

Summer 2026 Award Recipients

College of Arts and Sciences

Deqa Abdi

Urbanization and the Shift from Roots to Canopies: Mechanisms of Nutrient Uptake and Stress Tolerance in City Trees

Jennifer Bhatnagar (CAS, Biology)

Oluwatofe Akinyanmi

Storytime: Observing Children's Understanding of Anomalous Words in a Context-Rich Environment

Anthony Yacovone (CAS, Linguistics)

Beren Akpinar

Dimensionality Reduction of Latent Neural Dynamics underlying Abstract Perceptual Decisions in the Macaque Prefrontal Cortex

Chandramouli Chandrasekaran (CAS, Psychological & Brain Sciences)

Rida Ali

Imran Khan - A Threat to the Pakistani Military Establishment.

Nasir Almasri (CAS, Political Science)

Angelo Amato

Benchmarking Visual Reasoning in Multimodal LLMs Through Same-Different Judgments on Graphs

Najoung Kim (CAS, Linguistics)

Mikael Aznauryan

Nonlinear Dielectric Effects in Aluminum Nitride Micromechanical Resonators

Raj Mohanty (CAS, Physics)

Paul Bae

Microbial Ecology of Strytan Hydrothermal Field: a Shallow Alkaline Hydrothermal Vent

Jeffrey Marlow (CAS, Biology)

Felix Bagurskas Rubio

A systematic analysis of type theoretic paradoxes

Nathan Mull (CAS, Computer Science)

Alexander Balsera

Classical Hamiltonian Dynamics: Classical-Quantum Correspondence in Dynamical Phase Transitions and Thermalization.

Anatoli Polkovnikov (CAS, Physics)

Grace Barron

Émilie Du Châtelet Prefiguring Kant
Miguel Ohnesorge (CAS, Philosophy)

Alan Bernstein

Synthesis of Pyrimidine-Substituted Analogues of Aglaroxin C
John Porco (CAS, Chemistry)

Madeline Bodor

Understanding oxidase versus dehydrogenase reactivity through NicA2 mutagenesis
Karen Allen (CAS, Chemistry)

Abe Borst

Defining How Rocaglaol Suppresses Inflammatory Microglia Using Multiomic Analysis
Melissa Pergande (CAS, Chemistry)

Theo Brink

The Geography of Race and Ethnicity in the United States: Uncovering a Hidden History of Expulsion and Exclusion
Martin Fiszbein (CAS, Economics)

Lucy Brisman

What Made Immigrants American: An Oral History Analysis of Assimilation at Ellis Island
Lagakos David (CAS, Economics)

Colin Burns

Characterization of Microbial Communities in Volcanic Basalt through BONCAT and Metagenomic Assessment
Jeffrey Marlow (CAS, Biology)

Maya Butkevich

Exploring Spatial and Temporal Variability of Caribbean Coral Reef Decline
Les Kaufman (CAS, Biology)

Enoch Chang

Fabrication and Comparison of Ligand-decorated Polymeric Lipid Nanospheres and Nanorods
Bjoern Reinhard (CAS, Chemistry)

Rishin Chatterjee

Scripture Shaping Surgery: The Influence of Islam in Al-Andalus and Christianity in Medieval Europe on the Development of Medicine
Phillip Haberkern (CAS, History)

Kavya Chaturvedi

Investigating the Role of M6 in Synaptic Pruning and Degeneration Using *Drosophila melanogaster*
Kim Mccall (CAS, Biology)

Bethany Chen

Correlating Seagrass Health, Epiphyte Cover, and Conch Abundance in Caribbean Seagrass Meadows

Alyssa Novak (CAS, Earth & Environment)

Elise Chick

Sex-Specific Thermal Resilience in Corals Under Acute Heat Stress

Sarah Davies (CAS, Biology)

Andrew Cho

Evaluating Passive Acoustic Monitoring Models and Identifying Individual Orangutans Using Bioacoustic Machine Learning

Cheryl Knott (CAS, Anthropology, Biology)

Allison Cinelli

Effects of Invasive Turf Algae and Encrusting Bryozoan on Growth and Reproductive Success of New England Kelp

Karina Scavo Lord (CAS, Biology)

Beckett Coffman

Fabrication and Characterization of Ultrafast Photophysics of Astaxanthin in the Strong Light-Matter Coupling Regime

Minjung Son (CAS, Chemistry)

Nadav Cohen

Fragmentation and Coordination: The Evolution of Housing Discourse in Greater Boston

Marcus Walton (CAS, Political Science)

Catalina Coleman

19th and Early 20th Century Music, Politics, and War

James Johnson (CAS, History)

Deirdre Congdon

The Just Transition Question: When Low-Carbon Industry Meets Legacy Labour Markets

Benjamin Sovacool (CAS, Earth & Environment)

Isabella Cruz

Effect of Parental Environment on Larval Behavioral Phenotypes of Amphiprion percula

Peter Buston (CAS, Biology)

Ivy Dang

Chemical Vapor Deposition (CVD) Synthesis of Zirconium Carbide (ZrC) Thin Films

Xi Ling (CAS, Chemistry)

Thai Daniel

The experience of BIPOC Children with Autism; a study on Intersectional Social Impacts on Personally Motivated Interests

Kristin Long (CAS, Psychological & Brain Sciences)

Noah Darby

Cup-Curn: Analyzing Form-Based Prediction Mechanisms in Children Aged 5-6 Years Old

Anthony Yacovone (CAS, Linguistics)

Rafaela Datel

Psychological Treatments for Depression in Individuals on the Autism Spectrum: A Meta-Analysis

Martha Tompson (CAS, Psychological & Brain Sciences)

Alev Egilmez

Understanding the contributions of information-theoretic properties to curiosity-driven behavior and aesthetic choice

Joseph McGuire (CAS, Psychological & Brain Sciences)

Jiafei Fan

Evaluating a GPU Operating System Model for Low-Latency LLM Serving

Jonathan Appavoo (CAS, Computer Science)

Rose Fas

An investigation on the regulation of Draper Cleavage during ovarian development in Drosophila

Kim McCall (CAS, Biology)

Matteo Finnerty

Using airborne eDNA to detect the critically endangered Peruvian yellow-tailed woolly monkey (*Lagothrix flavicauda*) in regions with suitable habitat

Christopher Schmitt (CAS, Anthropology, Biology)

Lucas Gibbons

Modeling Pressure Drop for 2-Phase CO₂

Zeynep Demiragli (CAS, Physics)

Adam Godel

Devising an Efficient Secure Edit Distance

Vasiliki Kalavri (CAS, Computer Science)

Grace Halepis

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Margaret Litvin (CAS, World Languages & Literatures)

Albina Han

Investigation of Cross Coupled Sulfonamide Synthesis of Pyridopyrimidinone Scaffolds as Potential Broad-Spectrum Antiviral Therapy.

Scott Schaus (CAS, Chemistry)

Logan Hiller

A Photographic and Genomic Analysis of Coral-Associated Communities Across Marine Habitats

Karina Scavo-Lord (CAS, Marine Biology)

Princess Jain

Revealing novel climate futures: Integrating country-level data on human behaviour and national emissions to simulate the interactions of perception on climate policy

Patrick Keys (CAS, Earth & Environment)

Moksh Jhawer

John Finnerty (CAS, Biology)

Yasheng Jiang

Stress Evolution During Low Energy Ar⁺ Bombardment of Silicon and Polymers

Karl Ludwig (CAS, Physics)

Breckan Johnston

Descriptivist Arguments Against Rigid Designation

Michaela McSweeney (CAS, Philosophy)

Beyla Khabensky

Russian Voices

Irina Kogel (CAS, World Languages & Literatures)

Parth Kheni

Predicting Relativistic Electron Precipitation From Solar Wind

Wen Li (CAS, Astronomy)

Mielat Kiflu

Investigating Alpha-2 Adrenergic Receptor Blockade in Evidence Accumulation in Rats

Benjamin Scott (CAS, Psychological & Brain Sciences)

Matthew Kim

Uncertainty Quantification in Projected Crop Planting and Harvesting Dates Across California Croplands

Michael Dietze (CAS, Earth & Environment)

Christian Kohnle

Fast IR-Resummed Two-Loop Power Spectrum via Basis Coefficient Mapping in EFTofLSS

Zeynep Demiragli (CAS, Physics)

Karen Kong

Environmental regulation of plant defense compound production in *Arabidopsis thaliana*
John Celenza (CAS, Biology)

Griffin L'Italien

Slides & Ladders Study 2 (Effects of social disadvantage on children's emotions, cognition, and motivation): Extension of Study 1, add non-social control condition.
Peter Blake (CAS, Psychological & Brain Sciences)

Devangi Lamba

Investigation of group differences in the relation of attention, cognition, and gait in Parkinson's disease and healthy older adults
Alice Cronin-Golomb (CAS, Psychological & Brain Sciences)

Mary Lareau

Testing Ketamine's Potential as a Therapeutic Agent to Rescue Intellectual Disability
Hengye Man (CAS, Biology)

Jenna Le

Investigating the Role of Norepinephrine in Decision-Making Using SHANK3 Mice as a Model of Autism
Benjamin Scott (CAS, Psychological & Brain Sciences)

Lyndsay Lynch

Explanation Detail Study
Deborah Kelemen (CAS, Psychological & Brain Sciences)

Comfort-Maryam Mayenli

Development of Electron-Withdrawn Cy7 Photocages for Improved Solubility and Enhanced Near-Infrared Light Activation.
Aaron Beeler (CAS, Chemistry)

Ava McClatchie

Investigating Quantum Interference Effects within Molecular Break Junctions
Maria Kamenetska (CAS, Chemistry, Physics)

Chase McCray

Policing the Classroom: Teacher Perspectives on Officers in Schools and Disciplinary Reliance
Spencer Piston (CAS, Political Science)

Olivia Mills

A Genealogy of Institutional Abandonment and the Unclaimed Dead in Massachusetts
Andreana Cunningham (CAS, Anthropology, Archaeology, African American & Black Diaspora Studies)

Mason Murchison

investigating the effect of parental environment on larval morphology in *Amphirion percula*
Robin Francis (CAS, Biology)

Layla Nguyen

Investigating circuit-specific roles of Clasp2-dependent myelination in memory and motor learning
Angela Ho (CAS, Biology)

Duc Thanh Nguyen

Macroeconomic Dynamics of Large Currency Devaluations: Estimating Impulse Responses via Local Projections
Joaquin Blaum (CAS, Economics)

Tahalia Nira

The Language of Killing: From Adolf Eichmann to Rwanda, How Genocide Perpetrators Explain Themselves
Phillip Haberkern (CAS, History)

Ashton Nourie

Forced Emigration and Experiences of Displacement Amongst German Minorities in Slovakia and the Broader Historical Context
Jonathan Zatlin (CAS, History)

Nana Okyere

Cloning and In Vitro Expression of Serine/Threonine Kinase 1 (PknB) from *Staphylococcus aureus*
Karen Allen (CAS, Chemistry)

Mika Or-Barkan

The Role of Gender in Social Perceptions of Focused Interests in Autistic Children
Kristin Long (CAS, Psychological & Brain Sciences)

Priyanshi Panchal

Upgrade and Assembly of CERN Apollo Boards
Zeynep Dermiragli (CAS, Physics)

Jonathan Park

Single-Cell Characterization of Microglial Phenotypes in the APP NL-G-F Knock-In Model of Alzheimer's Disease
Tuan Leng Tay (CAS, Neuroscience)

Khushi Patel

Relevant Parameters Defining Motion Processing Deficits in Autism Spectrum Disorder
Arash Yazdanbakhsh (CAS, Neuroscience)

Sam Pingree

The Tale of Genji Made Real: Visualizing Spaces in Heian-era Japanese Poetry
Keith Vincent (CAS, World Languages & Literatures)

ALDEN PIXLEY

Human KHK-C catalyzes fructose via an acid-base mechanism at the Asp258 residue
Dean Tolan (CAS, Biology)

Sasa Ramos

To Build a Home: How Immigrant Survivors Navigate Housing Insecurity
Japonica Brown-Saracino (CAS, Sociology)

Pratiush Regmi

CMS Muon Subsystem Data Acquisition Upgrade for HL-LHC
Indara Suarez (CAS, Physics)

Esther Rene

Testing the Front End Electronics for the MIP Timing Detector's Endcap Timing Layer
Indara Suarez (CAS, Physics)

Riana Richani

"The Transnational Architecture of Trauma:" A Comparative Study of Childhood Narratives in
Lebanese and Korean War Literature
Margaret Litvin (CAS, World Languages & Literatures)

Akash Rijhsinghani

Enhanced Computational Modelling of Dodecylphosphocholine (DPC) Micelle Formation
John Straub (CAS, Chemistry)

Grace Roberts

Using CRISPR gene editing to mutate regulatory upstream ORFs in the pant Arabidopsis
thaliana
Chip Celenza (CAS, Biology)

Gavin Rohrer

Nested Permissions for Disjoint Reasoning
Ankush Das (CAS, Computer Science)

Iskander Rzaev

Synthesis, characterization, and reactivity of Titanium-oxo, -peroxo, and possible -superoxo
complexes with perfluorinated pinacolate alkoxide ligands.
Linda Doerrer (CAS, Chemistry)

Layton Sahler

Literary topology and relational landscapes: visualizing the intersecting networks of space,
poetry, and gender in The Tale of Genji
Keith Vincent (CAS, World Languages & Literatures)

Mia Sandfort

Characterizing Reelin's Role in Learning and Memory

Uwe Beffert (CAS, Biology)

Emma Santos

Detailing the Spatial Regulation and Functional Role of Pks2 in Sea Urchin Skeletal Development

Cynthia Bradham (CAS, Biology)

Aditi Sharma

Strengthening Memory Through Wakeful Reactivation and Hippocampal Network Stimulation.

Robert Reinhart (CAS, Psychological & Brain Sciences)

Emmett Shei-House

Statistical Analysis of Ion Return Flows in the Martian Magnetotail Using Real-Time Solar Wind Measurements

Chi Zhang (CAS, Astronomy)

Miffy Song

Dopamine Dynamics Across Striatum in Freely Moving Mice

Mark Howe (CAS, Psychological & Brain Sciences)

Matt Spencer

The Impact of Early Educational Opportunities on the Intergenerational Economic Mobility of Black Americans

David Lagakos (CAS, Economics)

Philipp Standring

Emotion Regulation and Affective Variability: Momentary Associations with Depressive Symptoms

Qimin Liu (CAS, Psychological & Brain Sciences)

Patrick Stuart

Online software for CMS tracker upgrade

Zeynep Demiragli (CAS, Physics)

Sophie Sun

Punishment Through Time: A Reductionist Account of Penal Theory

Susanne Sreedhar (CAS, Philosophy)

Ada Sussman

Mapping Student/Police Interactions on College Campuses in the Boston Area.

Jessica Simes (CAS, Sociology)

Sophia Tierney

Modeling Benthic Solar Exposure to Improve Seagrass Restoration Site Selection in Coastal Massachusetts

Cedric Fichot (CAS, Earth & Environment)

Tania Torres Martinez

The Construction of Latinidad through the Lens of Collective Memory

Pamela Zabala Ortiz (CAS, Sociology)

Adam Vilama

Bridging the Gap: Investigating Hesitancy among Science Instructors towards Evidence-Based Teaching Practices

Binyomin Abrams (CAS, Chemistry)

Nithya Vuppalapati

“The Genetic Influence on Oligodendrocyte Proliferation and Maturation in Response to Learning and Memory Tasks”

Jerry Chen (CAS, Biology)

Michael Wakeham

BabyVLM

Boqing Gong (CAS, Computer Science)

Fox Williams

Mapping the Boundaries of Quantum Chaos in Photon Energy Pumps

Anushya Anushya (CAS, Physics)

Anna Winter

Investigating the effects of parental environment on larval respiration of Amphiprion percula.

Sarah Davies (CAS, Marine Biology)

XiaoAn Wu

Electrochemical Catalysis of a [4+2] Ring Expansion for the Synthesis of Piperidine Derivatives

Joseph Derosa (CAS, Chemistry)

Ryan Wu

Experimental basis and investigation of the chaotic calcium dynamics of uterine smooth muscle cells.

Eric Chang (CAS, Mathematics)

Jessica Wu

Disproportionate Rates of Incarceration and Its Systemic Effects on Families and Communities

Saida Grundy (CAS, Sociology, African American & Black Diaspora Studies)

Artemiy Yakushin

Asymmetric Allylboration of Aldehydes Catalyzed by Chiral Diols

Scott Schaus (CAS, Chemistry)

Julian Yang

Computational Modeling and Data Analysis of Chaotic Dynamics in Uterine Smooth Muscle Cells

Eric Chang (CAS, Mathematics)

Emma Cate Yungwirth

Implementation and effectiveness of Community Wildfire Protection Plans in the rapidly expanding southeast USA

David Demeritt (CAS, Earth & Environment)

Claire Zhang

Examining the influence of anthropogenic food consumption on gut microbiome composition and diversity in wild vervet monkeys (*Chlorocebus pygerythrus*)

Christopher Schmitt (CAS, Anthropology, Biology)

Jingxuan Zhang

Particle Energization and Wave–Particle Interactions in Hot Flow Anomalies and Their Spontaneous Counterparts

Chuanfei Dong (CAS, Astronomy)

Wheelock College of Education & Human Development

Isabella Chan

Barriers Beyond Release: Structural Gaps in College Admissions Access and a Targeted Resource Toolkit for Formerly Incarcerated Youth, Counselors, and Programs

William Rodriguez (Wheelock, Youth Justice & Advocacy)

Esther Kim

Parental Ethnotheories and Children’s Learning With Artificial Intelligence

Kathleen Corriveau (Wheelock, Applied Human Development)

Florencia Zárate Rodríguez

Peripheral Vision Abilities in Deaf and Hearing Adults

Erin Campbell (Wheelock, Language & Literacy Education)

Gisella Zerlotti

Personalized AI Instruction and Literacy Outcomes for students in K-3 Grades

Ola Ozernov-Palchik (Wheelock, Language & Literacy Education)

Colleges of Communication and Fine Arts

Milena Fernsler

Fables of the Dolomites: Preserving Ladin Language and Folklore through Animation

Gregory Marinovich (COM, Journalism)

Gus Kim

All The World's A Stage: Mapping the Director/Designer Relationship in Western Theatre
Jon Savage (CFA, Scene Design)

Rachel Leone

Mapping Multimodal Political Humor: A Large-Scale Computational Analysis of Reddit Memes, 2012–2025
Ayse Lokmanoglu (COM, Emerging Media Studies)

Julia Schultze

Hampton Beach research project
Amy Geller (COM, Film & Television)

Robert Tedesco

Mapping Multimodal Political Humor Via Large-Scale Computational Analysis of Reddit Memes
Ayse Lokmanoglu (COM, Emerging Media Studies)

Dominic Yu

Idol Worship as a Business Model: Turning Fan Devotion into Clicks, Streams, and Royalties at Japan's MUSIC FOR MUSIC
Kinh Vu (CFA, Music, Music Education)

Pardee School of Global Studies and Questrom School of Business

Tamerlan Baimurat

Second Pair of Eyes: Evaluating Large Language Models as Safety Layer for AI scribing tool for Clinical Documentations & Scribes
Anita Carson (Questrom, Operations & Technology Management)

Kaitlynn Cherry

Network to Nihilism: Mapping Accelerationist Trends, Youth Radicalization, and Digital Extremism
Jessica Stern (Pardee, International Relations)

Charlotte Cheung

Powering China's Coal-Fueled Growth: U.S.-China Policy Engagement during the Early Reform Era, 1978-1992
Benjamin Goossen (Pardee, International History)

Injun Go

Redefining the Celestial Court: How the Qing Dynasty Weaponized Western Diplomacy in Korea
Aimee Genell (Pardee, International History)

Jessica Gusmao

In-Between Borders: The Experience of Brazilians in the U.S. and Return Experiences to Governador Valadares

Rachel Nolan (Pardee, International History)

Ely Hochfelder

Rebolado Atrás da Tela: Trans* Brazilian Interactions with Social Media as Cissexual Anti-Friction Devices

Jeff Rubin (Pardee, International History)

Siddhi Iyer

Remote Work Expectations vs. Reality: Impacts on the Division of Household Responsibilities Post Pandemic

Patricia Cortes (Questrom, Markets, Public Policy & Law)

Pramay Jain

Market Microstructure and Price Formation in 24/7 Perpetual Futures Markets

Andrea Vedolin (Questrom, Finance)

Sam Lee

Too Big to Compete: The Impact of Market Concentration and Antitrust Enforcement on Small Firm Entry in U.S. Industries

Fatema Fazendeiro (Questrom, Markets, Public Policy & Law)

Alexia Nastasia

How Two Cities in International Settings Strive to Increase Urban Resilience and Foster More Livable Environments: Lessons Learned from Saint Louis, Missouri, U.S.A. and Bucharest, Romania

Jeremy Menchik (Pardee, International Relations)

Rhea Sawhney

The transmission of Monetary Policy on Levered Firms

Andrea Vedolin (Questrom, Finance)

Velana Valdez

Network to Nihilism: Mapping Accelerationist Trends, Youth Radicalization, and Digital Extremism

Jessica Stern (Pardee, International Relations)

College of Engineering

Ishaan Agarwal

Design and Validation of a Temperature-Robust Power Board for Small-Satellite Sensor Readouts

Brian Walsh (ENG, Mechanical Engineering)

Ben Bethune

Nose Job: An automated platform for conversion of facial CT scans to 3D-printable nasal cavity models.

Shabnam Raayai (ENG, Mechanical Engineering)

Annabella Calle

Unleashing the potential of 40 Hz visual stimulation as a stroke therapy in mice

David Boas (ENG, Biomedical Engineering, Electrical & Computer Engineering)

Gianpaolo Castro

Recapitulating the Loss of TGF- β Mechanobiological Chondroprotection with Degeneration and Injury: An ex-vivo Approach

Michael Albro (ENG, Mechanical Engineering)

Cheng Chen

Characterizing MS2 CRISPR Activation Systems for VLP-Based Delivery Systems

Samagya Banskota (ENG, Biomedical Engineering)

Allen Chen

High-efficiency Optical Coupling to Quantum Optical Devices

David Lake (ENG, Electrical & Computer Engineering)

Santino Gohu

Modeling Snap Through Behavior in Kirigami Structures Using the Arc Length Method

Douglas Holmes (ENG, Electrical & Computer Engineering)

Mikayla Grymes

Biologically Inspired Materials for Improving Blast, Shock, and Impact Response

J. Gregory McDaniel (ENG, Mechanical Engineering)

Joel Gutierrez Wirtz

Self-Aware 3D-Printed Structures: Mitigating FEA Simulation Gaps and Mass-Loading Artifacts via Embedded Conformal PVDF Sensors

Pavan Bhavsar (ENG, Mechanical Engineering)

Benny Heath

Photoacoustic neuromodulation via gold nanorods for treatment of retinal degeneration through a non-invasive delivery.

Chen Yang (ENG, Electrical & Computer Engineering, Materials Science & Engineering)

Haoxin Huang

Enhancing Spatial Precision and Reproducibility of Photoacoustic Neural Stimulation Through Diameter Optimization.

Chen Yang (ENG, Electrical & Computer Engineering)

Yixuan Huang

Area and Thermal Analysis of Monolithic 3D Hardware Accelerators for Transformer Models
Tali Moreshet (ENG, Electrical & Computer Engineering)

Luca Jadric

Investigating the Crosstalk Between Inflammatory and Fibrotic Signals Mediated by TGF- β in Synovial Fibrosis
Michael Albro (ENG, Mechanical Engineering)

Jonathan Jung

Soft Bronchoscopic Robot for Tissue Sampling in Lung Peripheries
Sheila Russo (ENG, Mechanical Engineering)

Musarat Khan

Longitudinal Functional and Postmortem Structural Analysis of Trisomy 21 Cortical Xenografts in a Human-Mouse Chimera Model
Martin Thunemann (ENG, Biomedical Engineering)

Haley Leung

Voltage Imaging of D2-SPNs during an aversive learning task.
Xue Han (ENG, Biomedical Engineering)

Mithun Makam

Optimization of an Activity-Based Digital Proximity Ligation Assay for Sensitive Profiling of Src Family Kinase Activity
Erica Pratt (ENG, Biomedical Engineering)

Rohit Mandapati

Physics-based Modeling of Dog Behavior for Robotic Applications
Eshed Ohn-Bar (ENG, Electrical & Computer Engineering)

Achuthan Menon

Extending ML-Based Demand Response for AI Data Centers with GPU Workloads and Real-World Traces
Ayse Coskun (ENG, Electrical & Computer Engineering)

Noah Orellana

Development of an Ultrafast Fiber Laser in the 1.7-1.84 μm Range for Three-Photon Microscopy Applications
Michelle Sander (ENG, Electrical & Computer Engineering)

Aneesa Diya Pathiyaparambath

Quantitative Multimodal Data Quality Profiling for Mobile Cognitive Neuroscience Experiments
David Boas (ENG, Biomedical Engineering)

Avani Rebbi

Compliant pressure sensor for an underwater soft robotic platform to enable non-invasive seabed locomotion

Tommaso Ranzani (ENG, Mechanical Engineering)

Rohan Sarkar

Evaluating Physical Antibody Adsorption for PD-L1-Targeted NU-1000 Metal-Organic Framework Delivery

Michelle Teplensky (ENG, Biomedical Engineering)

Michael Song

Development and implementation of a modular multi-channel extruder control system for multimaterial direct ink 4D printing.

William Boley (ENG, Mechanical Engineering)

Yosphat Srithanasakulchai

Engineering a Toolkit of Light-Controllable Recombinases in Escherichia coli to allow Complex Programmable Genetic Control

Mary Dunlop (ENG, Biomedical Engineering)

Aryana Srivastava

Young Tendon Adaptive Response to Simultaneous Compressive and Cyclic Stretching

Brianne Connizzo (ENG, Biomedical Engineering)

Reka Sundem

Modelling Shock-Droplet Interactions to Inform Hypersonic Vehicle Design

Sheryl Grace (ENG, Mechanical Engineering)

Tatum Swanwick

Origami-Inspired Bistable Metamaterials as Mechanical Ising Systems

Abigail Plummer (ENG, Mechanical Engineering)

Tony Tong

Hydrogel Fracturing

Abigail Plummer (ENG, Materials Science & Engineering)

Kevin Wang

A 3D 'skin'-on-chip microtissue model for investigating fibroblast-epithelial interactions and re-epithelialization dynamics in wound healing

Jeroen Eyckmans (ENG, Biomedical Engineering)

Glenn Weil

Non-Invasive Fabrication Monitoring in Silicon Photonics Using a Compact Photonic Integrated Circuit

Milos Popovic (ENG, Electrical & Computer Engineering)

Charlie Westwood

MinPriv: Minimizing Available Capabilities to Maximize System Security

Manuel Egele (ENG, Electrical & Computer Engineering)

Chobanian & Avedisian School of Medicine

Devika Aggarwal

Identifying genes correlated with dendritic arbor characteristics in AD vulnerable neurons of entorhinal cortex

Jean-Pierre Roussarie (MED, Anatomy & Neurobiology)

Zyna Azim

Narrative Medicine and Patient Experience with Juvenile Open Angle Glaucoma

Manishi Desai (MED, Ophthalmology & Vision Sciences)

Defrim Berisha

Associations Between Psychosocial Stress, Physiological Stress, and Hippocampal Activity in Black Emerging Adults

Karin Schon (MED, Anatomy & Neurobiology)

Shreya Bhatt

Emotional Distraction and Sustained Attention in Healthy Aging: Comparisons with Parkinson's Disease

Michael Esterman (MED, Psychiatry)

Quinn Binaxas

Analysis of Chronic Opioid Exposure on Golgi Morphology and Function; Insights into Mu-Opioid Receptor Signaling

Venetia Zachariou (MED, Pharmacology, Physiology & Biophysics)

Sojung Bok

Synonymous mutations and Parkinson's disease

Benjamin Wolozin (MED, Anatomy & Neurobiology)

Grace Buckland

Modeling Lessel-Kreienkamp Syndrome in Zebrafish: Investigating the Impact of AGO2 Alpha-Helix 7 Mutations on Targeting Fidelity and Neurodevelopment

Daniel Cifuentes Buira (MED, Biochemistry & Cell Biology)

Marcelo Alberto Catalano Chapa

Epigenetic Regulation of Neural Lineage Commitment in Kabuki Syndrome

Maria de Los Angeles Serrano (MED, Medicine, Vascular Biology)

Natalia Centofanti

Investigating Axonal Degeneration in Charcot-Marie-Tooth Disease
Travis Rotterman (MED, Pharmacology, Physiology & Biophysics)

Isha Chauhan

Investigating Spatial Glycomic and Proteomic Profiling of Perineuronal Nets in Young and Aged Mouse Prefrontal Cortex using Mass Spectrometry.
Manveen Sethi (MED, Biochemistry & Cell Biology)

Chris Cho

Using Retinal Vascular Injury as a Biomarker for Early Alzheimer's Disease in ApoE4-Associated Inflammation
Wendy Qiu (MED, Pharmacology, Physiology & Biophysics)

Kyeongseo Choi

How "Bad Cholesterol" Sticks to Artery Tissue and Becomes More Harmful
Olga Gursky (MED, Pharmacology, Physiology & Biophysics)

Uyen Chu

Characterizing the transcription repertoire associated with ACKR1 venous EC emergence in fibrotic lung diseases
Giovanni Ligresti (MED, Medicine, Rheumatology)

Emily Dong

Evaluating the role of KLHDC7B during human coronavirus infection
Florian Douam (MED, Virology, Immunology & Microbiology)

Kate Eads

Effects of MAT2A upregulation on histone methylation
Philipp Mews (MED, Pharmacology, Physiology & Biophysics)

Julien Gonzalez-Palavicini

Expression of ADRA1A and ADRA1B in excitatory and inhibitory neurons in cortical layers of macaque dorsal premotor cortex
Michael Wallace (MED, Anatomy & Neurobiology)

Hannah Guo

Exploring Redox-Dependent Chromatin Rewiring in the Regulation of Transcriptional and Epigenomic Responses in Vascular Endothelial Cells Using Multi-Omics Data
Lei Hou (MED, Medicine, Biomedical Genetics)

Mary Harrelson

Role of Motor Cortex in Controlling Naturalistic Grasping Behavior
Chandramouli Chandrasekaran (MED, Anatomy & Neurobiology)

Chikako Hirakawa

Investigating IFN- γ Mediated Immune Activation in Epigenetically Primes Hair Follicles in Alopecia Areata

Andrey Sharov (MED, Dermatology)

Ryan Huang

Investigating the role of OMA1 in triple-negative breast cancer pathogenesis

Hui Feng (MED, Pharmacology, Physiology & Biophysics)

Sophia Izidoro

Investigating the effect of extracellular vesicle treatment on microglial debris clearance in a rhesus monkey model of cortical injury.

Tara Moore (MED, Anatomy & Neurobiology)

Sydney Katz

Mitochondrial Gene Expression Dynamics during Neuronal Stem Cell Differentiation

Stefan Isaac (MED, Biochemistry & Cell Biology)

Christophe Klein

Dissecting TOM–NUP Interactions at Mito-nuclear Contact Sites During Mitochondrial Stress

Valentina Perissi (MED, Biochemistry & Cell Biology)

Iva Knezevic

Modeling the In Vivo Effects of Chronic YAP/TAZ Activation in a Novel Murine Model

Xaralabos Varelas (MED, Biochemistry & Cell Biology)

Evangelina Kocsis

Assessing Candidate Compound Effect on Mutant Tropomyosin Activity through ATPase Assay

William Lehman (MED, Pharmacology, Physiology & Biophysics)

Joyce Lam

The Mid-Life Physical Activity and Later-Life Alzheimer's Disease Neuropathology Burden in the Framingham Heart Study

Rhoda Au (MED, Anatomy & Neurobiology)

Lily Le Roy

Beyond SGLT2: Uncovering Off-Target Mechanisms of the SGLT2 Inhibitors

Jin Wei (MED, Nephrology)

Katelyn Lenahan

Advancing Therapeutic Strategies for Sickle Cell Disease: Optimizing SR-18292 Oral Administration Dosage to Maximize Fetal Hemoglobin Induction

Shuaiying Cui (MED, Hematology & Medical Oncology)

Yifan Li

Investigation of the presence of abnormal immune cells around the bile ducts preventing their conversion into hepatocytes in diseased livers

Valerie Gouon-Evans (MED, Medicine, Gastroenterology)

Ivy Lin

Determining the Role of Coagulation in Tissue Factor–Mediated Phenotypes Using Thrombin Inhibitors in Pneumococcal Pneumonia

Joseph Mizgerd (MED, Medicine, Virology, Immunology & Microbiology)

Megha Lomada

Mapping G protein signaling with subcellular resolution

Mikel Garcia-Marcos (MED, Biochemistry & Cell Biology)

Kathryn Maloney

Effects of Melanocortins on Induced Senescence in Retinal Pigment Epithelium Cells and Macrophages

Andrew Taylor (MED, Ophthalmology & Vision Sciences)

Cori Miller

Evaluating placental-derived soluble endothelial protein C receptor effects on fetal endothelial lung cells in preeclamptic pregnancies

Elizabeth Taglauer (MED, Pediatrics)

Hasher Mir

Defining the Mechanism of Microplastic-Induced Nuclear Genome Instability

Thomas Clarke (MED, Pathology & Laboratory Medicine)

Eshan Nair

Role of TFAM Acetylation in Mitochondrial DNA Binding and Mitochondrial Transcription Initiation

Stefan Isaac (MED, Biochemistry & Cell Biology)

Gianna Nalumansi

Characterizing the Role of Zinc Finger Protein, ZNF280D, in DNA Double-Strand Break Repair

Thomas Clarke (MED, Pathology & Laboratory Medicine)

Misha Nasarpuri

Impact of B-cell lymphoma/leukemia 11b (Bcl11b) on Craniofacial Morphology, and Cartilage Development

Laura Lowery (MED, Hematology & Medical Oncology)

Sabrina Nini

Examination of AQP4 polarization at astrocytic endfeet under acute LPS-Induced inflammation vs. Chronic stress-primed (CORT+LPS) conditions in Rats

Bang-bon Koo (MED, Anatomy & Neurobiology)

Leah Park

Massive Operative Resuscitation Evaluation of Blood (MORE Blood) Study: Clinical Outcomes and Multicentered Collaboration

Crisanto Torres (MED, Surgery)

Julian Phillips

Modeling miR-129-2-3p inhibition of MAPT mRNA in vitro

Christina Dimovasili (MED, Anatomy & Neurobiology)

Lauren Reilley

Texture encoding in motor cortices.

Chand Chandrasekaran (MED, Anatomy & Neurobiology)

Erica Roxas

When the Kidney Masks a Heart Attack: Renal Clearance of the Gold-Standard Biomarker of Myocardial Infarction

Jie Zhang (MED, Nephrology)

Samantha Seto

The Influence of Mindfulness Meditation on Memory and Emotions

Katherine Turk (MED, Neurology)

Purusha Shirvani

Vitamin D Receptor Pathway Analysis and Machine Learning Risk Stratification for Personalized Cancer Therapy Outcomes

Michael Holick (MED, Medicine, Endocrinology)

Shikhar Singh

Characterization of Endemic Coronavirus Evolution (OC43, 229E, NL63, and HKU1), Over the Course of Seasons, Years, and Within Individual Patients.

Manish Sagar (MED, Virology, Immunology & Microbiology)

Ben Spira

The role of Hippo-Yap signaling in basal cell regeneration after airway injury

Bob Varelas (MED, Biochemistry & Cell Biology)

Carly Stiller

Elucidation of the interplay among the interactions of human eIF3c and eIF2beta with eIF5 to gain insights into their roles during translation initiation.

Assen Marintchev (MED, Pharmacology, Physiology & Biophysics)

Emily Stonecipher

Impact of the 2023 CDC Perinatal Screening Recommendations

Rachel Epstein (MED, Medicine, Infectious Diseases)

Abgeya Taye

Examine macrophage number and subtype in a mouse model of chronic kidney Disease.
Weining Lu (MED, Nephrology)

Maria Velikhovskaya

Investigating the cGAS-STING Inflammatory Pathway in Idiopathic Pulmonary Fibrosis
Giovanni Ligresti (MED, Medicine, Rheumatology)

Sophie Yang

Maternal vs. Fetal APOL1 Genotype: Which Drives the Development of Preeclampsia?
Jin Wei (MED, Nephrology)

Zachary Zener

Endothelial vesicle trafficking mechanisms mediating uptake of nanoplastics from the bloodstream
Elliott Hagedorn (MED, Hematology & Medical Oncology)

Jimmy Zheng

Elucidating the Role of Sin3A Complex in Axon Regeneration
Daniel Taub (MED, Pharmacology, Physiology & Biophysics)

Sargent College of Health & Rehabilitation Sciences

Ananth Krishnan

The Effect of Acute Physiological Stress on Shelterin Complex Gene Expression in Aged Skeletal Muscle
LaDora Thompson (SAR, Health Sciences)

Divya Sivakumar

Connected Speech Production in Spanish-English Bilinguals with Post-Stroke Aphasia and Primary Progressive Aphasia
Swathi Kiran (SAR, Neurorehabilitation, Speech, Language, & Hearing Sciences)

Emma Dela Cruz

Examining Domain-Specific Cognitive Changes in Participants in the Hopeful and Healthy Living (HHL) Program: A Secondary Data Analysis
Kim Mueser (SAR, Occupational Therapy)

Haedyn Darling Hill

Understanding the Relationship Between Inter-Limb Hip Asymmetry and Pain in Female Athletes
Cara Lewis (SAR, Physical Therapy)

Sih-Syuan Li

Caregiver Responsiveness to Infant Cues: A Comparative Study of Infants with Down Syndrome and Typical Development

Jana M. Iverson (SAR, Physical Therapy)

Utkarsh Seth

Individualized Tuning of Longitudinal Bending Stiffness to Augment Propulsion and Energetics During Gait in Healthy and Post-Stroke Populations

Lou Awad (SAR, Physical Therapy)

Christie Lee

Characterizing Individual Differences in Speech Motor Science Using the SimpleDIVA Model

Jason Tourville (SAR, Speech, Language & Hearing Sciences)

Alexa Scolaro

Regional differences in cortical surface area in children and adults with developmental language disorder

Tyler Perrachione (SAR, Speech, Language & Hearing Sciences)

Hetavii Shah

Examining Laryngeal Kinematics in Parkinson's Disease: The Role of Motor Phenotype

Cara Stepp (SAR, Speech, Language & Hearing Sciences)

Justina Wang

Combining Social and Statistical Information in Children's Word Learning

Kimberly Crespo (SAR, Speech, Language & Hearing Sciences)

Adriana Cruz

Prosodic Variability In Narrative Speech Among Autistic and Typically Developing Children

Jennifer Zuk (SAR, Speech, Language & Hearing Sciences)

School of Public Health

Kayla Portillo

Exploring Indoor PM2.5 Exposures from Gas Stoves and Induction Stoves

Jonathan Levy (SPH, Environmental Health)

Lucy Schwartz

Examining the Cardiovascular Toxicity of Pyrethroid Insecticides Using In Vivo and In Vitro Mice Models

Jennifer Schlezinger (SPH, Environmental Health)

Samuel Kinch

Early Mechanism Change as an Incremental Predictor of Treatment Response Beyond Symptoms

Anthony Rosellini (SPH, Epidemiology)

Yannis Chen

A Comparison of Diagnostic Patterns and Healthcare Delivery in Rural and Urban Malawi

Clarissa Valim (SPH, Global Health)