Anthropology

John Berry
The History of Megafires and Forest-Shrub Conversion Mentor: Christopher Roos

Ellie Pietsch
The History of Megafires and Forest-Shrub Conversion Mentor: Christopher Roos

Katie Tinch
Green Burial: The Final Disposition of Human Remains Through Alkaline Hydrolysis Mentor: Maryann Cairns

Biological Sciences

Sarach Bivans
“MeCP2 Duplication Syndrome” Mentor: Santosh D’Mello

Kristin Connors
“MeCP2 Duplication Syndrome” Mentor: Santosh D’Mello

Jennifer Edgar
“Sensitizing drug-resistant tumor cells to oxidative damage induced by anticancer chemotherapies that cause DNA-damage”. Mentor: Robert Harrod

Roxana Farokhnia
“Determining how kinase pathways regulate antioxidant signaling in virus-induced cancers” Mentor: Robert Harrod

Kasi Holocomb-Webb
“Establishment of Epigenetic Gene Silencing”. Mentor: Rick Jones

Maxwell Hum
“Establishment of Epigenetic Gene Silencing” Mentor: Rick Jones

Madeline Jensen
"Redox Signaling in the Endoplasmic Reticulum and Potential Impacts on Alzheimer's Disease (AD)"
Mentor: Bill Orr

Olivia Marx
"Dissecting the Role of Peroxiredoxin 6 in Alzheimer's Disease.” Mentors: Bill Orr, Vladimir Klishko, and Svetlana Radyuk
Rama Mouhaffel
“Dissecting the Role of Peroxiredoxin 6 in Alzheimer’s Disease.” Mentors: Bill Orr, Vladimir Klishko, and Svetlana Radyuk

Dakota Okwuone
“Dissecting the Role of Peroxiredoxin 6 in Alzheimer’s Disease.” Mentors: Bill Orr, Vladimir Klishko, and Svetlana Radyuk

Victoria Peters
“Optimizing Recombinant Expression of the Human Bresat Cancer Resistance Protein” Mentor: Pia Vogel
Fall Semester Only

Anika Reddy
“Optimizing Recombinant Expression of the Human Multidrug Resistance Protein” Mentor: Pia Vogel
Spring Semester Only

Samantha Sabour
“Reconstituting the Multidrug Resistance P-glycoprotein into Nanodisk Membrane Mimetics” Mentor: Pia Vogel

Marianna Astrid Therailkill
“Optimizing Recombinant Expression of the Human Multidrug Resistance Protein” Mentor: Pia Vogel

Brie Vandenburg
“Phosphazene Polymers Containing Antimicrobial Groups” Mentor: Patty Wisian-Nielsen

Chemistry

Becky Jenkins
“Molecular Mechanisms of Carcinogenesis by HTLV-1 Regulatory Proteins” Mentor: Rober Harrod

Jean Kim
“The Design, Synthesis, and Evaluation of New Carbapenem Antibiotics to Treat esistant Infections Caused by Resistant Gram negative Pathogens” Mentor: John Buynak

Alec Mason
“Understanding Cu/O2 activation pathways” Mentor: Isaac Garcia-Bosch

Byron Meshram
“A ”Chemical Nose” Test for Spice/K2 Cannabinoids and Synthetic Derivatives” Mentor: Alexander Lippert

Njeshi Nformi
“Phosphazene Polymers Containing Antimicrobial Groups” Mentor: Patty Wisian-Nielsen
Earth Science

Yasmin Jackson
“Dinosaurs and Diamonds: Dating a Caldera Lake Sediment that Contains Mammalian, Crocodylian, and Dinosaur Fossil Footprints” Mentor: Rita Economos

Josh Sylvester
“Result on the Water Table from Earthquake” Mentor: Matthew Hornback

Embry Human Rights

Aarthi Pavathaneni
“Embry Human Rights Study in Barriers to Education for Homeless Youth” Mentor: Bradley Klein

Mathematics

Xin Yang
“Predicting Electrostatic Properties of Solvated proteins Using Machine Learning”. Mentor: Weihua Geng

Physics

Ian Cohen
“A Teaching Lab to Illustrate the Concept of Electric Field & A Quality Control Measurement for the ATLAS Liquid Argon Calorimeter Upgrade” Mentors: James Thomas, Andy Lui, Jingbo Ye

Elijah Cruda
“A Teaching Lab to Illustrate the Concept of Electric Field & A Quality Control Measurement for the ATLAS Liquid Argon Calorimeter Upgrade” Mentors: James Thomas, Andy Lui, Jingbo Ye

Rebecca Moore
“Study of the Feasibility of Identifying the Process $H_0 \rightarrow gg$ via $g \rightarrow bb$ using the ATLAS Experiment at the Large Hadron Collider” Mentor: Stephen Sekula

Ahmed Muhammad
“A Teaching Lab to Illustrate the Concept of Electric Field & A Quality Control Measurement for the ATLAS Liquid Argon Calorimeter Upgrade” Mentors: James Thomas, Andy Lui, Jingbo Ye

Zhengguang Wang
“A Teaching Lab to Illustrate the Concept of Electric Field & A Quality Control Measurement for the ATLAS Liquid Argon Calorimeter Upgrade” Mentors: James Thomas, Andy Lui, Jingbo Ye

Taylor Wallace
Exploring the Effects of Environmental Factors on Radon Plate-Out Mentors: Jodi Cooley

Political Science

Polina DeClue
Barriers and Opportunities to Expand Russian Food Exports Mentor: Hiroki Takeuchi

Stephen Frantz
Global Value Chains, Free Trade Agreements, and Regional Security in the Asia-Pacific Mentor: Hiroki Takeuchi
Psychology

Kathryn Curtis
"Development and Validation of the Revised Meta-Emotions Scale" Mentor: Prescilla Lui

Stejara Dinulescu
"Self-Referential Memory and Social Cognition Study" Mentor: Benjamin Tabak

Page Hurley
Couples & Kids with Autism Study Mentor: Chrystyna Kouros

Zenia Jones
Couples & Kids with Autism Study Mentor: Chrystyna Kouros

Hannah Massman
"Testing the Strength of Associative Networks for Up-Regulation and Down-Regulation of Positive and Negative Affective Expectations for Exercise." Mentor: Austin Baldwin

Brendon Reems
Couples & Kids with Autism Study Mentor: Chrystyna Kouros

Sociology

Destiny Rose Murphy
"Constructed Political Identities: Candidate Webpages during the 2018 Election" Mentor: Sheri Kunovich

Statistics

Nicole Ng
"The Application of Meta-Analysis in Pediatric Cochlear Implants" Mentor: Lynne Stokes

World Language and Literature

Trina Sriram
"Spanish Women in the Fields of Art, Literature, Religion, and Science in the 16th and 17th Centuries" Mentor: Alicia Zuese