

FALL RESEARCH EXPO

Monday, September 18, 2023 5:00 – 8:00 pm Houston Hall

The University of Pennsylvania's Center for Undergraduate Research and Fellowships is the University's hub for undergraduate student research, as well as the launch pad for Penn students seeking to apply for nationally competitive scholarships and fellowships Welcome to CURF's Research Expo!

Over 400 undergraduate researchers are eager to share their research with you. We hope you enjoy learning about the array of opportunities embraced by undergraduates at

one of the world's leading research universities.

Interested in getting involved in research and/or fellowships at Penn?

Visit us at curf.upenn.edu for more information about individual advising and peer support opportunities

Information Sessions and Workshops

Getting Started in Research
"How to" for specific fields of research
Getting to Know Faculty
Research Skills Series
Social Impact Research
Fellowships 101 Information Sessions
Fellowships 201 Information Sessions
Fulbright Scholarship Information Sessions
Graduate Study in the United Kingdom
Pursuing International Summer Fellowship
Opportunities

CURF Programs and Academic Initiatives

The President's Engagement Prize (PEP) supports students with financial support for both living and project expenses to develop and implement a promising local, national, or global initiative

The President's Innovation Prize (PIP) provides living and project expenses to envision and implement an innovative commercial venture to make a positive difference in the world

The Penn Undergraduate Research Mentoring Program (PURM) matches students with faculty researchers from across all twelve schools

The Summer Humanities Internship Program (SHIP) provides students with apprentice positions in a cultural, historical, or archival setting

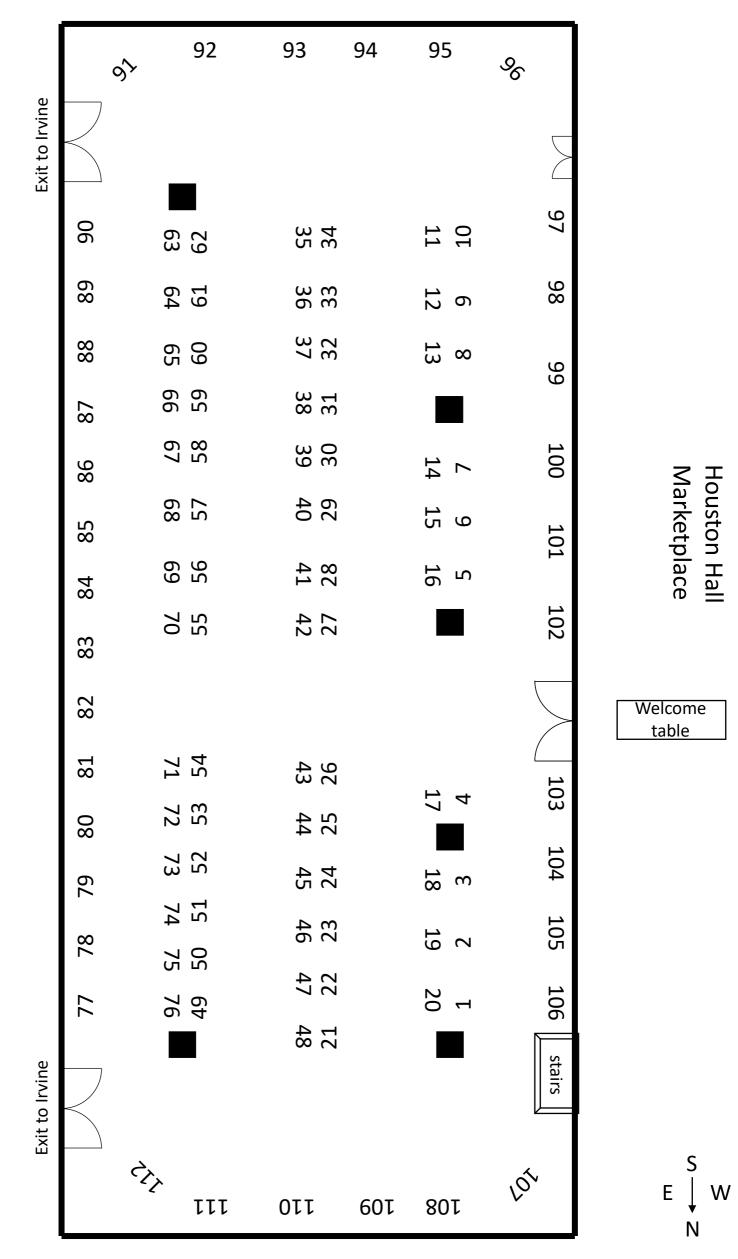
Jumpstart for Juniors provides students the opportunity to gain invaluable investigative skills in the summer after their junior year

The University Scholars Program provides support for indepth research during their undergraduate career

The Benjamin Franklin Scholars Program offers intellectually stimulating small seminars

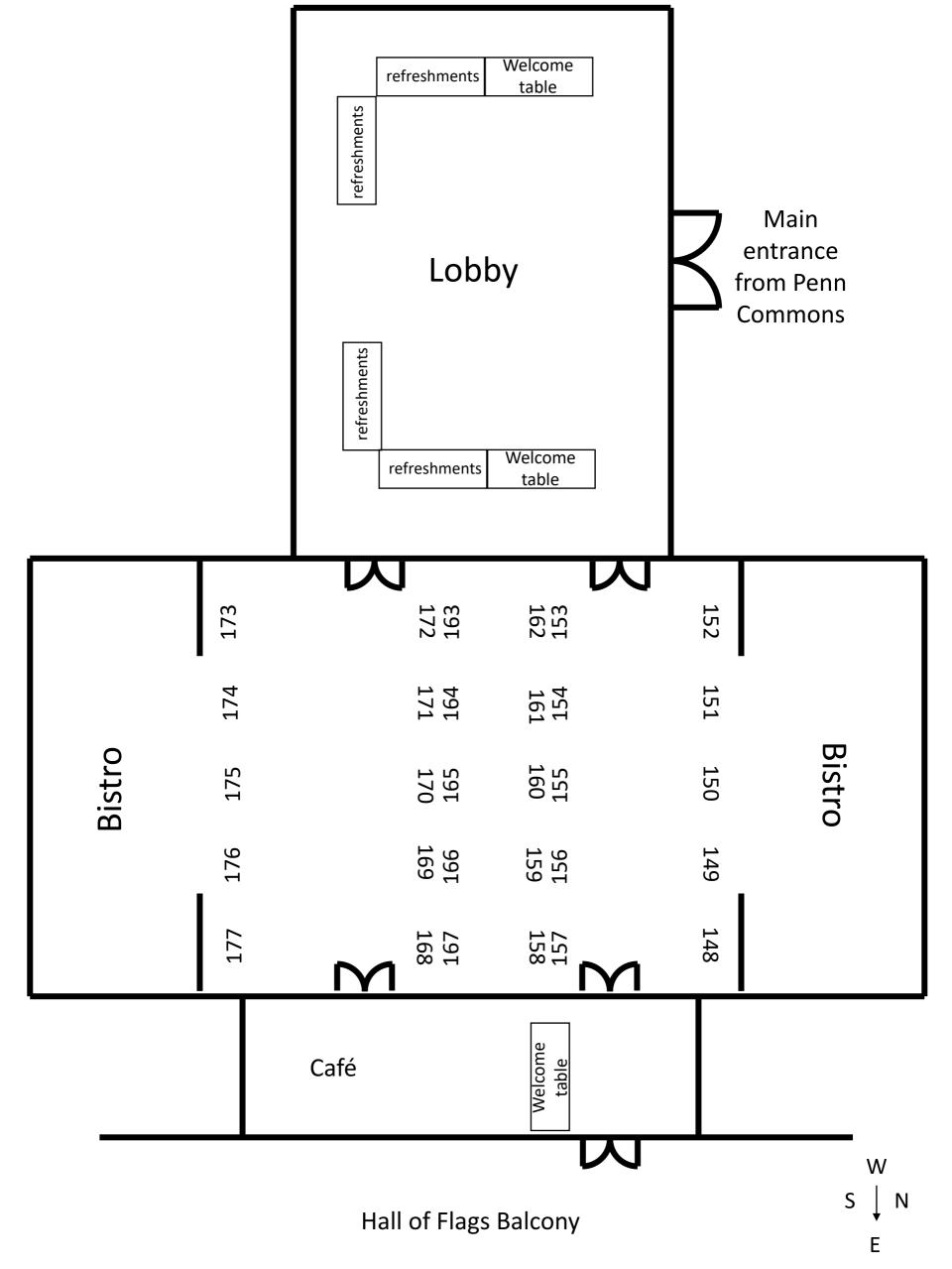
and many more!

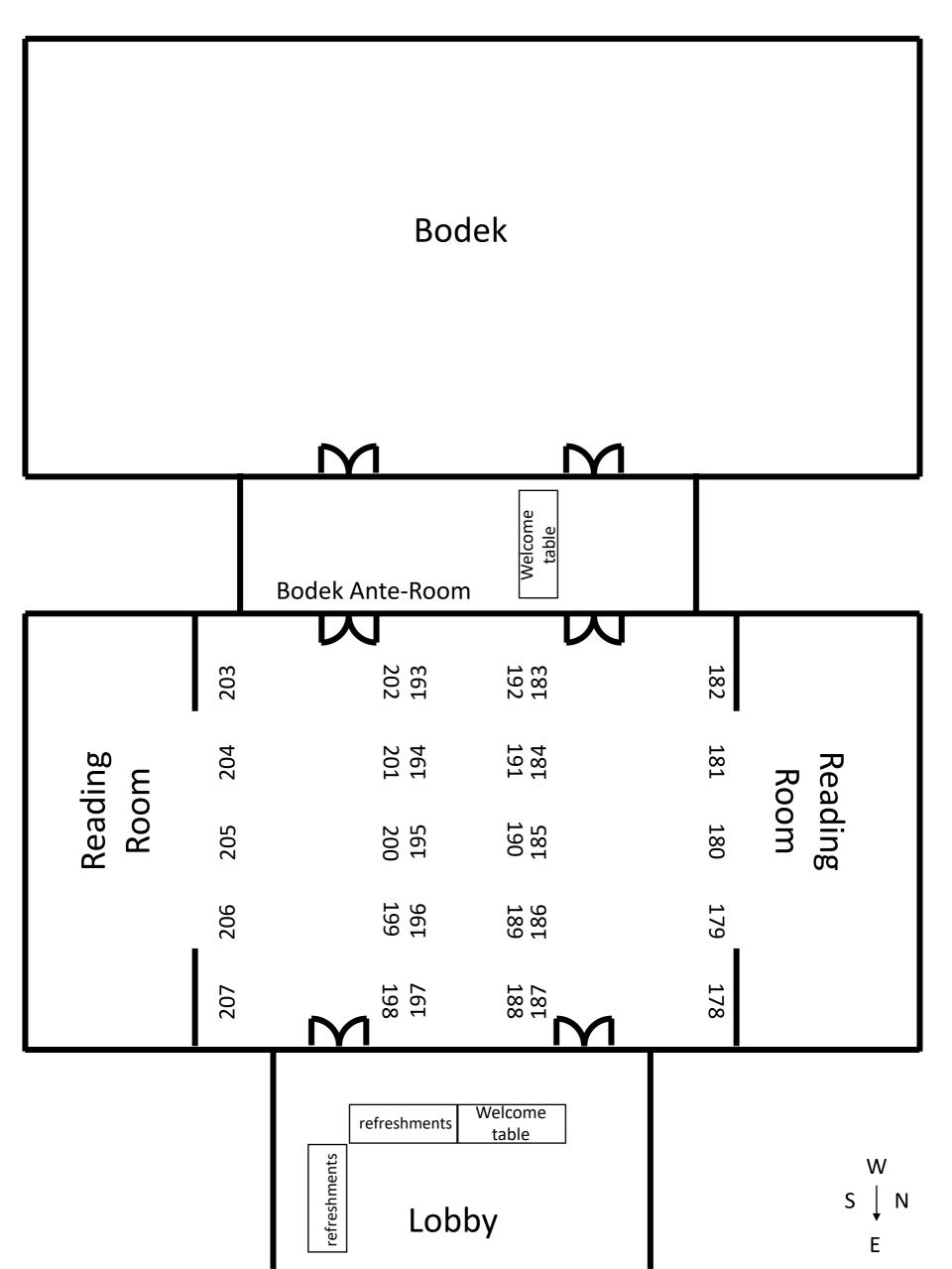
Hall of Flags 1st floor



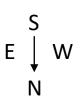
रु ς,γ Café Welcome table stairs 6TT Ň

Hall of Flags 2nd floor/balcony

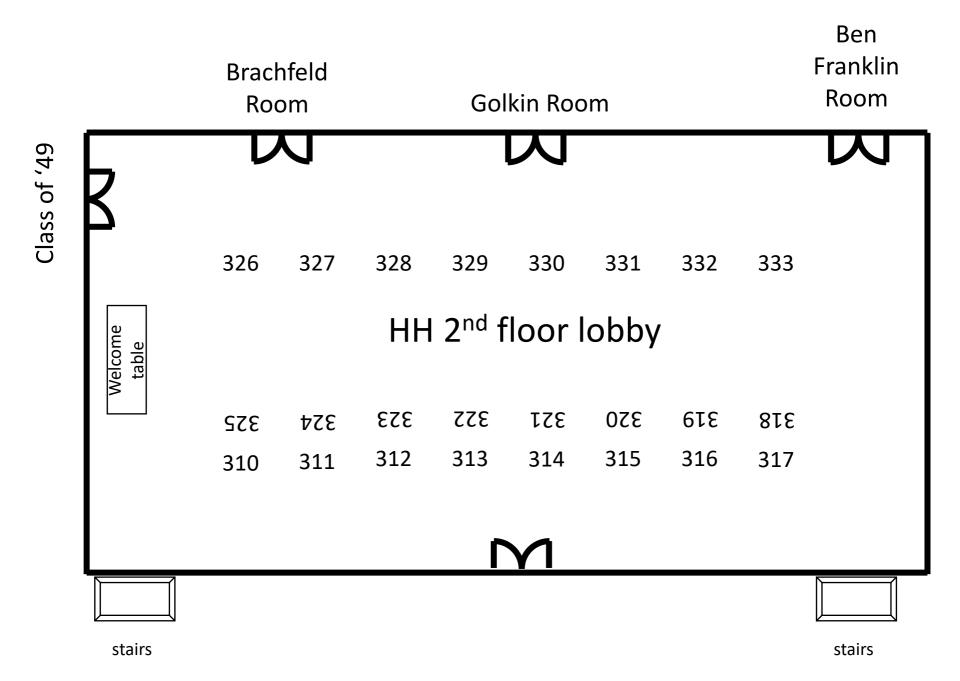


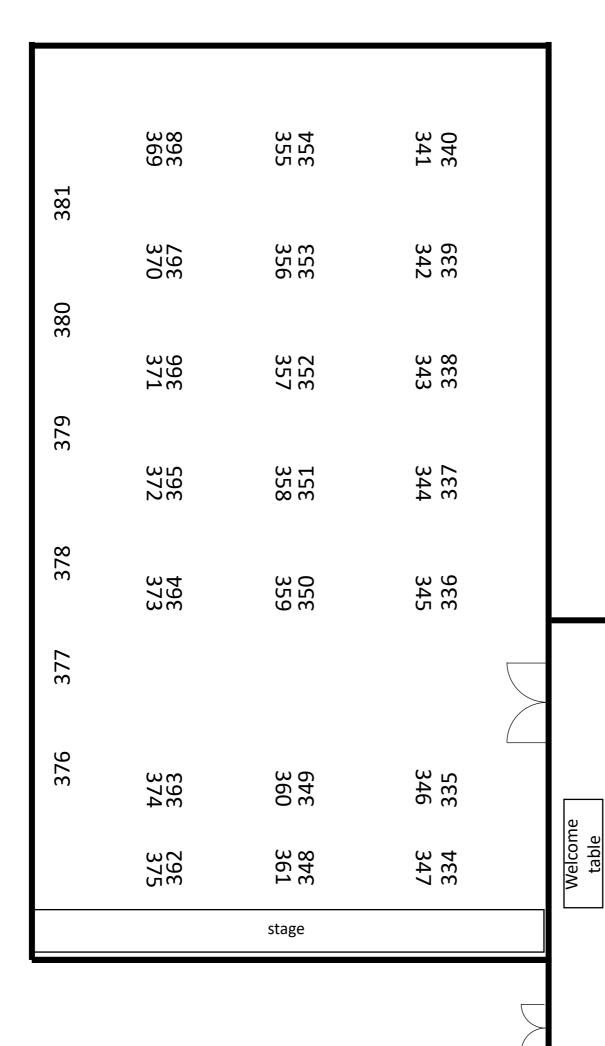


Welcome table



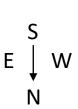
Penn Commons





HH 2nd floor lobby

stairs



Poster Locations by Room

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Reading Room (Posters 178-207)	.21
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Houston Hall 2 nd floor Lobby (Posters 310-333)	.28
Class of '49 (Posters 334-381)	.30

Hall of Flags, First Floor (Posters 1-112)

1. Amara Abdoulkarim (COL 2026) Charissa Howard (COL 2026)

Advisor: Dorothy Roberts

The Social Experience and Science of Interracial

Marriage in Chicago, 1937 - 1967

Zion Abebe (COL 2026)Amelia Becerra (COL 2026)

Advisor: Harald Schmidt

The Uses and Applications of the Area Deprivation

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3. Ethan Abraham (COL 2024)

Advisor: Abraham Nitzan

Enrichment of Chiral Vibrational Modes in Chiral

Structures

4. Kehinde Adeaga (COL 2026)

Advisor: Maria Geffen

Understanding Adaptation to Single-Sided Hearing

Loss

5. Ololade Adebayo (COL 2025)

Advisor: Adeyinka Dayo

Trends Between Medial Arterial Calcification and

Hypercholesterolemia

6. Olakanmi Adio (COL 2026)

Advisor: Victoria Vetter

Relationship Between Economic Disparities and Schools AED Availability in the Most Populated Cities

of the Six Regions of PA

7. Celine Adomakoh (COL 2026)

Advisor: Daniel Beiting

Identification of Metagenomic Determinants of Disease Severity in Children from the Pneumonia Etiology Research for Child Health(PERCH) Study

Hannah Agarwal (COL 2026)Krishna Khawani (COL 2026)

Advisor: Paul Robinson

Red Code, Blue Code: The Impact of a State's Political

Orientation on its Criminal Law

9. Aleena Alex (COL 2024)

Advisor: Vikram Paralkar

Investigating PHF6-ePHD2 Missense Mutations in

THP1 Leukemia Cell Line

10. Andrea An (SEAS 2025)

Advisor: Katherine Uyhazi

Developing an in-vitro Model of Gyrate Atrophy for

Gene Therapy

11. Riya Anand (COL 2026)

Advisor: Steven Kimbrough

Public Deliberation on Climate Transitions & Well-

Being: Climate Action & Social Resilience

12. Nicholas Angellino (COL 2025)

Raj Logue (COL 2025)

Yamin Phyu Phyu (COL 2025)

Advisor: Marc Flandreau

Broker Bankruptcies in the London Stock Exchange

during the 1820s

13. Zida Anyachebelu (COL 2025)

Cassandra Owei (COL 2025)

Advisor: Renyu Liu

Stroke Health Care Assessment Nigeria

14. Paavani Arora (COL 2026)

Advisor: Erik Wibbels

Advancing Land and Conservation: Evaluations and Impacts across Zambia, Uganda, and Burkina Faso

15. Laura Baeyens (COL 2024)

Advisor: Tobias Baumgart

The Role of Protein Condensates in Actin Polymerization During Lamellipodia & Creating a Novel Protein Construct for Improved In Vitro Study

16. Rhea Bakshi (COL 2024)

Advisor: Ellen Pure

Impact of Targeted Inhibition of TGF6 Receptor on TGF6-induced Fibroblast Differentiation and Matrix

Remodeling

17. Rokibat Bamidele (COL 2025)

Advisor: Matthew Kayser

Using Drosophila to Study Alcohol Use Disorder

(AUD) from Human GWAS

18. Khushal Bantu (COL 2026)

Advisor: Jianghong Liu

A Prenatal Study Across 3 Cohorts

19. Harish Bayana (COL 2024)

Advisor: Christopher Lengner

CRISPR-Based Lineage Tracing Reveals Dependence

of Tumor Metastatic Potential on Epithelial-

Mesenchymal Transition

20. Claudia Bellacosa (COL 2025)

Tyler Trang (COL 2026)

Advisor: Paula Fomby

Where Does the Time Go? Trends in Working Mothers' Time with Children, 1965-2019

21. Alondra Betancourt (COL 2026)

Advisor: Emily Severance

Investigating Biomarkers of the Gut-Brain Axis and Children's Mental Health in a Post-COVID-19 Urban Clinic

22. Anirudh Bharadwaj (SEAS 2026)

Advisor: Dylan Rankin

A Machine Learning-Based Approach to Anomaly

Detection in pp Collisions at the LHC

23. Trisha Bheemanathini (COL 2026)

Advisor: Christopher Forrest

Functional Outcomes of Children After SARS-CoV-2

Infection

24. Glynn Boltman (COL 2026)

Advisor: Brendan O'Leary

Divisions and Decisions: The Democratic Unionist

Party

25. Inthat Boonpongmanee (COL 2023)

Advisor: Florian Schwarz

Verbal and Non-verbal Dual Task Interference Effect

on Some Scalar Implicatures

26. Graham Branscom (COL 2024)

Advisor: Sharlene Day

HSP70 Co-Chaperones Modulate Sarcomeric Proteostasis in Hypertrophic Cardiomyopathy

27. Lily Brenner (SEAS 2026)

Advisor: Cynthia Sung

Developing a Simulation for Re-Programmable Magnetically Self-Folding Origami Structures

28. Jake Brewington (COL 2026)

Advisor: Frank Lee

Morphological Alterations in Placentas with HIF

Activation

29. Maxfield Brody (COL 2026)

Advisor: Harald Schmidt

Potential Uses of the Social Vulnerability Index

30. Pierce Bruner (COL 2026)

Advisor: Paul Schmidt

Fecundity and Population as Measures of Fitness in

D. melanogaster

31. Kevin Bryan (COL 2024)

Advisor: Jang Yoon

Large Language Model-Based Neurosurgical Evaluation Matrix: A Novel Scoring Criteria to Assess the Efficacy of ChatGPT as an Educational Tool in

Neurosurgical Education

32. Alexander Budko (SEAS 2026)

Katrina Liu (SEAS 2025)

Advisor: Kevin Johnson

GPT-4 Prompt Engineering For Automated Patient

Response Generation

33. Noah Budnitz (WH 2026)

Rishabh Mandayam (COL 2025)

Advisor: David Abrams

Law and Large Language Models

34. Camellia Bui (COL 2025)

Advisor: Emily Becker-Haimes

Integrating Exposure Therapy into Training to Reduce

Clinician Anxiety in Implementing Evidence-based

Suicide Prevention Practices

35. Grace Busser (COL 2025)

Ivanna Dudych (COL 2026)

Anna Metzger (COL 2025)

Advisor: Franca Trubiano

Building at Risk

36. Charles Cameron (COL 2024)

Advisor: Amos Smith III

Synthesis of Modified CD4 Mimetic Compounds

37. Trenton Campos (SEAS 2026)

Greggory Datto (SEAS 2026)

Andy Liu (SEAS 2026)

Advisor: Chamith Rajapakse

Polycaprolactone and Hydroxyapatite Bioprinting

without Using Solvents and its Applications

38. Sergio Emilio Carballido (COL 2026)

Erika Kishino (COL 2026)

Advisor: Jolyon Thomas

Religion and the Politics of Public Education in Japan

and the U.S.

39. Natalie Chang (COL 2026)

Advisor: Kate Creasy

Effect of PPP1R3B Deletion on Circadian Gene

Expression in Microglia and Neurons

40. Sam Charney (COL 2024)

Advisor: Bhuvnesh Jain

An Analytic Model for Galaxy Cluster Shocks

41. Caroline Chen (SEAS 2026)

Advisor: Lu Lu

Physics-informed Machine Learning for Solving

Differential Equations

42. Jason Chen (COL 2024)

Advisor: David Raizen

Analysis of Two Neurons Underlying Sickness Sleep

Behavior in C. Elegans

43. Mengxiang Chen (COL 2024)

Advisor: Katherine Theken

Effect of Adipokines on Post-Dental Implant

Inflammation Levels

44. Michael Chen (WH 2026)

Evelyn Huang (WH 2026)

Advisor: Maurice Schweitzer

Communication: Mechanics of Conversation

45. Stephanie Chen (COL 2024)

Advisor: Thomas Tropea

Predicting Impulsivity in Parkinson's Disease: A

Descriptive Analysis

46. Winston Chen (COL 2026)

Advisor: Irina Marinov

Variations in Susceptibility of Lakes to Climate Change Analyzed through the SimStrat Model

47. Melody Cheng (COL 2025)

Advisor: Ethan Goldberg

Temperature-Dependent Impairment of Interneuron Physiology in a Mouse Model of Febrile Seizures

48. Monica Cho (SEAS 2026)

Advisor: Juan Alvarez

Effect of Clock Gene Knockout on the Differentiation and Maturation of Human Pluripotent Stem Cells into

Pancreatic Islets

49. Angela Chow (NUR 2024)

Advisor: Tito Borner

Examination of the Emetogenic Properties of Tirzepatide and the Therapeutic Potential of GIPR/GLP-1R Co-Agonism

50. Jinny Chung (COL 2026)

Advisor: Sigrid Veasey

Effects of Chronic Sleep Disruption on Hippocampal

Tau and Locus Coeruleus Projections

51. Megan Chung (COL 2024)

Advisor: Michael Lampson

Determining if MCAK Activation by UMK57 Depolymerizes Kinetochore-Microtubules

52. Makayla Clark (COL 2025)

Advisor: Chamith Rajapakse

Quantification of MRI Images for Patients with

HEPATITIS C

53. Benjamin Cohen (COL 2025)

Meredith Devine (COL 2025)

Advisor: Claire Finkelstein

Beyond Guantánamo: Restoring the Rule of Law to

the Law of War

54. Meheer Commuri (COL 2025)

Advisor: Ramya Sreenivasan Mapping Early Modern India

55. Moira Connell (COL 2026)

Vishal Krishnaiah (COL 2026)

Advisor: Melissa Lee

International State-Building in Post-WWII Japan

56. Isabela Contreras (COL 2026)

Advisor: Kara Bernstein

A Novel Interaction Between the Shu Complex and the MCM Complex Mediates DNA Lesion Bypass

During DNA Replication

57. Haley Creighton (COL 2026)

Advisor: Amy Stornaiuolo

How Does Queerness Intersect with Fandom Bonding

in a Discord Youth Writing Community?

58. Siri Dandu (SEAS 2026)

Prishna Martinez (COL 2025)

Advisor: Erica Carpenter

Cross-Validation of 2022 and 2023 Cohorts of Cellfree DNA Methylation as a Biomarker of Malignant

vs. Benign Lung Nodules

59. Caroline Dannacher (COL 2025)

Advisor: Ana Cristancho

Effects of Prenatal Hypoxia on Neuronal Migration

60. Anmol Dash (COL 2026)

Advisor: Andrew Modzelewski

Role of the IAP Gag Retrotransposon in Mouse

Embryonic Development

61. Roshni Datta (COL 2026)

Advisor: Victoria Bedell

Effects of Anesthetics on Mitochondrial Delocalization in Zebrafish Neurons

62. Parth Dedhiya (COL 2026)

Advisor: Kate Townsend Creasy

Effects of PPP1R3B on Hepatocytic Circadian Gene

Expression

63. Klarissa Diaz (COL 2026)

Advisor: Sunny Shin

Comparing Non-Canonical Inflammasome Activation

between Humans and Mice: Exploring the

Differences

64. Amy Dinh (COL 2025)

Advisor: Mantha Zarmakoupi

Understanding Geometry in the Construction of the

Bouleuterion

65. Cynthia Dong (SEAS 2026)

Tony Le (COL 2025)

Advisor: Anh Le

Inhibition of Axonal Degeneration Using SARM-1

siRNA Loaded Lipid Nanoparticles

66. Anya Draves (COL 2026)

Advisor: Elliot Lipeles

Search Into Dark Matter by Investigating Jets

Produced in Proton Collisions

67. Arda Enfiyeci (SEAS 2025)

Advisor: Erik Wibbels

Using Data Analysis and Machine Learning for

Political Science Research

68. Aylin Ergin (COL 2025)

Advisor: David Raizen

Mutations in ceh-17 and Its Effect on Sickness

Induced Sleep in C. elegans

69. Jake Fanale (SEAS 2026)

Advisor: Wanding Zhou

Developing a Comprehensive R/Bioconductor

Package for DNA Methylation-based Human Cancer

Classification and Phenotyping

70. Lucy Fekade (COL 2025)

Logan Fleming (COL 2025)

Advisor: Daniel Swingley

Onset Coda Judgements of African American Mothers in Infant Directed Speech

71. Felipe Flores Cruz (COL 2026)

Eric Ryu (COL 2026)

Advisor: William Ewald

Justice James Wilson Biography

72. Xianli Fu (COL, WH 2026)

Advisor: Cary Coglianese

Regulation and Regulatory Processes: Cataloging the

Use of AI/ML Tools in the Federal Government

73. Rohan Gala (WH 2026)

Adam Gorka (SEAS 2025)

Advisor: Sandhitsu Das

Quality Control and Topological Analysis of MRI

Segmentation Data

74. Om Gandhi (COL, SEAS 2025)

Advisor: Michael Hogarty

Investigating Dual Polyamine Synthesis Inhibition and Proline-Arginine Depletion Therapy in TH-

MYCN+/+ Mice with Neuroblastoma

75. Phillip Gao (SEAS 2026)

Advisor: Yasmin Kafai

Exploring Youth's Everyday Perception of Chat GPT

76. Nahu Gebregiorgis (SEAS 2026)

Advisor: Joel Stein

Epilepsy Quantitative Imaging and Electrophysiology

Lab

77. Joshua George (COL 2025)

Advisor: Evelyn Thomson

Chargino Pair RPV Decay to Higgs Boson and

Leptonic Tau

78. Miraya Gesheva (COL 2026)

Teia Hudson (COL 2026)

Advisor: Juan Llamas-Rodriguez

Netflix in Mexico: A 10-year Assessment

79. Katie Gilbert (COL 2024)

Naomi Phemister-Jimenez (COL 2024)

Advisor: Daniel Beiting

Presence of Bacteria and Antibiotic Resistance in

Water Sites on San Cristóbal Island

80. Jasleen Gill (COL 2024)

Advisor: Rahul Kohli

Interrogating Mechanism to Design Efficient CRISPR-

Cas12a Editors

81. Jacob Goell (SEAS 2025)

Advisor: Robert Carpick

Graphene Auto-Kirigami: Forming 3D Structures

Through Atomic Force Cutting

82. Iris Gong (COL 2026)

Advisor: Foteini Mourkioti

Inhibition of NF-kB Pathway in MuSCs Impairs

Muscle Regeneration

83. Joy Gong (COL 2025)

Advisor: Anna Schapiro

A Meta-Learned Neural Network Model of the Hippocampus with Brain-like Hierarchically-Structured Sparsity and Learning Rate Patterns

84. Michelle Gong (COL 2025)

Advisor: Alexander Proekt

Subanesthetic Ketamine and Propofol Reduce Amplitude of Auditory-evoked ERPs in Humans

85. Eva Gonzalez-Whitehouse (COL 2026)

Advisor: Chamith Rajapakse

Automated 3D Segmentation for Lumbar Spines and

Femurs for Augmented Reality

86. Luke Gooding (COL 2024)

Advisor: Eric Grimes

Transition between Primary and Secondary Education in Trinidad and Tobago: The Concordat

and The Privilege Problem

87. Miette Gourlay (COL 2025)

Dara Jih-Cook (COL 2026)

Advisor: Jacqueline Corcoran

Depression Prevalence Among US Women on Welfare: A Systematic Review & Meta-Analysis

88. Aditya Gowd (SEAS 2025)

Advisor: Kathryn Davis

Analyzing Harmonization Strategies for Functional

Connectivity Data

89. Evan Grove (SEAS 2026)

Cassidy Schuman (SEAS 2026)

Advisor: Ali Nabavizadeh Pediatric Automatic Defacing

90. Isabelle Gu (WH 2026)

Advisor: Yasmin Kafai

Investigating Youth's Understanding of ML/AI Using

Cultural Probes

91. Millie Gu (WH 2026)

Advisor: Duncan Watts

Optimizing Tools to Facilitate Deliberation Research

92. Rohana Gullapalli (COL, WH 2025)

Advisor: Yijing Su

Hippocampal Aging Clock

93. Sagar Gupta (COL 2023)

Advisor: Nikolaos Sgourakis

Structural Principles of Peptide-Centric Chimeric Antigen Receptor Recognition Guide Therapeutic

Expansion

94. Shikhar Gupta (COL 2026)

Advisor: Ana Cristancho

Regulation of Lactate and Protein Lactylation by

Prenatal Hypoxia

95. Dedeepya Guthikonda (COL, WH 2026)

Advisor: Sade Bonilla

How Effective are Last-Dollar Scholarship Programs

in Providing Aid to Qualifying Students?

96. Maricela Guzman (COL 2026)

Advisor: George Burslem

Towards in vitro, Site Specific Polyubiquitinated

Proteins

97. Yixin Gwee (WH 2025)

Advisor: Daniel Garrett

Investigating the Green and Social Premium in the Pricing of Bonds Issued by Multilateral Development

Banks (MDBs)

98. Ahmad Hammo (SEAS 2025)

Advisor: Joseph Cichon

Exploring the Therapeutic Potential of Psilocybin in a Mouse Model of Neuropathic Pain with Comorbid

Depression-like State

99. Alan Han (COL 2026)

Advisor: Gregory Corder

Mapping Brain Circuitry For Pain's Affective

Component: Projection from Basolateral Amygdala

to Nucleus Accumbens

100. Beatrice Han (COL 2025)

Advisor: Juan Alvarez

Optimizing Cytokine Cocktails in Pancreatic Islet Organoids to Investigate Maturation-Related Vulnerability to Demise from Pancreatic Islet-

Directed Autoimmunity

101. Joy Han (COL 2026)

Advisor: Andrew Edmondson

Glycosylation Characterization of SLC35A2-CDG & SLC39A8-CDG Patient Fibroblast Cells Utilizing

Lectins

102. Stephanie Hanchak (COL 2025)

Advisor: Edward Brodkin

Reciprocal Relation Between Social Anxiety and

Social Functioning in Autistic Adults

103. Leilei Hao (COL 2024)

Advisor: Franz Weber

BiLSTM-FC: A Deep Learning Model for Automatic

Sleep Stage Classification in Mice

104. Jordyn Harris (SEAS 2025)

Advisor: Michelle Johnson

Machine Learning Analyzations of Infant Limb

Motion Using the PANDA Gym

105. Stefan Hatch (COL 2026)

Advisor: Sara Jaffee

Qualitative Interviews for Participants in the PHL

Housing+ Project

106. Madeline Hatola (COL 2026)

Advisor: Victoria Vetter

Assessing AED Presence Across PA School Districts: A

Senate Bill No. 375 Cost Analysis

107. Olivia Haynie (COL 2024)

Liv McClary (COL 2024)

Justin Seward (COL 2025)

Advisor: Donovan Schaefer

Historic Black Perspectives on Confederate

Monuments

108. Yitong He (WH 2026)

Advisor: Jianghong Liu

Study on the Effect of Finger Exercises in Elderly Patients with MCI (Mild Cognitive Impairment)

109. Brian Herman (COL 2026)

Advisor: Foteini Mourkioti

TRF2 Function in Cardiomyocytes during Embryonic

Heart Development

110. Yerahm Hong (SEAS 2026)

Advisor: Ethan Goldberg

Investigating Pattern Separation Ability in an Epileptic Mouse Model of Dravet Syndrome

111. Leah Hopf (COL 2025)

Advisor: Jon Hawkings

Quantification & Classification of Particulate

Manganese in a Glacial Environment

112. Iris Horng (COL 2024)

Advisor: Cory Johnson

Algorithmic Generation of DNA Self-Assembly Graphs

Hall of Flags, 2nd Floor (Posters 113-147)

113. Lauren Howie (COL 2026)

Advisor: Sigrid Veasey

MAO-A Inhibitor Clorgyline Administered in Chronically Sleep Deprived Mice Fails to Protect Neuronal Health and Slow Alzheimer's Pathology

Progression

114. Michael Hu (COL 2026)

Advisor: Klaus Kaestner

Shortened Telomeres Impact Liver Regeneration in

Mice

115. James Huang (COL 2026)

Margot Schneider (COL 2026)

Advisor: Jianjing Kuang

Music, Language, & Phonetic Cognition in Children

116. Leo Huang (COL 2025)

Tommy Zeng (COL 2025)

Advisor: Jacques deLisle

China's Law at Home and Abroad

117. Melissa Huerta (COL 2025)

Advisor: Daniel Hopkins

Philadelphia Mayoral Primary Polling

118. Daniel Hwang (COL 2025)

Megan Yang (SEAS 2026)

Advisor: Danielle Mowery

Identifying Medication Needs from Patients' Chatbot Messages Using Natural Language Processing and

Machine Learning

119. Rahmat Ifaz (COL 2025)

Advisor: Andrew Edmondson

Identifying Roles of Abnormal Protein Expression in

GALNT2-CDG Phenotypes

120. Szirina Ismail (COL 2026)

Advisor: Joseph St. Geme III

Phenotypic Characterization of Kingella kingae Isolates Recovered from Patients with Endocarditis

121. Jo lyasele (COL 2025)

Advisor: Mariella De Biasi

CBD Exposure in Adolescence Decreases Future

Morphine Consumption in Mice

122. Alex Iyer (COL 2025)

Advisor: Katherine Uyhazi

Inner Retinal Changes in Mouse Model of LCA5

Retinal Degeneration

123. Michael Jacob (COL 2026) Sanjit Kobla (COL 2026)

Advisor: Bhuvnesh Jain

3D Anisotropic Scattering Transformation

124. JoAnna James (COL 2026)

Advisor: Kelly Jordan-Sciutto

Insights Into Potential Production of PERK Protein Isoforms Resulting from EIF2AK3 Alternative Splicing

125. Hiba Jamil (COL 2025)

Advisor: Nosheen Reza

Optimal Management of Background Therapy in Patients with Symptomatic Obstructive Hypertrophic

Cardiomyopathy Initiated on Mavacamten

126. Terrance Ji (COL 2026)

Advisor: Dylan Small

Matching for Evaluating Dynamic Treatment

Regimes

127. Annabelle Jin (COL 2025)

Advisor: David Frank

Mesenchymal Brd4 is Required for Lung

Morphogenesis

128. Hannah Jin (COL 2024)

Advisor: Dylan Small

Development of Quadruple Crossmatch Test

129. Joey Jung (COL 2024)

Advisor: Elaine Simon

Game-Changing Solutions: Community Benefits Agreements and the Quest for Equitable Urban

Redevelopment

130. Sam Jung (COL 2026)

Advisor: Danaë Metaxa
TikTok, What's on the Clock?

131. Ioannis Kalaitzidis (COL 2025)

Advisor: Masao Sako

Navigating Uncharted Skies: Investigating Template Subtraction for Type Ia Supernovae Detection

132. Madison Kang (COL 2026)

Advisor: Blanca Himes

Mapping TRI Releases in Pennsylvania and

Philadelphia Census Tracts

133. Deepika Kannan (COL 2026)

Advisor: Steven Kimbrough

Optimizing Sustainable Transportation Policies with

Agent-Based Modeling

134. Sofia Kaparis (COL 2026)

Advisor: Danielle Cullen

Socially Equitable Care by Understanding Resource

Engagement (SECURE)

135. Prabh Kaur (COL 2026)

Advisor: Doris Wagner

Investigating LFY K80R in Arabidopsis: Functionality

and Phenotypic Effects

136. David Kedeme (COL 2025)

Advisor: Minghong Ma

Olfactory System Overview: Organization, Processes,

Roles, & Disorders

137. Destynn Keuchel (SEAS 2026)

Na Lee (COL 2025)

Advisor: Laia Mogas-Soldevila

TERRENE

138. Nayab Khurshaidi (COL 2025)

Emily Roberts (COL 2026)

Advisor: Emily Hannum

Climate Risk, Pollution, and Childhood Inequalities in

Low- and Middle-income Countries

139. Brian Kim (COL 2026)

Advisor: Kang Ko

Investigation of Novel Cell Death Mechanism for

Periodontal Inflammation in Humans

140. Bryan Kim (COL 2025)

Advisor: Matthew Good

Regulating JAK-STAT Pathway via Thermo Controlled

Condensates

141. Enne Kim (COL 2026)

Advisor: Heather Huntington

Land and Conservation Efforts in Zambia: Zambia Eastern Kafue Nature Alliance (EKNA) Baseline Data

Analytics

142. Hannah Kim (COL 2026)

Advisor: Zhaolan Zhou

Induction of Cre Recombinase Activity In Vivo in Mice

143. Hayle Kim (COL 2025)

Advisor: Matthew Kayser

A Candidate-based Screen to Identify Genes Involved

in Sleep Maturation

144. Kyulee Kim (SEAS 2026)

Luna Sato (COL 2026)

Yutong Yi (COL 2026)

Advisor: Huafeng Wei

Intranasal Administration of Dantrolene

Nanoparticles as Neuroprotection for Alzheimer's

Disease

145. Minnie Kim (COL 2025)

Allison Mi (SEAS 2026)

Simon Roling (SEAS 2026)

Advisor: Christopher Yoo

Assessing Smartphone and Internet Penetration in

Ghana

146. Olivia Kim (COL 2025)

Advisor: Anjan Chatterjee

Penn Center for Neuroaesthetics: Engagement with

Artwork

147. Rebecca Kim (COL 2024)

Advisor: Wengin Luo

Single Soma Dissection of Human DRG Neurons by

Laser Capture Microdissection

Bistro (Posters 148-177)

148. Sophie Klessel (SEAS 2025)

Advisor: Riccardo Gottardi

An in vitro Study of Scaffolds for Cartilage Repair

149. Victor Kogo (WH 2026)

Advisor: Samir Nurmohamed

Being an Alternate Choice and Feedback Seeking in

Organizations

150. Daniella Kohn (COL 2026)

Advisor: Edward Brodkin

Effects of Concurrent ADHD and Anxiety on Self and Informant Report Discrepancies in Autistic Adults

151. Christine Kong (COL 2024)

Advisor: Rebecca Ganetzky

Utilizing Stable Isotopes to Develop a Fully Quantitative Mitochondrial Translation Assay

152. Maya Kreger (COL 2025)

Advisor: Ileana Pérez-Rodríguez

Microbiology of Metal-reducing Isolate

Thermaerobacter sp. Strain 36 from the Subseafloor

Ocean Crust

153. Aravind Krishnan (COL, WH 2025)

Advisor: Roger Greenberg

The BLM Helicase Enables Cancer Cells to Achieve Telomerase-Independent Immortality through Alternative Lengthening of Telomeres (ALT)

154. Jun Kwon (SEAS 2026)

Advisor: Cynthia Sung

Design and Characterization of a Tunable-Stiffness

Pneumatic Legged Hopping Robot

155. Andrew Lee (COL 2026)

Advisor: Kenneth Zaret

Kdm4 H3K9me3 Demethylases Maintain Cellular

Identity of Adult Mouse Hepatocytes

156. Gavin Lee (COL 2025)

Advisor: Frederick Bennett

Utilizing Lyso-IP for Lipidomics in an in vitro Model of

Krabbe Disease

157. Hannah Lee (COL 2025)

Advisor: Martin Seligman

Theory and Research in Positive Psychology

158. Joyce Lee (COL 2026)

Advisor: Leo Cheng

Retrospective Analysis of Serum Indicators for

COVID-19 Severity

159. William Lee (COL 2024)

Advisor: David Raizen

The Discovery of Drugs Reducing Stress-Induced-

Sleep Using High-Throughput Screening

160. Sage Leland (COL 2026)

Advisor: Dhivya Ramasamy

A Study of Patient Digital Usage Habits, Access, and

Attitudes at an Eye Hospital in Southern India

161. Josh Leshinskie (SEAS 2026)

Advisor: Igor Bargatin

Achieving Near-Atmospheric Levitation of Micron-

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162. Sophie Levin (COL 2026)

Advisor: Kelly Jordan-Sciutto

Antiretroviral Activation of the PERK Pathway Leads

to Stress Granule Formation in Differentiating

Oligodendrocytes

163. Jenny Li (COL 2026)

Advisor: Wanding Zhou

Exploration of Feature Selection Strategies in DNA

Methylome-based Cancer Classification

164. Jiayi Li (COL 2025)

Advisor: Ramya Sreenivasan

Military Campaigns in Early Modern South Asia:

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165. Katherine Li (SEAS 2026)

Annabel Sumardi (COL 2025)

Advisor: Joshua Mosley

Animating Sustainability: Unveiling Professor

Poldergeist's Research on Dutch Water Management

166. Lilian Li (COL 2024)

Advisor: Chamith Rajapakse

Utilizing AI-based 2D Segmentation for 3D Medical

Imaging Analysis

167. Michael Li (COL, SEAS 2025)

Advisor: Duncan Watts

High-Throughput Experiments on Group Dynamics:

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168. Sunnie Li (SEAS 2026)

Advisor: Lukasz Bugaj

Using Optogenetics to Explore RTKs' Role in Persistence of EML4-ALK Cancer Cells

169. Thomas Li (COL, SEAS 2025)

Advisor: Juan Londono

The Economic Significance of Rising Inflation

Uncertainty

170. Yijia (Laura) Li (COL, SEAS 2026)

Advisor: Lu Lu

Machine Learning Guided Rhodopsin Engineering for

Voltage Imaging

171. Cheryl Lim (SEAS 2025)

Advisor: Deep Jariwala

Enhancement of Charge Transport by Exciton

Polaritons in Tungsten Disulfide Photovoltaic Devices

172. Ryan Lim (SEAS 2024)

Advisor: James Riley

Investigating RASA2 Overexpression to Reduce CAR T

Cell On-Target Off-Tumor Toxicity

173. Jessica Lin (COL 2026)

Advisor: Courtney Wolk

Barriers and Facilitators of Implementing Teamwork

Training for School Mental Health Teams

174. Linda Lin (SEAS 2024)

Advisor: Deep Jariwala

Broadband Solar Light Harvesting from Ultrathin Two-Dimensional Semiconductor Heterostructures

175. Po-Ting Lin (COL 2026)

Tammy Nguyen (SEAS 2026)

Advisor: Chinedum Osuji

Using Self-Assembling Surfactants to Form Water

Filtration Membranes

176. Alyssia Liu (COL 2024)

Advisor: Dana Graves

The Oral Mucosa is Enriched with Inflammatory

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177. Danju Liu (COL 2026)

Alana Newberger (COL 2025)

Rahan Siddiqi (COL 2024)

Advisor: James Pawelski

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178. Hannah Liu (COL 2025)

Advisor: Philip Tetlock

Utilizing Correlational Analysis to Identify Traits of

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179. lvy Liu (COL 2026)

Advisor: Arnold Mathijssen

Cargo Transport by Schooling Micro-organisms

180. Jason Liu (SEAS 2026)

William Dodds (COL 2025)

Eric Zhao (SEAS 2025)

Advisor: Mayur Naik

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181. Kevin Liu (SEAS 2026)

Advisor: Brian Litt

Task Aware Representations of Sentences Improves Seizure Freedom Classification in Data-Limited

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182. Ryan Liu (COL 2026)

Advisor: Qi Long

Using Tissue-specific Genetic Variation in Mendelian Randomization to Map the Influence of Education and Intelligence on the Risk of Alzheimer's Disease

183. Sophia Liu (COL 2026)

Advisor: David Reibstein

Perception Can Be Reality: How Nation Branding and a Country's Brand Impacts Openness To Immigration

184. Sydney Liu (COL 2026)

Veronica Marlotte (COL 2025)

Advisor: Delphine Dahan

Cards and Conversation: Social Reasoning in

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185. Winson Liu (COL 2025)

Advisor: Paul Schmidt`

Experimental Evolution of Malathion Resistance in

Drosophila melanogaster

186. Yuhan Liu (SEAS 2025)

Advisor: Jordan Raney

Improving the Precision of Direct-Write 3D Printing

via Computer Vision and Machine Learning

187. Edward Lopez Velazquez (COL 2024)

Advisor: Shardha Jogee

Characterizing The Accretion Behavior Of AB Aurigae, A Potential Young Planet Host Star

188. Luiza Louback Fontes (COL 2026)

Advisor: Amy Stornaiuolo

Fostering Belonging and Inclusivity through Multilingual and Multimodal Practices: An Exploration within an International Context

189. Cindy Lu (COL 2026)

Advisor: David Merrick

Understanding How Fibro-Adipogenic Progenitor Cells React to Obesity/Injury and Its Effects on

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190. Kira Lu (SEAS 2024)

Advisor: Xiaowei Liu

Geographical Specificity of Osteocyte Function within the Cortical Bone Matrix under a Variety of Estrogen

Level and Reproductive Conditions

191. Tianhao Luo (COL, WH 2025)

Advisor: Peter Koo

Deciphering the Genetic Code behind Single-Cell Chromatin Accessibility: Interpreting a Sequence-

based Convolutional Neural Network

192. Tristan Ly (COL 2024)

Advisor: Annette Lareau

Differences in Navigation of Elite Institutions by

Social Class

193. Katherine Lynch (COL 2024)

Advisor: Erica Korb

Investigating the role of Histone Methylation in

Neurodevelopmental Disorders

194. Hannah Macdonald (COL 2026)

Advisor: Chamith Rajapakse

Backend Development for Electronic Medical Record

System

195. Jan Magielski (COL 2024)

Advisor: Ingo Helbig

Delineating the Clinical and Genetic Spectrum of

Speech Disorders in 52,143 Individuals

196. Sanya Malhotra (COL 2024)

Advisor: Ramya Sreenivasan

Workers, Farmers, and Social Philosophers: The Rise

of Communism in Punjab, 1913-1929

197. Saurabh Mallela (SEAS 2025)

Advisor: Erin Conrad

Towards Automated Epilepsy Diagnosis

198. Akshatha Manjunatha (COL 2025)

Advisor: Tobias Baumgart

Studying the Role of Lamellipodin in Suppressing

Endophilin's Curvature Generation

199. Audrey Mann (SEAS 2025)

Advisor: Igor Bargatin

Photophoretic Thruster for Trajectory Control of

Large, High-altitude Balloons

200. Daniel Markman (COL 2024)

Advisor: Joseph Cichon

Comparing the Molecularly Distinct Psychedelic Antidepressants in a Novel Mouse Model of Chronic

Stress

201. Crystal Marshall (COL 2024)

Advisor: Perry Johnson

Towards Transformation: A Call for the Reimagination of the Film Canon

202. Hana Matsuda (SEAS 2025)

Advisor: Daniel Hammer

Functional Use of RGG condensates to Control

Motility of HL 60 cells

203. Benjamin McAvoy-Bickford (COL 2026)

Shaurya Singhi (SEAS 2026)

Nina Wang (COL 2026)

Advisor: Eugene Buckley Kashaya Language Resources

204. Mia McElhatton (COL 2026)

Advisor: Kok-Chor Tan

Tiger Widows in the Soundarbans: Gender,

Conservation, and Culture

205. Zarah Meek (SEAS 2025)

Advisor: Irma Elo

Cognitive Aging in Chile and the Context of Chile's

Indigenous Populations

206. Arianna Mejia (COL 2025)

Advisor: Vivek Bhalla

Generation of an Endogenous Mutation in CIC-Kb

Using Prime Editing

207. Miranda Meng (COL 2025)

Advisor: Ahmara Ross

Evaluating the Reliability of Brn3a and RBPMS as Retinal Ganglion Cells Markers with Age and Ocular

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Bodek Lounge (Posters 208-309)

208. Francesco Milano (COL 2024)

Advisor: Tobias Baumgart

Purification of VASP Constructs and Liquid-liquid Phase Separation with Lamellipodin and Endophilin

209. Madeeha Mirza (COL 2024)

Advisor: Ayelet Ruscio

GAD, MDD, and COM: Threat and Reward Response

in Daily Life

210. Kai Mitsuishi (COL 2026)

Advisor: Arnold Mathijssen

E. coli Motility in Microchannels - Experimental and

Theoretical Insights

211. Anthony Montes de Oca (COL 2025)

Advisor: Stacey Bevan

Autism Diagnosis and Service Navigation of Hispanic

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212. Kayleigh Mooney (COL 2025)

Advisor: Loretta Flanagan-Cato

Community Engagement Neuroscience

213. George Morcos (COL 2024)

Advisor: Costas Koumenis

FLASH Proton Irradiation Prevents Salivary Gland Dysfunction and Restores Aquaporin-5 Expression in

Mice

214. Jonibek Muhsinov (COL 2026)

Advisor: Thomas Mallouk Synthesis of Photocatalysts

215. Eric Muthersbaugh (COL 2025)

Advisor: Suradip Das

Piezoelectric Electrospun Cardiac Patch for Heart Tissue Repair: A Tissue Engineering Approach to Healing Damaged Cardiac Tissue Post Myocardial

Infarction

216. Sophie Mwaisela (COL 2024)

Advisor: Lee Cassanelli

L'Évolution d'un État Philanthropique: Colonial

Switzerland and Its Voices of Dissent

217. Eric Myzelev (COL 2025)

Advisor: Lu Lu

Physics-Informed Neural Networks for Tracking the

Hemodynamics of Dissected Aorta

218. Alena Nag (COL 2025)

Advisor: Ahmed Moustafa

Phylogenomic Analysis of Pseudomonas aeruginosa

Isolates from Bacteremia Cases at CHOP

219. Gautham Nair (SEAS 2024)

Advisor: Riccardo Gottardi

Decellularized Cartilage for Pediatric Tympanoplasty

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220. Negin Najafi (COL 2026)

Advisor: Gary Bernstein

Determining the Uncertainty of Different

Cosmological Parameters Using the Distribution of

Dark-matter Density

221. Connor Nakamura (COL 2025)

Advisor: Eiichiro Azuma

From Camps to Consumer Society: The Decline of Japanese American Radical Labor from 1942 to 1960

222. Arav Nangia (COL 2026)

Advisor: Michael Lampson

Mechanisms of Equalization Between Maternal and

Paternal Telomeres in Embryonic Cells

223. Shivek Narang (COL 2025)

Advisor: James Gugger

Correlating the Effect of the Size and Location of TBI Induced Lesions on the Likelihood of Developing Epilepsy through Functional Connectivity Mapping

224. Siena Nason (COL 2025)

Advisor: Marco Ruella

Modulation of the Epigenome of Tumor and Immune Cells to Enhance CAR-T Therapy against Non-Hodgkin

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225. Roene Nasr (COL 2024)

Advisor: Kyle Vining

Regulation of Dental Pulp Stem Cells in Fibrotic

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226. Jerayla Navarro (COL 2025)

Advisor: John Seykora

Biomarkers of Early UV-induced Skin Cancer

227. Lisel Ndrecka (COL 2026)

Advisor: Cary Coglianese

Economic, Financial, and AI Regulation

228. Suraj Neelamagam (COL 2026)

Advisor: Heath Schmidt

Activation of Endogenous CeA -> NAc Projections

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229. Andrew Ng (SEAS 2025)

Advisor: Hersh Sagreiya

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230. Hung Nguyen (COL 2024)

Advisor: Rachel Kuske

Anharmonic Forcing of a Vibro-Impact Energy-

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231. Thu Nguyen (COL 2026) Layla Sayed (COL 2026)

Advisor: Julia Gray

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232. Tommy Nguyen (COL 2024)

Advisor: Mark Sellmyer

Regulation of eDHFR-tagged Proteins with

Trimethoprim PROTACs

233. Elizabeth Ni (COL 2026)

Advisor: Wanjiku Njoroge

Racialized Perceptions of Motherhood: the

Pervasiveness of Implicit Biases in Race-Conscious

Biomedical Research

234. Sarah O'Konski (COL 2025)

Advisor: Ivan Dmochowski

Synthesis of a Novel Chelating Hemicryptophane for

Stabilization of Cu(I)

235. Dominic Olaguera-Delogu (WH 2026)

Advisor: Santosh Anagol

Household Finance in Emerging Markets

236. Eda Orakci (SEAS 2026)

Anna Vazhaeparambil (COL 2025)

Advisor: Duncan J. Watts

Teamwork Decoded: Developing Virtual Experiments

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237. Samantha Ouyang (SEAS, WH 2026)

Advisor: Jordan Raney

Multifunctional Modular Pneumatic Gripper

238. Daniella Oyenuga (COL 2026)

Advisor: Seema Bhatnagar

Neurobiology of Stress Resilience

239. Nikhita Pabbaraju (COL 2026)

Advisor: Levon Utidjian

Clinical Characteristics and Outcomes in Pediatric

Hypertension Using EHR Data

240. Yash Pahwa (COL 2025)

Johannah Iyasele (COL 2025)

Advisor: Mariella De Biasi

The Effect of Chronic Cannabidiol Administration on

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241. Pranav Palleti (SEAS 2026)

Advisor: Elizabeth Mcdonald

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242. Suraj Panara (COL 2025)

Advisor: Neil Sheth

Source of Research Funding for Studies on TKA or THA May Predict Citations or Online Popularity and

Correlate with Lower Study Quality

243. Rohan Panday (SEAS 2026)

Advisor: Joseph Kroll

Characterizing the Behavior of HVSS for EOS

244. Camila Castillo Paranhos (COL 2025)

Advisor: Julia Gray

Evolution of International Organizations

245. April Park (COL 2026)

Advisor: Gary Freedman

Prevalence of Sleep & Fatigue in Cancer Pre-Post

Radiation Treatment

246. Jun Hyun Park (SEAS 2026)

Advisor: Chamith Rajapakse

Web Development and Machine Learning for

Orthopedics

247. Malena Parrado (COL 2026)

Advisor: Michael Lampson

Variation Among Mus Species in de novo Paternal Pericentromeric Heterochromatin Formation

248. Ronit Patel (COL 2024)

Advisor: Kacy Cullen

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Neuroinflammatory Responses

249. Kamelija Patoska (COL 2026)

Advisor: Seema Bhatnagar

Habituation to Stressors in Animals with

Dysregulation of Sphingosine-1-phosphate Receptor

3 (S1PR3)

250. Danielle Peck (COL 2026)

Advisor: Joseph Rossano

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Complications

251. Beijia Peng (COL 2024)

Advisor: Dolores Albarracin

Processes and Consequences of Direct and Indirect Persuasive Messages on Recipients from Western

and Eastern Cultural Backgrounds

252. Sofia Perdomo (COL 2024)

Ashil Srivastava (COL 2025)

Advisor: Roy Hamilton

Modulating Working Memory with Transcranial Alternating Current Stimulation (tACS): Pilot Study for tACS as a Treatment for Neurodegenerative

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253. Ysabella Perez (COL 2026)

Advisor: Adriana Perez

Stress, Trust, and Health Care Among Older Latinos

254. Yoni Perla (COL 2024)

Advisor: Maayan Levy

AhR Ligands Modulate Gasdermin C In Vitro

255. Sarah Pham (COL 2024)

Advisor: Ethan Goldberg

Assessing Mechanisms of Brain Malformation in SCN3A Encephalopathy Using a Stem Cell-derived

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256. Liam Phillips (COL 2024)

Advisor: Brian Kim

In Search of a New Russian Readership: Communal Experience and Literary Form in Mikhail Kuzmin's

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257. Talyah Pierce (COL 2026)

Advisor: John MacDonald

Beyond the Clean-Up: An Analysis of the Relationship Between Litter and Gun Violence in Philadelphia

258. Alex Piven (COL 2026)

Advisor: Katie Barott

The Impact of Heat Stress on Temperate Coral

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259. Tanay Poddar (COL 2024)

Advisor: Hao Huang

Revealing the Language and Auditory Localization of White Matter Microstructures of the Preterm Human

Brain through Diffusion Tensor Imaging

260. Vidhur Polam (COL 2025)

Advisor: Frederick Bennett

Lipid Accumulation Leads to Reactive Macrophage

Pathology in Settings of GALC Dysfunction

261. Austin Pothikamjorn (COL 2025)

Advisor: Heath Schmidt

Characterizing the Efficacy of a GLP-1R Agonist to

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262. Jackson Powell (COL 2024)

Advisor: Yuanquan Song

The Mechanosensitive Ion Channel Piezo's Role in the

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263. John Purple (COL 2025)

Advisor: Bhuvnesh Jain

Intrinsic Alignment and Cosmic Shear

264. Elizabeth Qian (SEAS 2026)

Advisor: Ahmed Moustafa

CURED: Classification Using Restriction Enzyme

Diagnostics

265. Suya Que (SEAS 2026)

Advisor: Arnold Mathijssen

Behavior of Upstream Swimming E. Coli Bacteria in a

Microfluidic Environment

266. Rawan Rabayah (COL 2024)

Advisor: Marsha Lester

Volatile Organic Compounds in the Atmosphere

267. Maliha Rahman (COL 2025)

Advisor: Victoria Vetter

An Assessment of Need for Automatic External Defibrillators by Race, Socioeconomic Status, and

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268. Simran Rajpal (COL 2024)

Advisor: Robert Aronowitz

"Log Kya Kahenge": Understanding Perceptions of Risk, Genetic Testing, and Breast Cancer within the

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269. Rajat Ramesh (COL 2024)

Advisor: George Burslem

A Modular Tool for Targeted Editing of Post-

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270. Shruti Ramkumar (SEAS, WH 2026)

Advisor: David Hsu

Investigating University Spinoffs and Startup Success

through Patent Reassignments

271. Pallavi Rao (COL 2024)

Advisor: Amy Lutz

Reconstructing the Ab/Normal: The Cross-Cultural

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272. Ashley Ray (COL 2024)

Advisor: Katherine Moore

Mortuary Archaeology on the Northern Coast of Peru

273. Isha Reddy (WH 2025)

Advisor: Samir Nurmohamed

The Impact of Being an Alternate Choice on Feedback

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274. Reagan Reese (COL 2026)

Advisor: Katherine Theken

Effect of Ibuprofen on Interleukin Protein Levels

Following Third Molar Extraction

275. Aryan Roy (SEAS 2026)

Advisor: Ryan Urbanowicz

Using Residuals to Improve the FIBERS Algorithm

276. Sphia Sadek (COL 2025)

Advisor: Malek Kamoun

Developing Machine Learning Algorithm to Improve

Kidney Transplantation Matching

277. Ben Sailors (SEAS 2025)

Advisor: Yu Jun Tan

3D Printable and Self-Healing Green Hydrogel for Devices3D Printable and Self-Healing Green Hydrogel

for Devices

278. Alyssa Saito (COL 2026)

Advisor: Andrew Modzelewski

Role of Retrotransposon Reactivation in

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279. Hina Sako (COL 2026)

Advisor: David Raizen

Finding Genes Required for Sickness Sleep in C.

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280. Samantha Salcedo Martinez (COL 2025)

Advisor: Sade Bonilla

Uplifting Historically Marginalized Adults under G3's

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281. Xoshill Saldana Gamez (COL 2026)

Advisor: Mechthild Pohlschroder

Is IRF3 inside the nucleus in LACV infected 3D In Vitro

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282. Myka Salvacion (COL 2025)

Advisor: John Maris

Identifying the Effect of MYCN Downregulation on Chemokine Expression & PHOX2B CAR-T Cell Efficacy

283. Alex Savage (COL 2026)

Advisor: Marisa Bartolomei

Epigenetic and Physiological Outcomes in a Mouse Model of Assisted Reproductive Technologies

284. Helena Saven (COL 2026)

Lulia Tesfamariam (COL 2026)

Advisor: Rebecca Waller

Seeing Eye to Eye: The Relationship between

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285. Shand Seiffert (COL 2026)

Advisor: Elliot Lipeles

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286. Fatima Seisay (COL 2026)

Advisor: Elizabeth White

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287. Anthony Senouillet (SEAS 2026)

Advisor: Bomyi Lim

Examining the Role of Enhancers in Regulating Nuclear-Content-to-Cytoplasm Ratio-Dependent

Genes in Drosophila Embryos

288. Nitin Seshadri (COL 2025)

Advisor: Isaac Chen

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289. Miriam Shah (COL 2024)

Advisor: Warren Breckman

A 19th Century Polemicist in Paris

290. Thomas Sharrock (COL 2026)

Advisor: Molly McGlone

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291. Bassel Shawareb (COL 2026)

Advisor: Jennifer Orthmann-murphy

Haploinsufficiency of CSF1R in Microglia Alters the

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292. Madison Shelton (COL 2026)

Advisor: Audrey John

Understanding the Metabolic Pathway of Malaria

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293. Shiny Shen (SEAS 2026)

Advisor: Charlie Johnson

Analyzing Dirac Shifts in GFETs Functionalized with

Viral RNA

294. Alisha Shetty (COL 2025)

Advisor: Shaon Sengupta

Effect of Environmental Lighting on Circadian Gating

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295. Neha Shetty (COL 2024)

Advisor: Anne Teitelman

Investigating the Impact of Stigma and

Dehumanization on the Healthcare Engagement and Access of Unhoused Individuals: A Photo-elicitation

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296. Heejoon Shin (COL 2026)

Advisor: Ivan Dmochowski

Iron-Organic Contrast Agent for Xenon Biosensing

297. Hannah Shumsky (COL 2026) Isaiah Weir (COL 2026)

Advisor: Joshua Teplitsky

A Case Study of Digital Humanities: David

Oppenheim's Printed Texts and the History of Jewish

Books

298. Jackson Simpson (COL 2026)

Advisor: Kahlilia Morris-Blanco

TET Activation Decreases Post-Stroke Cell Death

299. Henry Sims (SEAS 2026)

Advisor: Ivan Dmochowski

Developing a Ribose Binding Protein FRET Sensor

300. Avinash Singh (COL 2024)

Advisor: Kelly Jordan-Sciutto

Characterization of Alternatively-spliced Isoforms in the PERK-coding Gene EIF2AK3 under ER Stress

301. Jasjeev Singh (COL 2026)

Advisor: Robyn Sanderson

Galactic Assembly in Different Dark Matter Models

302. Marcella Soewignjo (COL 2025)

Advisor: Marc Fuccillo

Exploring Functional Differences of the aDMS and

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303. Ella Sohn (COL 2026)

Advisor: Cary Coglianese
Al in the Administrative State

304. Leo Solga (COL 2026)

Advisor: Jen Ciaccio

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305. Caroline Solus (COL 2025)

Advisor: Eric Marsh

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306. Hyunwoo Song (COL 2024)

Advisor: Benjamin Nathans

The Function and Limitation of the Korean American Association of Greater Philadelphia 1989 - 2000

307. Lucie Song (COL 2025)

Klaudia Zalewska (NUR 2025)

Advisor: Aimin Chen

Metabolomic Profiles and Urinary Concentrations of Phenols and Phthalates in Mother-Infant Dyads

308. Shreya Sripada (SEAS 2026)

Advisor: Colin Ellis

Improving the Generalizability of Natural Language

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309. Ann Stettler (COL 2025)

Advisor: Liang Wu

Exploring Topological Materials via Mechanical and

Electro-Optical Methods

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310. Steven Su (COL 2026)

Advisor: Xiaolu Yang

Screening of TRIM Proteins Disaggregase Activities

on Ataxin-1[82Q] Aggregation

311. Liwa Sun (COL 2024)

Advisor: Jean-Michel Rabate

Existentialism versus Essentialism: Jia Zheng's

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312. Sydney Sun (COL 2024)

Advisor: Rebecca Waller

What Emotion Do You Hear? Paving the Way of

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313. Xueqi Sun (COL 2024)

Advisor: Michael Lampson

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314. Anoushka Swain (COL 2026)

Advisor: Matthew Hayes

Exploring Uncarboxylated Osteocalcin on Improving

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315. Eric Tao (COL 2025)

Advisor: Marc Schmidt

What Does the Cowbird Say? Social Modulation of

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316. Ezana Tedla (COL 2026)

Advisor: Kahlilia Morris-Blamco

The Ten-Eleven Translocase Epigenetic Enzyme Prevents Apoptosis and Brain Damage after Stroke

317. Timethius Terrell (COL 2024)

Advisor: Krista Cortes

Restricted Discourse: The Social Lives of Queer Thai

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318. Becka Terzakis (COL 2024)

Advisor: Aman Husbands

Identifying Critical Regulatory Targets and Binding Partners of the HD-ZIPIII Transcription Factor,

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319. Stephen Thomas (WH 2026)

Advisor: Andrew Edmondson

Validating CRISPR'd PMM Deficient Neurons for

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320. Defne Tim (COL 2026)

Advisor: Dawn Mechanic-Hamilton

Usability of a Remote App-Based Assessment of Cognition to Analyze the Effects of Parkinson's

Medication

321. Hertha Torre Gallego (COL 2024)

Advisor: Adam Mohr

Realities of Abortion Reform in Argentina

322. Inis Trifka (COL 2025)

Advisor: Emily Gregory

Medicaid Perinatal Payment Reform

323. Varun Trivedi (SEAS 2025)

Advisor: Michelle Johnson

Developing Soft Lossy Force Sensors for Detection of

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324. Wenxin Tu (COL 2024)

Advisor: Marc Fuccillo

Brain-wide Labeling of Neurons Contributing to Positive and Negative Reinforcement Strategies

325. Syraj Uddin (COL 2025)

Advisor: Nicholas Bentley

Food Preference Shift in C57BL/6 Mice Following

Exercise Endurance Protocol

326. Melissa Ulloa (COL 2025)

Advisor: Adeyinka Dayo

Systematic Review of Vascular Calcification in Diabetic Patients: Prevalence, Risk Factors, and

Clinical Implications

327. Aisha Uwamwezi (NUR 2025)

Willa Xun (NUR 2026)

Advisor: Brian Jenssen

Usability Testing for the Adolescent Health

Questionnaire: Exploring Confidentiality and Health

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328. Phoebe Vallapureddy (SEAS 2026)

Advisor: Jina Ko

Multiplexed Longitudinal Profiling of Living

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329. Diego Varela Lugardo (COL 2026)

Advisor: Irina Marinov

The Global Climate Security Atlas

330. Ananya Varshneya (COL 2025)

Advisor: Santosh Anagol

Household Finance Policy Research in South Africa

331. Abetzi Vazquez Ochoa (COL 2025)

Advisor: Cornelius Taabazuing Life or Death - Testing if N-terminal Degradation Activates the PIDDosome Complex

332. Isabella Velez (COL 2026)

Advisor: Erin Conrad Factors Predicting Length of Stay in Epilepsy Monitoring Unit

333. Eshu Venkataswamy (COL, WH 2026)

Advisor: Seema Bhatnagar Individual Rats' Stress Coping Mechanisms and Extinction of Fear

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334. Amy Vidal (COL 2024)

Advisor: Emily Balskus

Synthesis of Photocrosslinking Otilonium Bromide to

Study Drug-Microbe Interactions

335. Christina Volpe (COL 2024)

Advisor: Struan Grant

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