

Awarded 2017-2018 UROP Spring Recipients

Student PI(s) and Majors	Mentor	Title
Adams, Lindsay – Public Health	Scandlyn, Jean – Public Health	Relationship between food environment and food related behavior
Biryukova, Kateryna – Bioengineering/Math	Lammers, Steven – Bioengineering	Adjusting parameters of 3D bioprinter for primary neurons using SH-SY5Y cell line
Boyd, Rebekah – Biology/Pre-Health	Li, Meng – HBS	Effect of Socioeconomic Status on Emergency Department Length of Stay and Crowding
Breaslain, Tiffani – Photography	Vieira, Mariana – Photography	No Es Facil – An exploration of personal and political expressions in Cuba and the United States
Butler, Adrian – Art History/Film	Wang, Yang – CAM	The Power of Images: A Study of the Relationship between Society and Art Across the Ages
Cowie, Kim – Psychology	Bland, Sondra – Psychology	Effects of post weaning social isolation on the activation of oxytocin neurons in the paraventricular nucleus of the hypothalamus in male and female rats with a subsequent social encounter
Crawford, Courtney – Anthropology Hoth, Denise – Anthropology Oberdier, Roger Philosophy	Musiba, Charles - Anthropology	Ecomorphological analysis of Pliocene Ungulate Limb Bones from Tanzania
Davidjuk, Erast – Chemistry	Reed, Scott – Chemistry	Formation of Protein Coronas on Metallic Nanoparticles and Removal of Metallic Cores
Estes, Kelsey – Biology	Bruederle, Leo – Biology	Investigating evidence of myrmecochory in <i>Penstemon gracillis</i> Nutt. (Plataginaceae)
Gerstenberger, Ryan – Bioengineering	Hawkins, Stephen – SOM/C.Hospital Wagner, Jennifer – Bioengineering	3D Printed Custom Mask for Pediatric Sleep Apnea Therapy
Hake, Holly – Psychology Wood, River – Psychology/Biology	Greenwood, Benjamin – Psychology	The effects of MDMA (3,4-methylenedioxymethamphetamine) on fear memory reconsolidation for the treatment of posttraumatic stress disorder (PTSD)
Ho, Alexander – Bioengineering	Sliker, Levin – Assistive Tech Partners	Pressure Ulcer Prevention
Ibrahim, Oluwatosin – Biology	Greenwood, Benjamin – Psychology	Effect of physical activity on cricket behavior
Kang, Harmanpreet – Biology Evans, Marian – Psychology	Vajda, Alan – Integrative Biology	Historical Occurrence of Intersex in Fish
Kazemi, Karim – Sociology	Reich, Jennifer – Sociology	A Qualitative Study of Users' and Providers' Views on New HIV-Prevention Medications
Mattson, Cameron – Bioengineering	Park, Daewon – Bioengineering	Development of volume-changing shape memory polymer as a gutta percha filling material in root canals

Miller, Danielle – Chemistry	Lin, Hai – Chemistry	Computer modeling of a key step of influenza viral infection: Proton uptake by the M2 channel
Nguyen, Khoa – Art History	Wang, Yang – Art History	The Impact of Post-War Japanese Fashion on Contemporary New York Fashion Design
Nikulkova, Maria – Biology	Miller, Chris – Biology	Use of MinION in Genome Assembly of Wetland Archaea
Oviedo, Julianna – Chemistry	Knight, Jefferson – Chemistry	Determining granuphilin’s docking mechanisms through mutation of a membrane binding domain
Perez, Yovana – Psychology/Sociology	Reich, Jennifer – Sociology	Family Planning: A Content Analysis of Popular Women Magazines in English and Spanish
Pitsch, Chloe – Chemistry	Wang, Xiaotai – Chemistry	Computational Study of Olefin Metathesis Reactions with New Ruthenium Catalysts
Pool, Damon – Bioengineering	Jacot, Jeffrey – Bioengineering	Effects of maxtgrix composition on cell migration and viability on a poly(ethylene glycol)-fibrin heart patch
Romero, Jessica – Biology/French Sauerland, Hunter – Biology Emery, Walter – Electrical Engineering	Roane, Timberly – Integrative Biology	Multi-Dimensional Approach for Comprehensive Performance Improvement of Microbial Fuel Cell from Microbiological, Chemical, and Electrical Aspects
Salagovic, Cailey – Psychology	Leonard, Carly – Psychology	Crossmodal effects of irrelevant auditory stimuli on saccadic eye movement behavior
Schader, Carl – Math	Golkowski, Mark – EE	Modeling D Region Ionspheric Chemistry to Get Ionspheric Profile Dynamics During Solar Eclipse
Skinner, Austin – Chemistry	Resendiz, Marino – Chemistry	Reactivity between cisplatin and 8-oxo-7,8-dihydroguanosine – the missing link between oxidative stress on RNA and chemotherapeutic agents
Spotts, Timothy – Chemistry	Knight, Jefferson – Chemistry	Calcium Inhibition of SLP-2 C2A protein
Syed, Adnan – Public Health	Ferguson, Charles – Health Professions	Equity in the Pre-Health Application Cycle: An Analysis of Two Financial Assistance Programs
Than, Philong – Art History	Wang, Yang – Art History	Chinese landscape painting theory and its influence on bonsai and related arts
Wood, Robert – Bioengineering	Hunter, Kendall – Bioengineering	Changes in arteriole structure, composition, and stiffness with constant-flow left ventricular assistive devices in pulsatile and laminar flows

Awarded 2017-2018 UROP Fall Recipients

Student PI(s) and Majors	Mentor	Title
Bermudez, Beatriz - Mech Eng./Math	Sherk, Vanessa Dept. of Medicine	Effects of Diet-Induced Obesity on Skeletal Adaptions to Exercise
Castro Landeros, Odalis - Public Health/ Biochemistry	Wright, Clyde Medicine	Sex Differences in Endotoxin-Induced Neonatal Lung Injury: Insights into the Pathogenesis of Bronchopulmonary Dysplasia
Durr, Jessica – Bioengineering	Smith, Bradford Bioengineering	Stereological analysis to determine the structural basis for loss of gas exchange in asthma.

Elliott, Kaitlyn - Biology/Leadership Studies	Mosier, Annika Biology	Understanding How a Student Drawing Activities Facilitate Learning in Microbiology
Gras, Andrew - Electrical Engineering	Golkowski, Mark – Electrical Engineering	Non-Invasive Blood Glucose Measurement
Gunselman, Karl - CAM	Daniels, Chris Music - CAM	An Investigation of the European Union’s Live Music and Audio Engineering Industry
Jacobs, Connor – Biology	Miller, Chris Integrative Biology	Using Whole Genome Amplification to Improve Genome Assembly of Underrepresented Microbes From Metagenomic Samples
Johnson, Amber - Psychology/Biology	Leonard, Carly Psychology	Examining the Individual Differences Between Priming of Pop-out and Working Memory Capacity
Ketcham, Katherine – Biology	Deane, Kevin Dept. Medicine	Research Participation Influences (RPI)
Khong, Jennifer - Psychology/Biology/Philosophy	Albeck, Dave Psychology	DNA Methylation Influence on Oxytocin Gene Receptor
Kiselevach, Matthew – Bioengineering	Smith, Bradford Bioengineering	A numerical method for elucidating the chest wall’s non-linear elastic contribution to respiration
Konz, Tish – Computer Science	Banaei-Kashani, Farnoush CEAS	Simultaneous Localization and Mapping
McGrath, Kyle - Electrical Engineering	Connors, Dan EE	Deep Learning Research for Assisting Customers with Disabilities at Shopping Centers
Mitchell, Matthew – Biology	Phiel, Christopher Biology	The Effect of Vitamin C on FTO Demethylatory Functions With Respect to ESCs mRNA
Patel, Vrajen – Bioengineering	Smith, Bradford Bioengineering	The Spatiotemporal Airway Pressure Distribution During Manual Jet Ventilation
Pott, Michaela – Bioengineering	Benninger, Richard Bioengineering	Applying Optogenetics to Look at Ca ²⁺ Regulated Transcription Factors in Beta Cell
Wheeler, Brandi – Biology	Tombback, Diana Biology	Determining Quantitative Value of Vegetation Cover and Deadfall Using Photography