



THE 29TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Friday, October 16, 2026
10 am - 2 pm
GSU Metcalf Ballroom



Boston University Undergraduate Affairs
Undergraduate Research Opportunities Program

WELCOME TO BOSTON UNIVERSITY'S 29TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM!

We're thrilled to host you for this inspiring celebration of curiosity, innovation, and excellence. Today, we spotlight some of BU's brightest undergraduate minds and the dedicated faculty mentors who guide and support them in their research journeys.

This event highlights the impact of the **Undergraduate Research Opportunities Program (UROP)**, which helps students dive into groundbreaking, faculty-mentored research across every discipline at BU. From the arts to engineering, biology to international relations, if there's a question worth asking, our students are exploring it.

Let's celebrate the incredible work being done by these talented and dedicated student researchers. Enjoy and be inspired!

Phil Haberkern, Faculty Director, UROP

Melissa Johnson, Director, UROP

Molly Powers, Assistant Director, UROP

ACKNOWLEDGEMENTS

UROP is primarily supported by BU's Office of the Provost. We thank our Faculty Advisory Committee for their efforts in reviewing applications and supporting UROP in our mission. We also thank our students; we are inspired by your curiosity and commitment to discovery! Finally, we thank our faculty mentors for providing impactful learning environments for BU undergraduates, thus making UROP possible.



29TH ANNUAL

Undergraduate Research Symposium

Friday, October 16, 2026 | 10am - 2pm
Boston University, Metcalf Ballroom

SCHEDULE OF EVENTS

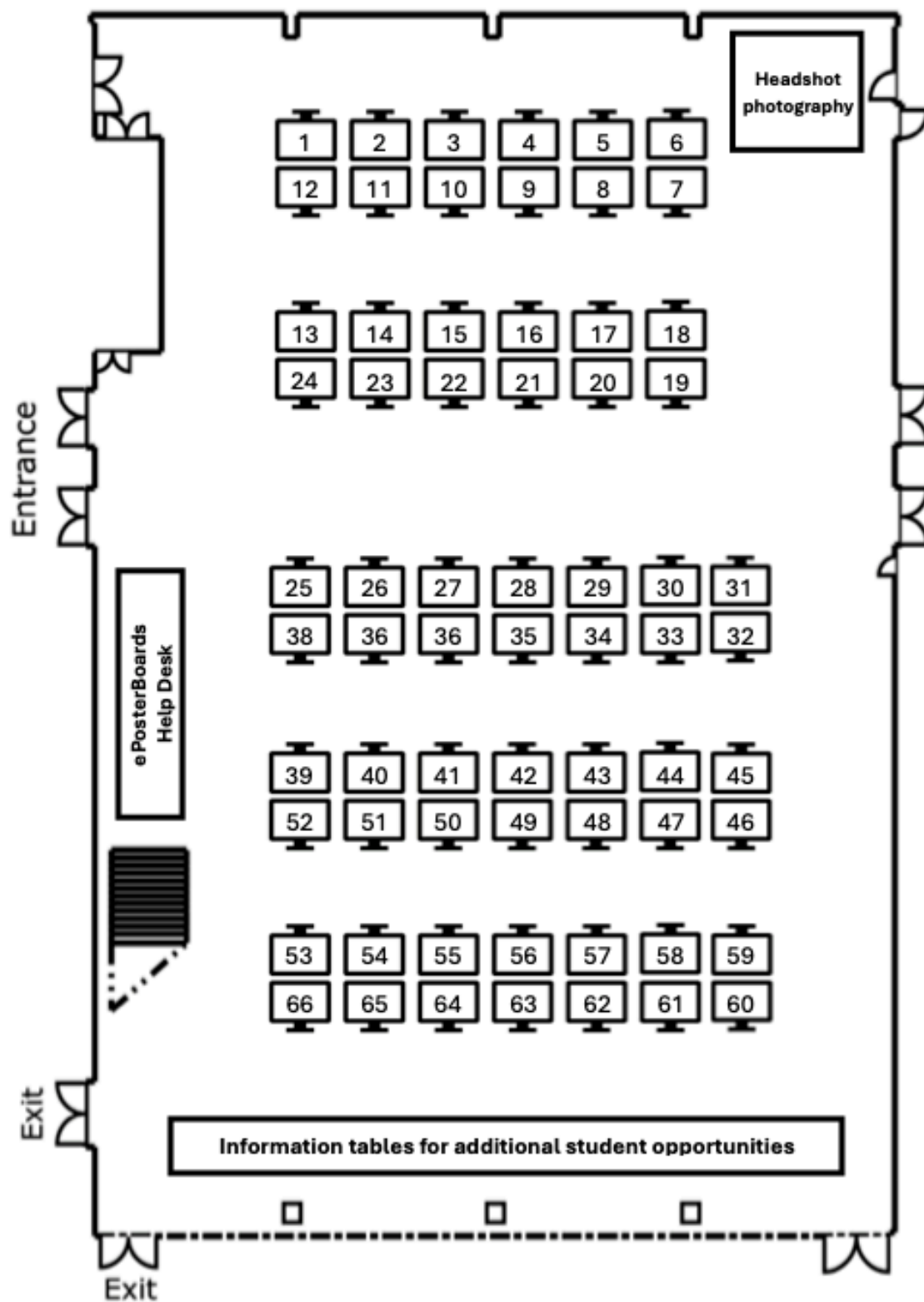
10 AM		Opening remarks
10 - 10:45 AM		Session 1 Presenters
10:45 - 11 AM		Transition
11 - 11:45 AM		Session 2 Presenters
11:45AM - 12PM		Transition
12 - 12:45PM		Session 3 Presenters
12:45 - 1PM		Transition
1 - 1:45PM		Session 4 Presenters

Additional thanks to our generous financial sponsors!

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EVENT MAP

GSU METCALF BALLROOM



SESSION 1 — 10 – 10:45AM**Deqa Abdi**

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

Faculty Mentor: Jake Nash

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Mikael Aznauryan

Linear Characterization and Finite-Element Validation of a Piezoelectric AlN Micromechanical Resonator

Faculty Mentor: Raj Mohanty

Poster Number: 32

Tamerlan Baimurat

Cost & Performance Trade-offs in AI-Based Medical Note Error Detection

Faculty Mentor: Anita Carson

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Alexander Balsera

Dynamical Phase Transitions in the Classical Transverse Field Ising Model

Faculty Mentor: Anatoli Polkovnikov

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Grace Barron

Émilie Du Chatelet's Metaphysical Origins of Time

Faculty Mentor: Miguel Ohnesorge

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Alan Bernstein

Synthetic Studies Toward Pyrimidine-Substituted Analogues of Aglaroxin C

Faculty Mentor: John Porco

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Ben Bethune

An Automated Platform for Conversion of Facial CT Scans to 3D Printable Nasal Cavity Models

Faculty Mentor: Shabnam Raayai

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Quinn Binaxas

Studies of Intracellular Actions Following Chronic Treatment with Clinically Used Opioid Analgesics

Faculty Mentor: Venetia Zachariou

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SESSION 1 — 10 – 10:45AM**Sojung Bok**

Synonymous mutations in Parkinson's disease

Faculty Mentor: Benjamin Wolozin

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Abraham Borst

Defining the Effects of Rocaglaol on Inflammatory Microglia Using Mass Spectrometry-Based Multiomics

Faculty Mentor: Melissa Pergande

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Colin Burns

BONCAT Microscopic Analysis of Microbes Derived from Icelandic Volcanic Basalt

Faculty Mentor: Jeffrey Marlow

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Marcelo Alberto Catalano Chapa

KMT2D Reduction Reveals Heterogeneous Histone Post-Translational Modification States in Neural Progenitor Cells.

Faculty Mentor: Maria de los Angeles Serrano

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Natalia Centofanti

Investigating Central Sensory Axonal Degeneration in a Preclinical Model of Charcot-Marie-Tooth Disease

Faculty Mentor: Travis Rotterman

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Juijung Chen

Mapping Salt Marsh Vegetation Change and Marsh Degredation in the Saxis Region of the Virginia Coastal Reserve

Faculty Mentor: Sergio Fagherazzi

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Kyeongseo Choi

Binding of human low-density lipoproteins to type-I collagen is synergistic with the pro-atherogenic lipoprotein remodeling

Faculty Mentor: Olga Gursky

Poster Number: 44

Aiden Dion

Screening Splicing Collaborators of EBNA1-Mediated MBP Exon 2 Splicing

Faculty Mentor: Renata Serio

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SESSION 1 — 10 – 10:45AM**Kate Eads**

Testing whether local MAT2A recruitment regulates Arc gene expression

Faculty Mentor: Philipp Mews

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Rose Fas

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

Faculty Mentor: Kim McCall

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Shannon Ganoë

Investigating the role of ATR1 upstream ORF in regulating glucosinolate gene expression in Arabidopsis thaliana

Faculty Mentor: John Celenza

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Mikayla Grymes

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

Faculty Mentor: J. Gregory McDaniel

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Albina Han

Pyridopyrimidinone Inhibitors of RNA Dependent RNA Polymerase

Faculty Mentor: Albina Han

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Benjamin Heath

Non-invasive Retina stimulation with eyedrop delivered Photoacoustic nanoparticle

Faculty Mentor: Chen Yang

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Chikako Hirakawa

Investigating Transposable Element-Induced Innate Immune Responses in Alopecia Areata

Faculty Mentor: Andrei Sharov

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Siddhi Padmanabhan Iyer

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

Faculty Mentor: Patricia Cortes

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SESSION 1 — 10 – 10:45AM**Luca Jadric**

Soluble TGF- β Receptor Antagonists for Arthrofibrosis Treatment

Faculty Mentor: Michael Albro

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Matthew Jung

Biological validation of a novel transverse mouse brain matrix

Faculty Mentor: Tuan Leng Tay

Poster Number: 15

Sydney Katz

Mitochondrial Gene Expression Dynamics during Neuronal Stem Cell Differentiation

Faculty Mentor: Stefan Isaac

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Gus Kim

All The World's A Stage: Mapping the Director/Designer Relationship in Western Theatre

Faculty Mentor: Jon Savage

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Esther Kim

Real or not real? Analyzing parent-child conversations about AI-generated faces

Faculty Mentor: Kathleen Corriveau

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Samuel Kinch

Cognitive-behavioral processes as incremental predictors of anxiety treatment outcome beyond symptoms across early treatment

Faculty Mentor: Anthony Rosellini

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Christophe Klein

Investigating TOMM70 -RanBP2 interactions at Mito-Nuclear contact sites during Mitochondrial stress

Faculty Mentor: Valentina Perissi

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Joyce Lam

Associations between Physical Activity, Cognitive Function, and Ptau217

Faculty Mentor: Rhoda Au

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SESSION 1 — 10 – 10:45AM**Mary Lareau**

Effect of ketamine on AMPA receptor expression in NEXMIF syndrome

Faculty Mentor: Hengye Man

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Katelyn Lenahan

Preclinical Validation of SR-18292-Mediated Fetal Hemoglobin Induction in a Mouse Model

Faculty Mentor: Cui Shuaiying

Poster Number: 19

Chase McCray

Policing the Classroom: Teacher Perspectives on School Security

Faculty Mentor: Spencer Piston

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Achuthan Menon

Learning-Based Optimization for Data Center Demand-Response Bidding

Faculty Mentor: Ayse Coskun

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Cori Miller

Identifying the impact of human placental decoy receptor signaling on lung endothelial cell development in preeclampsia

Faculty Mentor: Elizabeth Taglauer

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Olivia Mills

Administering the Unclaimed Dead: A Genealogy of Poverty, Procedure, and Post-Mortem Marginalization in Massachusetts 1701-2025

Faculty Mentor: Andreanna Cunningham

Poster Number: 63

Mason Murchison

*Investigating the effect of parental environment on larval morphology in *Amphirion percula**

Faculty Mentor: Peter Buston

Poster Number: 20

Katherine Nakai

*Novel Shadow Enhancer Constructs Test Limitations of Single Enhancer Gene Regulation in *Drosophila melanogaster*.*

Faculty Mentor: Zeba Wunderlich

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SESSION 1 — 10 – 10:45AM

Gianna Nalumansi

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

Faculty Mentor: Thomas Clarke

Poster Number: 48

Misha Nasarpuri

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

Faculty Mentor: Laura Anne Lowery

Poster Number: 49

Alexia Nastasia

How Two Cities in International Settings Strive to Increase Urban Resilience and Foster More Livable Environments: Lessons Learned from Saint Louis, Mi

Faculty Mentor: Jeremy Menchik

Poster Number: 64

Layla Nguyen

Investigating the Role of Clasp2 in Oligodendrocyte Maturation and Lineage Composition

Faculty Mentor: Angela Ho

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Tahalia Nira

The Architecture of Denial: From Adolf Eichmann to Rwanda, How Genocide Perpetrators Explain and Deny their Crimes.

Faculty Mentor: Phillip Haberkern

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Khushi Patel

A Computational Model Probing the Effect of Atypical Receptive Field Sizes on Global and Second-Order Motion Detection in Autism Spectrum Disorder

Faculty Mentor: Arash Yazdanbakhsh

Poster Number: 31

Julian Phillips

Modeling miR-129 inhibition of MAPT and RBFOX1 mRNA in vitro

Faculty Mentor: Christina Dimovasili

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SESSION 1 — 10 – 10:45AM**Alden Pixley**

The Key Enzyme in Fructose Metabolism: Human Kethexokinase-C Utilizes Acid-Base Catalysis In Its Mechanism

Faculty Mentor: Dean Tolan

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Avani Rebbi

Optical-based Soft Force Sensor

Faculty Mentor: Tommaso Ranzani

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Esther Rene

Testing the Front End Electronics for the MIP Timing Detector's Endcap Timing Layer

Faculty Mentor: Indara Suarez

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Iskander Rzaev

Synthesis, characterization, and reactivity of Ti(IV)-oxo, -peroxo, and proposed -superoxo complexes with perfluoropinacolate ligands.

Faculty Mentor: Linda Doerrer

Poster Number: 56

Mia Sandfort

Characterizing the Role of Reelin in Learning and Memory

Faculty Mentor: Uwe Beffert

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Emma Santos

Pks2 is Required for Normal Skeletal Patterning in Sea Urchin Larvae

Faculty Mentor: Cynthia Bradham

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Rohan Sarkar

DNA Nanostructure Delivery Platform for Improved cGAS-STING Activation in Cancer Immunotherapy

Faculty Mentor: Michelle Teplensky

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Samantha Seto

Preliminary Findings of the Effects of Mindfulness Meditation on Recalled Autobiographical Memory

Faculty Mentor: Katherine Turk

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SESSION 1 — 10 – 10:45AM**Aditi Sharma**

Altering Memory Through Wakeful Reactivation and Hippocampal Network Stimulation

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Shikhar Singh

Exploring Evolutionary Pressures in Endemic Coronaviruses Across Seasons and Years

Faculty Mentor: Manish Sagar

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Emily Stonecipher

Impact of the 2023 CDC Hepatitis C Perinatal Screening Recommendations: An Interrupted Time Series Analysis

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Ada Sussman

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Faculty Mentor: Jessica Simes

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Tatum Swanwick

Bistable Metamaterials as Physical Ising Models

Faculty Mentor: Abigail Plummer

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Abgeya Taye

Role of the SLIT/ROBO Pathway in Macrophage Biology in a Mouse Model of Chronic Kidney Disease

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Leihui Tong

Dynamic Fracturing in Swelling Hydrogels

Faculty Mentor: Abigail Plummer

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Maria Velikhovskaya

Investigating the role of the cGAS-STING Pathway in Idiopathic Pulmonary Fibrosis

Faculty Mentor: Ligresti Giovanni

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SESSION 1 — 10 – 10:45AM**Justina Wang**

How Speaker Eye Gaze Shapes Children's Cross-Situational Word Learning

Faculty Mentor: Kimberly Crespo

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Anna Winter

Parental Environment and the Genetic Basis of Dispersal Plasticity in Clown Anemonefish

Faculty Mentor: Sarah Davies

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XiaoAn Wu

Fc-Mediated Electrochemical Tsuji-Wacker Oxidation at Low-Voltage

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Christine Amalraj

Social Emotional Learning's early impact on Academic Wellbeing

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Amelia Andre

The Effect of Offline Cognitive Processing on Online Reading Behavior in Post-Stroke Aphasia

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Surabhi Bhaskar

Determining the longevity of tools to chronically activate safety engrams in adolescent mice

Faculty Mentor: Heidi Meyer

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Allen Chen

High-efficiency Optical Coupling to Quantum Optical Devices

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Yannis Chen

A Comparison of Pediatric Antibiotic Prescribing and Diagnostic Patterns in Malawi and the United States

Faculty Mentor: Clarissa Valim

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Isabella Cruz

Effect of Parental Environment on Behavioral Phenotypes of Larval Amphiprion percula

Faculty Mentor: Peter Buston

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Ngoc Dang

Realization of Ultra-High-Temperature Ceramic Transition-Metal Boride Thin Films via Chemical Vapor Deposition

Faculty Mentor: Xi Ling

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Naisha Deorah

From Structure to Specificity: Engineering KSDH2 for Cortisol Detection

Faculty Mentor: Karen Allen

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Structure-guided discovery of ancestral gag polyprotein for improving engineered virus-like particle assembly and prime editing cargo delivery.

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Cagla Alev Egilmez

Understanding The Contributions of Image Features to Curiosity-Driven Behavior and Aesthetic Choice

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Hattie Fair

Until You're All Alone: Analyzing Addiction Treatment Through the Platonic Understanding of Love

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Adam Godel

Medusa: Closing the Data Alignment Gap in Secure Analytics with Private Edit Distance

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Santino Giancarlo Gohu

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James Gonzalez Inocente

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Jungjae Lee

NewTen: Friction-Aware Tendon Transmission for GPU-Accelerated Dexterous Hand Simulation

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Hannah Guo

Exploring Redox-Dependent Epigenomic Regulation of Vascular Endothelial Stress Responses with Multi-Omics Approach

Faculty Mentor: Lei Hou

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Joel Gutierrez Wirtz

Embedding PVDF Film Sensors in 3D-Printed Parts for Vibration Measurement

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Yixuan Huang

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Evangelina Kocsis

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Johana Larti

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Jenna Le

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Sophie Li

Examining Effects of Vocal Effort on Vowel Formant Dispersion in Typical Speakers

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Ivy Lin

Defining the role of coagulation cascade on pneumococcal pneumonia pathology

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Sophia Livingston

The Effects of Cardiovascular Kidney Metabolic Syndrome Milieu on Skin Wound Healing

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Lyndsay Lynch

From Hearing to Explaining: How Children Reproduce Explanatory Structure

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Mithun Makam

Optimizing a Proximity Ligation Assay for Quantitative Src Family Kinase Activity Profiling

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Kathryn Maloney

Effects of Melanocortins on SIO-Induced Senescence in Retinal Pigment Epithelium Cells

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Ava McClatchie

Single Molecule Measurements Reveal Reversed Conductance Trends in Fluorenyl Radical Nanowires

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Arnab Misra

DGAT1/2 Inhibition Attenuates Lipid Droplet Accumulation and Lysosomal Dysfunction in ABCA7-Deficient Human iPSC-Derived Microglia

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Anthony Mosca

Beyond the Environment: ACE Exposure and It's Impact on School Functioning

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Annika Nanda

Automated Quantum Circuit Symmetrisation into QuASK (Quantum Advantage Seeker with Kernels)

Faculty Mentor: Zeynap Demiragli

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Ethan Ngo

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Faculty Mentor: Alexis Courtney

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Mika Or-Barkan

Autistic Children's Focused Interests in the Social World: Gender Differences in Parent Perspectives

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Priyanshi Panchal

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Jonathan Park

Characterizing Microglial Phagolysosomal Activity in the APP NL-G-F Mouse Model of Alzheimer's Disease

Faculty Mentor: Tuan Leng Tay

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Vikram Puar

Measurement of brain tissue oxygenation during different brain states in mice using 2-Photon Phosphorescence Lifetime Microscopy

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Bryce Christian Quintos

α -MSH Protects Macrophages Against Oxidative Stress-Induced Senescence

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Lauren Reilley

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Gavin Rohrer

Nested Permissions for Disjointness Reasoning

Faculty Mentor: Ankush Das

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Erica Roxas

The Aging Kidney Recruits SGLT1 Reserve Capacity to Maintain Glucose Conservation

Faculty Mentor: Jie Zhang

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Time-Varying Association Between Severe Vitamin D Deficiency and Cancer Mortality: A Survival and Machine-Learning Analysis

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Swas Shiv

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Nicole Yan Ying Sim

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Carly Stiller

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Tania Torres Martinez

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Felix Tuchscherer

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Faculty Mentor: Diane Joseph-McCarthy

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Ece Ucari

Design and Calibration of TOF-PET Detector Prototypes

Faculty Mentor: Zeynep Demiragli

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SESSION 2 — 11 - 11:45AM**Nithya Vuppalapati**

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

Faculty Mentor: Jerry Chen

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Arush Vyas

Automated Discovery of Vascular Biomarkers in Neurodegenerative Diseases Using Deep Learning and Attention-Based Analysis

Faculty Mentor: Lei Tian

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Michael Wakeham

BabyVLM-V2: Toward Developmentally Grounded Pretraining and Benchmarking of Vision Foundation Models

Faculty Mentor: Boqing Gong

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Kailey Wilkinson

*Investigating the role of CKAP5 in neural crest cell migration and cytoskeletal development of craniofacial structures in *X. laevis*.*

Faculty Mentor: Laura Lowery

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Fox Williams

Chaos in quasiperiodic driving

Faculty Mentor: Anushya Chandran

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Sylvia Wu

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Faculty Mentor: Matthew Waldor

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Jessica Wu

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Faculty Mentor: Saida Grundy

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Artemiy Yakushin

Asymmetric Allylboration of Aldehydes Using a Metal-Free Organic Catalyst System

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Sophie Yang

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Oguz Yildirim

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Emma Cate Yungwirth

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Karim Zantout

The Function of the BCL11B gene on the Embryonic Heart Development in Xenopus laevis

Faculty Mentor: Laura Anne Lowery

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Florencia Zarate Rodriguez

Peripheral Vision Abilities in Deaf and Hearing Adults

Faculty Mentor: Erin Campbell

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Zach Zener

Endothelial vesicle trafficking mechanisms mediating uptake of nanoplastics from the bloodstream

Faculty Mentor: Elliott Hagedorn

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Claire Zhang

The impact of severe drought on body condition and reproductive maturation in wild South African vervet monkeys (Chlorocebus pygerythrus pygerythrus)

Faculty Mentor: Christopher Schmitt

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SESSION 2 — 11 - 11:45AM

Jimmy Zheng

Distinct Effects of Sin3a Deficiency on Axon Development and Regeneration

Faculty Mentor: Daniel Taub

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Ellen Zheng

An Implementation of Vision-Based Haptic Navigation

Faculty Mentor: Roberto Tron

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COSSMo Flight Calibration: Correcting Thermal Drift and Off-Axis response in a CubeSat Solar Irradiance Monitor

Faculty Mentor: Brian Walsh

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Oluwatofe Akinyanmi

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

Faculty Mentor: Anthony Yacovone

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Beren Akpinar

Frequency Band and Cortical Depth Contributions to Working Memory-Based Abstract Perceptual Decisions in Macaque Prefrontal Cortex

Faculty Mentor: Chandramouli Chandrasekaran

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Hope Ayim

Clonal Analysis of Microglial Colonization in Neonatal Mouse Cortex and Hippocampus

Faculty Mentor: Tuan Leng Tay

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Karim Aziz

Group-Theoretic Identities in Supersymmetric Gauge Theory

Faculty Mentor: Zeynep Demigrali

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Paul Bae

Characterizing Laugarkambur vent field: a newly discovered shallow alkaline hydrothermal vent

Faculty Mentor: Jeffrey Marlow

Poster Number: 8

Defrim Berisha

Chronic Racialized Adversity Is Associated With Reduced Biomarkers of Brain Health and Function in Black Emerging Adults

Faculty Mentor: Karin Schon

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Madeline Bodor

Understanding oxidase versus dehydrogenase reactivity through NicA2 mutagenesis

Faculty Mentor: Karen Allen

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SESSION 3 — 12 - 12:45PM**Maya Butkevich**

Exploring the Dissimilarity of Belizean and Honduras Benthos and Fish Community Composition

Faculty Mentor: Leslie Kaufman

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Gianpaolo Castro

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

Faculty Mentor: Michael Albro

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Enoch Chang

Fabrication and Comparison of ligand-decorated polymeric lipid nanospheres and nanorods

Faculty Mentor: Bjoern Reinhard

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Kavya Chaturvedi

Investigating How the Schizophrenia-Associated Gene M6 Alters Synapses

Faculty Mentor: Kim McCall

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Isha Chauhan

Investigating Spatial Glycomic and Proteomic Profiling of Perineuronal Nets in Young and Aged Mouse Prefrontal Cortex using Mass Spectrometry.

Faculty Mentor: Manveen Sethi

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Charlotte Cheung

Fueling the Late Acceleration: U.S.-China Energy Cooperation during the Late Cold War (1978-1992)

Faculty Mentor: Benjamin Goossen

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Elise Chick

Sex Specific Stability and Metabolic Performance of Corals

Faculty Mentor: Sarah Davies

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Andrew Cho

Acoustic Monitoring of Threatened Primates in Indonesia Using BirdNET Machine Learning

Faculty Mentor: Cheryl Knott

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SESSION 3 — 12 – 12:45PM**Allison Cinelli**

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

Faculty Mentor: Karina Scavo Lord

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Beckett Coffman

Energy Transfer from β -Carotene to Chlorophyll a under Strong Light-Matter Coupling

Faculty Mentor: Minjung Son

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Kien Dang

Emotion Regulation Modulates the Link Between Brain Structure and Disruptive Behavior Problems in Youth

Faculty Mentor: Karim Ibrahim

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Thai Daniel

From Hindrance to Opportunity: Cultural Influences on Parent Perceptions of Focused Interests in Autistic Children

Faculty Mentor: Kristin Long

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Emily Dong

Evaluating the role of KLHDC7B during human coronavirus infection

Faculty Mentor: Florian Douam

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Evangeline Emgushov

Function of RUNX1, LMO2, and LDB1 in Acute Myeloid Leukemia

Faculty Mentor: Chelsey Chen

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Jiafei Fan

Toward Efficient LLM Workloads and an Event-Driven GPU Operating System

Faculty Mentor: Jonathan Appavoo

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Matteo Finnerty

*Using Airborne eDNA to Remotely Detect the Critically Endangered Yellow-Tailed Woolly Monkey (*Lagothrix flavicauda*) in the Peruvian Andes*

Faculty Mentor: Christopher Schmitt

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SESSION 3 — 12 - 12:45PM

Julien Gonzalez-Palavicini

Laminar organization and cell-type specific expression of ADRA1A in macaque dorsal premotor cortex

Faculty Mentor: Michael Wallace

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Jessica Gusmao

Returning "Home?" Migration, Identity, and Belonging in Governador Valadares

Faculty Mentor: Rachel Nolan

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Grace Halepis

From Rhetoric to Reason: Analyzing Al-Qaeda's Systemic Cohesion Post October 7th

Faculty Mentor: Margaret Litvin

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Logan Hiller

Species Identification of Caribbean Sea Sponges via Microscopic Spicule and Genetic Barcoding Analysis

Faculty Mentor: Karina Scavo-Lord

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Haoxin Huang

Investigate novel nano-scale photoacoustic contrast agents as better absorbers than MWCNT and CB under non-combustible procedure

Faculty Mentor: Chen Yang

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Sophia Izidoro

Effect of sex and vesicle treatment on microglial phagocytic marker expression after brain cortical injury in rhesus monkeys

Faculty Mentor: Tara Moore

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Princess Jain

Modeling the Effects of National Satisfaction on Geopolitical Conflict

Faculty Mentor: Patrick Keys

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Breckan Johnston

Problems Concerning the Varying Identity Conditions of Rigid Designation

Faculty Mentor: Michaela McSweeney

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SESSION 3 — 12 - 12:45PM

Jonathan Jung

Soft Bronchoscopic Robot for Tissue Sampling in Lung Peripheries

Faculty Mentor: Sheila Russo

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Musarat Khan

Quantitative Analysis of Superficial Cortical Neurons in an iPSC-Derived Model of Down Syndrome

Faculty Mentor: Martin Thunemann

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Matthew Kim

Climate-Anchored Prediction of Crop Planting and Harvest Timing

Faculty Mentor: Michael Dietze

Poster Number: 23

Iva Knezevic

Understanding Bronchial Basal Cell Dysregulation in Lung Squamous Cell Carcinoma Progression

Faculty Mentor: Xaralabos Varelas

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Christian Kohnle

Faster, More Accurate Predictions of Cosmic Structure for Precision Galaxy Surveys

Faculty Mentor: Zeynep Demiragli

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Lily Le Roy

A New Paradigm for Gene-Environment Interactions in APOLI-Mediated Kidney Disease

Faculty Mentor: Jin Wei

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Christie Lee

Brain to Voice: Understanding Speech Motor Control through Acoustic Analysis

Faculty Mentor: Jason Tourville

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Hangyeol Lee

Leveraged Buyouts and Capital Structure in U.S. Hospitals

Faculty Mentor: Fatema Fazendeiro

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SESSION 3 — 12 - 12:45PM

Yifan Li

Characterizing Immune Cell Recruitment Around Biliary Epithelial Cells in the PIZ model of Liver Injury in mice

Faculty Mentor: Valerie Gouon-Evans

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Hasher Mir

Microplastics as Potential Drivers of Colorectal Tumorigenesis

Faculty Mentor: Thomas Clarke

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Nana Okyere

*Expression and Purification of Protein Kinase B Ortholog (KN54) and PGT Ortholog (KN15) in *Nosocomiicoccus massiliensis**

Faculty Mentor: Karen Allen

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Seoyun Park

Modifiable Risk Factor for Excessive Intraoperative Crystalloid Administration in Severely Bleeding Trauma Patients

Faculty Mentor: Crisanto Torres

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Aneesa Diya Pathiyaparambath

Quantitative data quality assessment of wearable IMUs and gait adaptation in cognitive tasks

Faculty Mentor: David Boas

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Pratiush Regmi

CMS Muon Subsystem Data Acquisition Upgrade for HL-LHC

Faculty Mentor: Indara Suarez

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Riana Richani

"The Transnational Architecture of Trauma:" A Comparative Study of Childhood Narratives in Lebanese and Korean War Literature

Faculty Mentor: Margaret Litvin

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Meredith Rizzi

When Clinicians Edit AI: Understanding Documentation Errors in Primary Care

Faculty Mentor: Savannah Wang

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SESSION 3 — 12 – 12:45PM**Grace Roberts**

*Using CRISPR gene editing to mutate regulatory upstream ORFs in the plant *Arabidopsis thaliana**

Faculty Mentor: John Celenza

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Lina Santos

Mapping State Student Loan Forgiveness Programs and Policy Evolution, Targeting, and Labor-Market Outcomes

Faculty Mentor: Jerry Whitmore

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Rhea Sawhney

Debt vs Equity Financing Constraints and the Asymmetric Transmission of Monetary Policy: Evidence from U.S. Equity Markets

Faculty Mentor: Andrea Vedolin

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Julia Schultze

Documenting the Shoreline: Preserving Hampton Beach Through Modernization

Faculty Mentor: Amy Geller

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Alexa Sclaro

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

Faculty Mentor: Tyler Perrachione

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Xinran Song

Dopamine Dynamics Across Striatum in Freely Moving Mice

Faculty Mentor: Mark Howe

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Michael Song

Developing a Unified Toolhead Control System for Advanced Direct Ink Writing

Faculty Mentor: William Boley

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Benjamin Spira

Dissecting the Molecular and Cellular Processes of Tracheal Regeneration Following Injury

Faculty Mentor: Bob Varelas

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SESSION 3 — 12 - 12:45PM

Aryana Srivastava

Sex Differences in Exercise Frequency for Maintaining Tendon ECM Homeostasis

Faculty Mentor: Brianne Connizzo

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John Standing

Depressive Symptoms and Emotion as Context for Emotion Regulation: a Simulated Multilevel Power Analysis

Faculty Mentor: Qimin Liu

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Glenn Weil

Evaluating Fabrication Process Variations in Photonic Integrated Circuits

Faculty Mentor: Milos Popovic

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Charles Westwood

MinPriv: Mapping Syscalls to Linux-Capabilities for Privilege Minimization

Faculty Mentor: Manuel Egele

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Dominic Yu

Producing Success: Peer Support and Professional Growth at Music For Music

Faculty Mentor: Kinh Vŭ

Poster Number: 5

Gisella Zerlotti

How Do Young Children Perceive Voice-Based AI Helpers?

Faculty Mentor: Ola Ozernov-Palchik

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Jingxuan Zhang

Non-Equilibrium Ion Populations and Stochastic Fluctuations in a Spontaneous Hot Flow Anomaly

Faculty Mentor: Chuanfei Dong

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SESSION 4 — 1 - 1:45PM**Devika Aggarwal**

Correlating overexpression of Rbfox1, Spock1, and Nalfl to neuronal electrophysiological changes tied to Alzheimer's disease in the entorhinal cortex

Faculty Mentor: Jean-Pierre Roussarie

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Dareen Al Humaidi

Age Differences in the Role of Parvalbumin Interneurons During Fear and Safety Learning

Faculty Mentor: Beckett Blocker

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Rida Ali

Imran Khan: A Threat to the Pakistani Military Establishment

Faculty Mentor: Nasir Almasri

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Anglelo Amato

Benchmarking Visual Reasoning in Vision Language Models Through Same-Different Judgements on Data Visualizations

Faculty Mentor: Najoung Kim

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Felix Bagurskas Rubio

Sort Inference in Pure Type Systems

Faculty Mentor: Nathan Mull

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Kaivalya Bhatt

Examining the Per-Patient and Direct Medical Costs Associated With Outpatient Keloid and Hypertrophic Scar Management

Faculty Mentor: Ajay Sharma

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Shreya Bhatt

Emotional Distractions and Their Effects On Executive Functioning

Faculty Mentor: Michael Esterman

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Theodore Brink

The Geography of Race and Ethnicity in the United States: Uncovering a Hidden History of Expulsion and Exclusion

Faculty Mentor: Martin Fiszbein

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SESSION 4 — 1 - 1:45PM**Grace Buckland**

Accelerating Zebrafish Model Generation Using Germ Cell Induction Factors

Faculty Mentor: Daniel Cifuentes

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Annabella Calle

Multisensory 40 Hz stimulation enhances vascular oscillatory power after ischemic stroke

Faculty Mentor: David Boas

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Isabella Chan

Barriers Beyond Criminal Justice: College Application Advising Gaps and a Toolkit for Justice-Impacted Students

Faculty Mentor: William Rodriguez

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Rishin Chatterjee

Scripture Shaping Surgery: The Influence of Islam in Al-Andalus and Christianity in Medieval Europe on the Development of Medicine

Faculty Mentor: Phillip Haberkern

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Hsuan Cheng Chen

Optimization of MMLV-Derived Engineered Virus-Like Particles Through Gag Protein Truncation

Faculty Mentor: Samagya Banskota

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Chris Cho

ApoE2 Modulation of Astrocytic and Microglial responses to mCRP-Associated ApoE4 stress in Mouse Brain

Faculty Mentor: Wendy Qiu

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Uyen Chu

Investigating the Transcriptional Program of ACKR1+ Venous Endothelial Cells in Pulmonary Fibrosis Using Single-Cell RNA-sequencing.

Faculty Mentor: Giovanni Ligresit

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Nadav Cohen

Grounded: On the Limits of Urban Redistribution in American Cities

Faculty Mentor: Marcus Walton

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SESSION 4 — 1 - 1:45PM**Catalina Coleman**

Musical Influence on Civic Identity As Seen in Wartime Compositions

Faculty Mentor: James Johnson

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Adriana Cruz

Prosodic Variability In Naturalistic Speech Among Autistic and Typically Developing Children

Faculty Mentor: Jennifer Zuk

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Noah Darby

An EEG Study of Phonological Form-Based Prediction in a Naturalistic Storytime Paradigm

Faculty Mentor: Anthony Yacovone

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Rafaela Datel

The impact of psychological interventions on depressive symptoms for children and youth on the autism spectrum: a meta-analytic review

Faculty Mentor: Martha Tompson

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Emma Dela Cruz

Examining Domain-Specific Cognitive Changes in Participants in the Hopeful and Healthy Living (HHL) Program: A Secondary Data Analysis

Faculty Mentor: Kim Mueser

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Mary Dinh

Understanding the Facilitators, Motivations, and Barriers to Father's Attendance to a Healthy Lifestyle Program: Healthy Dads Healthy Kids- Hispanic

Faculty Mentor: Teresa O'Connor

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Diana Marie Gamboa

A closed-loop eye-behavior paradigm reveals residual visual processing in cortical blindness

Faculty Mentor: Sharif Kronemer

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Abhinav Ghosh

Galaxy Distribution in Clusters Selected by the redMaPPer Algorithm

Faculty Mentor: Teresa Brainerd

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SESSION 4 — 1 - 1:45PM

Lucas Gibbons

Modeling Pressure Drop in Diabatic Pipelines of 2-Phase Carbon Dioxide

Faculty Mentor: Zeynep Demiragli

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Injun Go

Redefining the Celestial Court: How the Qing Dynasty Weaponized Western Diplomacy in Korea

Faculty Mentor: Aimee Genell

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Mary Harrelson

Directional and Weight Encoding in the Dorsal Premotor Cortex in a Reach-Grasp-Lift Task

Faculty Mentor: Chand Chandrasekaran

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Ely Hochfelder

Pombagira: Travestis as Conduits between Afro-Brazilian Belief Systems and Performance

Faculty Mentor: Jeff Rubin

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Ryan Huang

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

Faculty Mentor: Hui Feng

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Ganapathi Iyer

Analyzing Higgs Decays to Quarkonium States to Understand Higgs Coupling to Charm Quark

Faculty Mentor: Zeynep Demiragli

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Yasheng Jiang

Stress Development of Si During Low-Energy Ar⁺ Ion Bombardment by a Real-Time Multi-Beam Optical Stress Sensor

Faculty Mentor: Karl Ludwig

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Mielat Kiflu

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

Faculty Mentor: Benjamin Scott

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SESSION 4 — 1 - 1:45PM**Ananth Krishnan**

Aging Alters the Shelterin Complex Transcriptional Response to Acute Physical Stress in Skeletal Muscle

Faculty Mentor: LaDora Thompson

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Devangi Lamba

The Relation Between Subjective Cognitive Decline and Working Memory in Persons with Parkinson's Disease and Healthy Older Adults

Faculty Mentor: Alice Cronin-Golomb

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Haley Leung

A voltage imaging and behavioral analysis framework for studying striatal dynamics during learning

Faculty Mentor: Xue Han

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Sih-Syuan Li

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

Faculty Mentor: Jana M. Iverson

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Megha Lomada

Mapping G protein signaling with subcellular resolution

Faculty Mentor: Mikel Garcia-Marcos

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Comfort Mayenli

Development of Electron-Withdrawn Cy7 Photocages for Improved Solubility and Enhanced Near-Infrared Light Activation

Faculty Mentor: Aaron Beeler

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Afsoon Modiri

Stress Evolution of Silicon Surfaces During Ion Beam Nanopatterning

Faculty Mentor: Karl Ludwig

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Victoria Nalepka

SHR/NCrl Rats Show Increased Fentanyl Locomotor Sensitivity Compared to SHR/NHsd Rats

Faculty Mentor: Camron Bryant

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SESSION 4 — 1 - 1:45PM**Ashton Nourie**

The Forced Emigration of German Ethnic Minorities in Eastern Europe. The History, Experiences, and the Consequences of State Actions

Faculty Mentor: Jonathan Zatlin

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Noah Orellana

Towards a Diode-Pumped All-Polarization-Maintaining Ultrafast Thulium-Doped Fiber Oscillator for Three-Photon Microscopy

Faculty Mentor: Michelle Sander

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Kayla Portillo

Evaluating Indoor PM2.5 and CO2 in Low-Income Housing Before and After Gas Stove Replacement

Faculty Mentor: Jonathan Levy

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Akash Rijhsinghani

Computational Modeling of Surfactant Micelles Using Coarse-Grained Molecular Models

Faculty Mentor: John Straub

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Layton Sahler

*Literary topology and relational landscapes: visualizing the intersecting networks of space, poetry, and gender in *The Tale of Genji**

Faculty Mentor: Keith Vincent

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Florence Sarni

ApoE Deficiency Drives Premature Ventricular Enlargement, Neurodegeneration, and Microvascular Leakage Without Cerebral Microbleeds

Faculty Mentor: Jingyan Han

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Lucy Schwartz

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

Faculty Mentor: Jennifer Schlezinger

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Hetavii Shah

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

Faculty Mentor: Cara Stepp

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Emmett Shei-House

Identification of Solar Wind Discontinuities and the Response of the Martian Induced Magnetosphere

Faculty Mentor: Chi Zhang

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Robin Sheng

Half A Mile West and Away: The Orange Line Relocation and the Unfulfilled Promises for Roxbury's Washington Street Corridor

Faculty Mentor: Betty Anderson

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Divya Sivakumar

Connected Speech Production in Spanish-English Bilinguals with Post-Stroke Aphasia and Primary Progressive Aphasia

Faculty Mentor: Swathi Kiran

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Yosphat Srithanasakulchai

Engineering a Toolkit of Light-Controllable Recombinases for Gene Circuit Control in Escherichia coli

Faculty Mentor: Mary Dunlop

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Patrick Stuart

CERN Inner Tracker Software Upgrades

Faculty Mentor: Zeynep Demiragli

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Sophie Sun

Fractured Culpability: Dissociative Identity Disorder and the Limits of Criminal Responsibility

Faculty Mentor: Susanne Sreedhar

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Reka Sundem

Shock Induced Droplet Deformation

Faculty Mentor: Sheryl Grace

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SESSION 4 — 1 - 1:45PM

Ritika Tappeta

Pre-clustering detection of unreliable genes in time-series gene expression data

Faculty Mentor: Zeba Wunderlich

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Robert Tedesco

Utilizing GPT Models to Analyze Large Political Meme Datasets for Political Issues, Humor Frames, and Hate Speech Grounded in Human Coding

Faculty Mentor: Ayse Lokmanoglu

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Velana Valdez & Kaitlynn Cherry

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

Faculty Mentor: Jessica Stern

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Adam Vilama

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

Faculty Mentor: Binyomin Abrams

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Kevin Wang

Investigating the role of Endotrophin in wound healing using an in vitro 3D microtissue platform

Faculty Mentor: Jeroen Eyckmans

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Ryan Wu & Julian Yang

Fractal and Topological Analysis of Brightfield Z stacks for Label-Free Cellular Quantification

Faculty Mentor: Eric Chang

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Julia Yan

Characterizing the Role of Moh1 in the Proteome Remodeling of Quiescence

Faculty Mentor: Hengye Man

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