planning through the Lenses of Natural Language Processing (NLP): A case study of TransMiCable in Bogotá, Colombia

Yifei Duan

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AI-Powered Data Mining for Sustainable Concrete

Kareem H. El-Sisi

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Joshua Adam Engels

Towards More Interpretable AI With Sparse Autoencoders

Julia Estrin
(September, 2024)
High-Efficiency Soft-Switched Pulsed
Plasma Bias Supply System

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

Jie Fan
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Redefining Urban Landscapes:
A Methodological Approach to
Transforming Underused Parking Spaces
with Dynamic Urban Functions

Nolan Edward Fey
Bridging the Sim-to-Real Gap for Athletic
Loco-Manipulation

Gerardo Andres Flores
(September, 2024)
Machine Perception of Digit Symbol
Tasks for Alzheimer's Classification

Hans Theodore Gaensbauer
(September, 2024)
Contact Free Monitoring of Cell Density
in a Bioreactor with Magnetic Resonance
Relaxometry

Gabriel Andres Gallardo Moncayo
(See also M.B.A., Course XV)
Transforming Unstructured Data into
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Generative AI in Operational Technology
Problem Management

Jin Gao
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Mediators: Participatory Collective
Intelligence for Multi-Stakeholder Urban
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Andres Garcia Coletto
(September, 2024)
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Based Modulators and Grating-Based
Antennas

Matin Ghavami
GPU-Accelerated Enumerative Inference
for Probabilistic Programs

Hannah Taylor Gold
(February, 2025)
Genetic Algorithm Gradient Ascent
(GAGA) Optimization of Compact
Symmetry-Breaking Photonic Crystals

Courtney Kathleen Golden
Unifying Iterative Sparse Computations
with Flexible and Efficient Hardware

Ayush Sagar Gupta
Dipole Contact Engineering for Field-
Effect Transistors Based on Two-
Dimensional Materials

Sharut Gupta
(February, 2025)
Towards Semantic Image Representations
in Self-Supervised Learning

Aparna Ajit Gupte
How to Construct Quantum Fully
Homomorphic Encryption, Generically

Seungwook Han
Inference-Time Alignment and
Personalization for Large Language
Models

Rachael Harkavy
(See also M.B.A., Course XV)
Forming the Future: A Digital
Approach to Simulating Thermoplastic
Manufacturing

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

Zhiping He
(September, 2024)
Magnetic Weyl Semimetals for Spintronic
Applications

Darryl Ho
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Encoder-Agnostic Learned Temporal
Matching for Video Classification

Andrew Thomas Hoopes
(February, 2025)
VoxelPrompt: A Vision-Language Agent
for Grounded Medical Image Analysis

Yi-Hsuan Hsiao
(February, 2025)
Modular and Scalable Fabrication of
Insect-Scale Aerial Robots Towards
Demonstrating Swarm Flights

Jenny Yijian Huang
Approximations to Worst-Case Data
Dropping: Unmasking Failure Modes

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
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Domain Adaptation of VLM for Soccer
Video Understanding

Yixuan Jiao
CMOS-Compatible Wafer-Scale
Synthesis and Rapid Characterization
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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 Manage-
ment)
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)

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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

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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 AlGaIn 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

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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

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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

Attended School of Chemical Engineering Practice in Lieu of Thesis

Yuhan Ding

(September, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

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(September, 2024)
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(February, 2025)
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Attended School of Chemical Engineering Practice in Lieu of Thesis

Noémie Köbke

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

Alexandra Kousiniotis

(September, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Pradeep Natarajan

(September, 2024)
(See also Ph.D., Course X)
Attended School of Chemical Engineering Practice in Lieu of Thesis

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Attended School of Chemical Engineering Practice in Lieu of Thesis

Xiaoqi Sun

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Alison Victoria Sundem

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

Saeed Ahmed Syed

(February, 2025)
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Siqi Wu

Attended School of Chemical
Engineering Practice in Lieu of Thesis

Julie Yu

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

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Aeronautics and Astronautics**

Course XVI

*Department of Aeronautics and
Astronautics*

Frederick Henry Oladimeji Ajisafe, Jr.

(February, 2025)
Using Systems Architecture and the
EVDI 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

Maria 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 $(\alpha+\beta)$ Ti Alloy

Samuel T. Costa

(September, 2024)
A GPU-Enabled Building Block Flow
Model for Computational Fluid
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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
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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
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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
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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 *Limosilactobacillus Reuteri* on Responses to Inflammation DNA Damage in the Liver

Master of Science in Nuclear Science and Engineering

Course XXII

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)
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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
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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

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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	Kevin Robert Power	Hari Raghavendran Bhupathi Design of Future Energy Infrastructure: Understanding Trade-Offs between Renewable Capacity, Storage and Transmission Networks for Low-Carbon Landscape
Nicolas Taylor Holwerda	Sharada Maruti Prabhu	
Hsin Li Hsiang	Abhinav Rastogi	
I-Chen Hsieh	Jorge Alejandro Requena	Tanay Milind Deshpande Heuristic Solution Approach for the Heterogeneous Vehicle Routing Problem with Arrival-Time-Dependent Service Times
Zhaoxia Huang	Sandra Danbee Rhee	
Alwyn Geoffrey James Johnson	Sarah Marie Roman	
Anshuman Mariappan Kandaswamy	Elisa Ruiz Mugica	<u>Master of Science in</u> <u>Engineering and Management</u> <i>Program in System Design and Management</i>
Emma Pauline Manon Kébaïli	Anthony Alexander Saunders	
Doaa Abdelwahab Ahmed Ahmed Khalil	Paula Constanza Servideo	Mohamed Mamdouh Ali Osman (September, 2024) The Impact of Government Policies in Middle Eastern Countries on Digital Platform Startups
Hyungmin Matthew Kim	Marie Sonia Skaf	
Madison Alayne King	Yiming Tang	
Wirinratch Kirirak	Sreerag Thazhissery Gangadharan	Kabbod Alkhalil Proximity and Prenatal Care: Geographic Accessibility to Healthcare Facilities in N'Djamena
Kyungmin Kook	Cesar Jesus Valles Jaimes	
Tejaswini Kunduru	Diego Nicolas Vesga Acevedo	Mohammed Saud Alsehali System Design and Evaluation of Spectrum Management Architectures for Co-Primary Sharing in the 37 GHz Band
Yassine Lahlou-Kamal	Sebastian Alexis Villegas Pino	
Milton Lavia	Mingchao Wang	
Bryan Bennett Lendzion	Lydia Mae Whipple	Daniel Trevor Anastos Grid Enhancing Technologies: Optimization and Benefit for Distribution Grid
Shen Yeong Loo	Yun Tong Wu	
José Luis López Villalobos	Bharti Yadav	Naveed Arsalan (September, 2024) Calculation of Zakat on Financial Assets for American Muslims: A Financial and Jurisprudential Approach
Scott Marintsch	Xiaoli Yang	
Shane Daniel McGorty	Wenjia Yao	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
Haley Grace Miller	Nastasja Dinah Zaunick	
Olivia Eskew Morton	Mingrui Zhang	
Ngan Ngoc Nguyen	<u>Master of Engineering in</u> <u>Supply Chain Management</u> <i>Program in Supply Chain Management</i>	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
Tejveer Singh Oberoi		
Johnny Gonzalo Paredes Delgado		

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

Computational 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 Intangible 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 Manage-
ment)
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 Manage-
ment)
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 Manage-
ment)
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 Collegiate 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)

Kei Chuen Ma

(September, 2024)

Ariana Martine Mapua

(September, 2024)

Saeed Farah Miganeh

(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

Mahrugh 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 Web-ley-Brown

(February, 2025)

Democracy under Surveillance: The Effect of Pretrial Electronic Monitoring on Voting Behavior

Master of Science in Science Writing

Course XXI

*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 Energetic 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

Guy Yoav Leibovici

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	Kate Elizabeth Westervelt	Kevin Slattery Jaffe Brown
Shiv Kumar Redhu	Ding Jian Wong	Richard John Bruno
Yael Rosenblum	Guanjun Xia	Boris Alexander Bystrov
Sandeep Gautam Sahu	Chie Yamamoto	Sara Allison Campbell
Yong Sheng See	Liang Ye	Cristian Eduardo Capellino
Mayu Shimizu	Iryna Zhuravel	Michael Anthony Celone
Shalin Shrimali	<u>Master of Science in Management</u> Course XV-A (Sloan Fellows) <i>Sloan School of Management</i>	Dean Michael Cestari
Rajdeep Singh		Christiana Chen
Irma Isabel Socola Kcomt		Yunfeng Chen
Dominic Sudnik		Portia Lane Child
Ryohji Suzuki	Rodrigo Yerko Moscoso Strategic Cooperation in Water Management: A Game-Theoretic Approach to Sustainable Infrastructure in Chilean Mining	Jonatan Limber Chino Martinez
Brannon James Swallow	<u>Master of Business Administration</u> Course XV-E (Executive) <i>Sloan School of Management</i>	Adam Brian Cohen
Frances May Taheri		Tessa Noel Cooper
Kenta Takahashi		William John Cupelo
Katherin Liliana Tapia Huaman		Nimita Dave
Abhishek Thiagarajan	Ali Mahamat Abbassi	Nicole Marie Demarey
Aicha Toure	Rachit Agarwal	Owen Dempsey
Gokhan Tumel	Dominic Joseph Aloia	Lisa S. Erickson
Nyamsuren Tumor-Ochir	Angélica Andrade Oliveira	John Edem Fiadjoe
Jennifer Turliuk The Net Climate Impact of AI: Balancing Current Costs with Future Climate Benefits	Masooma Athar	Hernando Alfonso Fierro Porto
Eden Tzoubari	Itzhak Zachy Attia	Andrea Foncerrada
Jhonn Fredy Velosa	John Marshall Beckstead	Adamskie T. Francis
Jose Enrique Vera Ortega	Ross Alan Beyeler	Pablo Garcia Naranjo Toledo
Dingyan Wang	Prasenjit Jay Bhaumik	Michael Stanley Gee
Roy Weinstock	Andrew Bond	Damien Vaughn Green
	Alfred Robert Bonfantini, Jr	Alexandra Marie Hagerty
	Matti Mikael Brasse	

Naera Haghnazarian	David Dionne McManus	Joseph R. Scalea
Jesse Wilson Hamel	Phillip Rowan Miller	Andy Sevardzi
Kelley J. Henning	Kenneth Everitt Milstead	Humaira Shaikh
Miranda Jamieson	Peter Joseph Misek	Shikhir Singh
Hongyu Jiang	Francois-Ernest Mongory	Molly Wharton Smith
Mohamed Ahmed Kamal	Abdullah Al Moyeen	Steven Michael Smith
Suhail Karam Ali	Qing Nian	Jessica Lynn Souder
Rama Kataria	Michael Anis Nour	Bentley Andrew Strockbine
Eiko Kato	Kenny O'Trakoun	Sripriya Sundararaman
Deborah Elaine Keil	Kevin Shawn Oh	Carly Tatibouët
Kyle James Kekeisen	Ayokunle David Okeowo	Maureen Elizabeth Thyne
Christopher John Kenney	Andrei Oprisan	Maria Tkacheva
Prashanth Krotha	Linda Ow	Christian Tozzi
Tushar Kumar	John Michael Parillo	Maryan Tsar
David Lagares	Reshma Patel	Forrest James Underwood
Jaren Whitmore Landen	Kristen Mary Davis Petrenko	Koti Reddy Vanga
Rene Denis Largo	Diana Victoria Poroy	Nidhi Verma
Zhonggai Li	Maria Eleni Prokopiou	Gregoire Versmee
Joni Moselle Lipkowitz	Yuechen Qian	James Anthony Villarrubia
André Llamas Pasos	Lin Qiao	Kathryn Esper Wallach
Justin Scott Long Fixing the Broken Content Development Lifecycle: Starship Creative Global's Data-Driven Next-Gen Superhero Franchise	Timothy John Rajceovich Kishore Kumar Reddy	Wahyu Wardani Kurt Wasileski
William Roger Mainwaring-Burton	Anthony James Roland, Jr. DeAndrea Newman Salvador	Jacqueline Whalen Tyler Jackson Woodhouse
Mohammad Minhajuddin Malik	Jonina Sera Sauer	Teddy Earl Wright III
Joseph Brooks Mashburn	Rami Sayar	Margaret J. Yuan
Shiro Matsuzaki		

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 Balzaretta

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 Brigg

(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 Zermelo

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 Chaiyakitirajai

Ryan K. Chang

Stephanie Yeonji Chang

Britney Cheng	Isabella Danielle DiDio (See also S.M., Course I) Impact Evaluation and Prioritization Framework for Manufacturing Inspection Technology Investment	Stephen Connor Fox
Julie Chong (See also S.M., Course I) Safety Stock Modeling for a Medical Devices Supply Chain		Siobhan Isabel Fraile Ordóñez
Beny Chor	Priyanka Dinakar	Melanie Elizabeth Frank
Alexandra Jada Chou	Stephanie Maria Dotterer	Susannah Frechter
William Gisu Chung	Madeline Ruth Dubelier (See also S.M., Course II) Systems Approach to Component Code Optimization for Wound Closure Portfolio	Victor Fu
Christopher James Connett		Alessandro Fumi
Jennifer Constanza	Andrew Daniel Dugan (See also S.M., Course II) Fully Connected Digital Ecosystems within Hospitals - AI/ML Solutions for Improved Patient Care	Klaus Gabler
Nicolás Diego Sebastián Correa Fernández		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
Clemence Marie Mathilde Couteau	Xueyan Dun	Weilong Gao
Mengrui Marissa Cui	Jacob Calvin Dyer	Jeremy Brian Garber (See also S.M., Course II) Minimizing Cost of Intra-Yard Finished Vehicle Logistics Through Automation and Optimization
Thomas Cordell Cummings	Courtney Nicole Elston	
Aleksandra Kasza Czulak	Christopher Michael Emerson	Alejandra Garcia
Putri Damayanti	Min Hyeok Eom	José Ramón Garza Contreras
John Lothrop Daniels	Andrew Dorsey Epstein (See also S.M., Course I) Decarbonization of Gas Heating in Massachusetts: An Evaluation of Current Trends and Opportunities	Catalina Garza Lozano (See also S.M., Course X) Predictive Model for Battery State of Health
Katherine Dao	Nathaniel Lucas Ezolino	Regina Garza Rubio
Arjun Navneet Dave	Catalina Verplanck Feder	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
Onetoritsebawoette Naomi David	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	
Cameron Scott Davis	Irene Ferrari	Kevin Willis Gelston
Jana Haas Davis	André Ferreira Schweizer	Madeleine Marguerite Généreux
Amaury Simonne Denis De Bock	Devon Ann Fiorino	Shawn Sabu George
Maria Luisa De Moura Costa Alemao Queiros Oom	Ariel Flasterstein Salazar	
Alexandra Lee Decker		
Swaraj K. Dharia		

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 Psychojos 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	Jasmin Liu	William Paul McNulty (See also S.M., Course I) Standard Work for High-Mix Low-Volume Operations
Stefan Klein Baur	José Ignacio Llodrá Vial	
Jonathan David Klinner	Sarah Lober	Christine Tess Meder
Rachael Auline Knapp (See also S.M., Course II)	Carla Lorente Anon (See also S.M., Course VI) Multimodal Generative AI Chatbot for Root Cause Diagnosis in Predictive Maintenance	Holly Huckins Meers
Yawa Ella Komlanvi		Avni Mehta
Pallavi Krishnamurthy	Andrew Christopher Lu	Tej Amit Mehta
Tanachart Kujareevanich	Peter Ryan Lutter	Benjamin Mejia-Tickner
Vighnaa Kumar Kunendran	Laura Huang Ly	David Edgar Merkel
Minchae Kwak	Austin Davis Maddox	Ian Peter Meyer
Agustin Jose Lagos Charme	Amna A. Magzoub (See also S.M., Course II) Design Transfer as a Lever for Accelerated Medical Device Innovation: A Case-Based Mapping Approach	Juan Pablo Miery Peralta
Tracy Jean Lahey		Camilo Andres Milic Valenzuela, Sr.
Rocio Larraguibel Rubio		Chuyue Ming
Easlynn D'Marjorie Lee	Bonny Mahajan (See also S.M., Course VI) Generative AI in Private Equity for Accumulative Advantage	Baraka Wilnest Fares Minja (See also S.M., Course I) Design & Optimization of Shipping Container for Package-Less Units
James J. Lee		
James Zhi Hern Lee	Vidur Malhotra	María Cristina Mondragón Chapa
Ji Eun Lee	Maxwell Xavier Malinowski (See also S.M., Course II)	Juan Diego Montes de Oca Quinde
John Robert Edward Lee V	Shuqi Mao	Winifred Monu-Azinge
Kwang Jun Lee	Connor Martin	Mateo Morales Jaramillo
Ana Carolina Lelis Alves	Jorge Martin Poza	Charlotte Victoria Morris
Linda Wei Li	Diego Martinez Duvall	Emily Nell Moss (See also M.C.P., Course XI)
Jingjing Liang	Juan Ignacio Martinez De Aretxabala	Masaki Muroya
Mengyuan Liao	Joanna Patricia Narido Matias	Aishwarya Nambiar
Sharon Liao	Natalie Marie Mayer	Anirudh Nambiar
Lorenzo Ligato	Carl William McKay	Cyril Nasr
Pedro Henrique Lima do Nascimento		
Frank Yilong Lin		

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

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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

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Master of Finance
Course XV-F
Sloan School of Management

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Jiayi Zou
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**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 AI 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 $\sqrt{s_{NN}} = 5.02$ 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

Shaunticlaire 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

AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION

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 Beyond 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 Exogenous 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 Multicoil 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 Khodaei

(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

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Amy Elizabeth Stoddard

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Constantine Nicholas Tzouanas

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Doctor of Philosophy

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Maša Močnik

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Víctor Manuel Quintas i Martínez

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Alex Reiss Sorokin

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Research: A Novel Machine Learning Approach to Robust Optimization: Theory and Applications

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Nonreciprocal Phenomena in
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Tidal Evolution of Planetary Satellites:
Implications for Jupiter's and Saturn's
Obliquities and Titan's Climate

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Scales of the Nucleus: Understanding
Short Range Correlations from Medium
Modification to Scale Independence

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Chemistry: Weak Shock Waves on a Chip:
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Calista Sorine Diehl

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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

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Thesis in the field of Microbiology
submitted to the Department of Biology:
Novel Applications of Gene Editing in
Biosecurity and Neuroethics

Audrey Helen Effenberger

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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

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Thesis in the field of Mathematics:
Ponderomotive Forces in Pilot-Wave
Hydrodynamics

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Chemistry: Chemical Sensing of
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Groups

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Muons, Moments, Models, Machine
Learning, Measurements, and More: A
Manifesto on Collider Physics

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Profiling of Dopaminergic Mitochondria:
Adaptations to the Axonal Environment
in Health and Disease

Ali Ghorashi

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From High-Throughput Screening to
Atom-by-Atom Engineering

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Compatible Molecular Color Centers for
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Wave-Based Imaging

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Chemistry: Using Ribonucleases to
Elucidate the Impact of Chemical
Modifications on Enzyme Function

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Laminar Motifs of Aperiodic and
Oscillatory Activity in Humans and Mice

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Elizabeth Ann Hemenway

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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

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Fatima Husain

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Measurements from Correlations to
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Dynamics of Chronic HIV Infection and
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for Studying Infants' Attention

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Structural and Magnetic Characterization
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Investigating the Roles of Scn4b in
Huntington's Disease Pathogenesis

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Individual Premotor Neurons Using
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Thesis in the field of Physics: The
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Phases of QCD

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Atlas of Developmental Cell Type
Diversity across Mammalian Brain
Regions and Improved Tools to Study
Macroglia

Gregory Kyle Kenneth Schuette

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Predictions of Chromatin: Generative AI
Sheds Light on Genome Organization

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Thesis in the field of Planetary Science
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Surface Expression in Stressed Planetary
Materials

Chanan David Sessler

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Genetically Targetable Photosensitizers
Enable Novel Neuromodulation and
Proximity Labeling Techniques

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Chemistry: Explorations into Machine
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Stephanie Rose Smelyansky

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Mycobacterial Cell Envelope Glycans

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Mitigation in Tokamaks: or, How to Kill
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Pizzazz

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Doctor of Philosophy

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Lukas Taenzer

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Benjamin Hayden Tiger

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submitted to the Department of Earth,
Atmospheric, and Planetary Sciences:
On the External Forcing of Indian Ocean
Climate Variability Across Timescales

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(February, 2025)

Thesis in the field of Chemical
Oceanography submitted to the
Department of Earth, Atmospheric, and
Planetary Sciences: Tracking Carbon
Fluxes across Ocean Interfaces Using
Dissolved Gas Observations

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(February, 2025)

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submitted to the Department of Earth,
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Decadal to Centennial-Scale Climate
Interactions Across the Indo-Pacific
Region

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Thesis in the field of Biological
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Department of Earth, Atmospheric,
and Planetary Sciences: Reproduction,
Settlement, and Phenology of Intertidal
Barnacles: Implications for Larval
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Thesis in the field of Biological
Oceanography submitted to the
Department of Earth, Atmospheric,
and Planetary Sciences: Movement and
Trophic Ecology of Large Pelagic Fishes
Connecting Surface Waters with the
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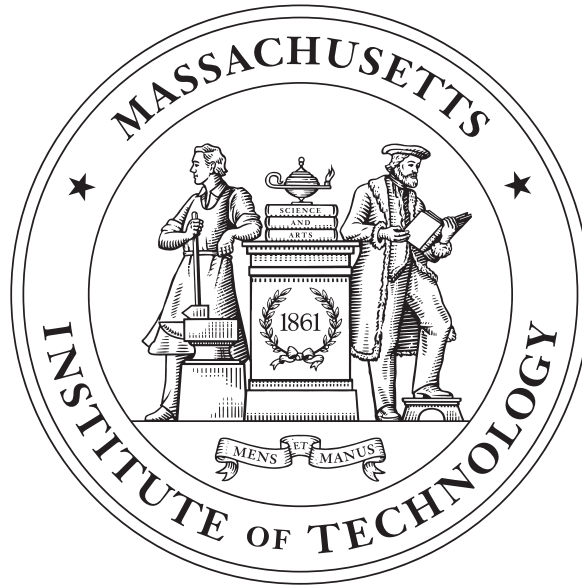
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