

Winter - Spring/Summer 2024 Students Offered UROP Funding

First name	Last name	Project Title	Faculty Mentor Name	Faculty Mentor Department
Bassil	Adam	Targeted remodeling of the islet extracellular matrix with a branched peptide PD-1 agonist as immunotherapy for Type 1 Diabetes (T1D)	Andrew Lipchik	Pharmaceutical Sciences
Marcus	Akrawi	Detecting Cancer Cells Based on Stiffness Measured by Atomic Force Microscopy and Brillouin Microscopy	Jitao Zhang	Biomedical Engineering
Hesham	Aldhaibani	Cavitation is the source of knuckle cracking sound	Cameron Bass	Biomedical Engineering
Clare	Barrette	The Impact of Caregiver Emotion Regulation on the Relationship between Adolescent Emotion Regulation and Posttraumatic Stress Symptoms among Violence-Exposed Youth	Valerie Simon	Psychology
Dhruval	Bhatt	Disordered brain network dynamics in schizophrenia investigated using graph theory, clustering and estimated entropy	Jennifer Ballard-Traynor	Psychiatry and Behavioral Neurosciences
Austin	Burns	Understanding and Improving Truthfulness in LLM's	Dongxiao Zhu	Computer Science
Morgan	Burt	Not Just "Pronoun People": The Effects of Misgendering in the Workplace	David Merolla	Sociology
Amani	Chowdhury	Texture analysis of muscle MRI images as a monitoring biomarker signature in patients with polyneuropathies	Yongsheng Chen	Neurology
Callie	Collins	A Spin on StrayCats	Renee Ludlam	Physics and Astronomy
Joseph	Cook	How to Wave	Brian Kritzman	Art, Art History, and Design
Joseph	Crachiola	A Discrete Pizzetti Formula and Applications to Digital Image Reconstruction	Fernando Charro	Mathematics
Finnley	Culhane	A Genocide in North America	Karen Marrero	History
Michelle	Durham	Clay and the Inner Child: An Interactive Experience	Jessika Edgar	Art, Art History, and Design
Jacob	Eickhoff	Development of a Technique for Assembly of Capsule-Based, Vascularized Tissue Using a F.R.E.S.H. Bioprinting Method	Howard Matthew	Chemical Engineering & Materials Science
Amal	Elsaleh	Synthesis and Biological Approaches of Caged Sugars to Regulate Protein Modifications	Charlie Fehl	Chemistry
Veronica	Fahmi	The perception of pain with IUD insertion: A potential barrier to initiation and continuation of IUD usage	Rick Zimmerman	College of Nursing
Klaus	Friedrich	Parasocial Interaction and Politics for Young Adults in 2024	Zachary Brewster	Sociology
Nour	Ghosn	Parental Knowledge about Adolescent Peer Victimization: Contextual Variations and Effects on Youth Anxiety	Hannah Schacter	Psychology

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Dillon L.	Glenn	Incentives and attrition in a web-based intervention for smoking cessation	Seung Hee Choi	College of Nursing
Julia	Grillo	Bacterial Ribonucleoprotein-bodies (BR-bodies) switch from mRNA decay to mRNA storage in stationary phase in <i>Caulobacter crescentus</i> .	Jared Schrader	Biological Sciences
Mark	Grove II	A Strong Hand, A Strong Body: An Analyses of Hand Grip Strength and Wellbeing in College Students	Tamara Hew-Butler	Kinesiology, Health and Sport Studies
Jenna	Hijawi	How Maternal Depressive Symptoms Impact Infant Development Amongst Immigrant or Refugee Arab American Families	Dalia Khalil	College of Nursing
Zainab	Hussain	Economic Analysis of the Dissolution of the Former Yugoslavia	Brad Roth	Political Science
Alexander	Jakubiec	Air Pollution on the Brain: How PM2.5 Affects Anxiety, Depression, and Brain Circuitry in Metro-Detroit Adolescents	Hilary Marusak	Psychiatry and Behavioral Neurosciences
Nathan	Keesee	THE PRISON REBIRTH	Charles Klahm	Criminology and Criminal Justice
Zakaria	Khan	Neuronal and synaptic response in the Auditory Cortex following peripheral chemical sensorineural damage in mice	Zhengqing Hu	Otolaryngology HNS
Ava	Mac	Exploring Withdrawal Effects of a Novel MDMA Derivative in a Rodent Model: A Behavioral Analysis.	Shane Perrine	Psychiatry and Behavioral Neurosciences
Yusra	Mahmood	The effect of social media usage and violence exposure on mental health outcomes among pre-adolescents	Tanja Jovanovic	Psychiatry and Behavioral Neurosciences
Matthew	Maliskey	Synthesis and Applications of Nitric Oxide Releasing Polymers for Inhaled NO Therapy	James Bour	Chemistry
Archana	Matheswaran	Characterization and optimization of Disulfiram as an antifungal agent	Robert Akins	Biochemistry, Microbiology, and Immunology
Noor	Mian	Development of a Histone H4 Peptidomimetic Inhibitor of Histone Synthesis as an Anti-Cancer Therapeutic	Andrew Lipchik	Pharmaceutical Sciences
Ryan	Mirhosiny	The anti-bacterial defense in immune cells in response to the bacterial protein flagellin	Pei-Chung Lee	Biological Sciences
Haley	Puri	Queer Soundscapes	Laura Foxman	Art, Art History, and Design
Dia	Rahman	Synthesizing Ancillary Ligands to Form Tetradentate Complexes with Ruthenium (II)	Jeremy Kodanko	Chemistry

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Syed	Raza	Lottery Manager vs. Gambler in Crisis: A Game Theoretical Approach	Fernando Charro	Mathematics
Maryam	Saleem	Interrogating Single-Cell Database to Identify Ion Channels in Dorsal Spinal Cord Neurons	Alexander Gow	CMMG
Adura	Sogbesan	Predictors of Emergency Department utilization among urban, community-recruited heroin users	Eric Woodcock	Psychiatry and Behavioral Neurosciences
Jacob	Spaulding	Does Elevating Manganese in the Diet Affect the Lifespan and Locomotion of Adult Drosophila Expressing a-Synuclein Mutant Proteins?	Mark VanBerkum	Biological Sciences
Amanda	Stockton	History by the Bottle: An Historical Archaeological Analysis of Glass Beverage Bottles from the Gass Saloon Trash Dump, Hamtramck, Michigan	Krysta Ryzewski	Anthropology
Subas	Subedi	Deep sea exploration through dynamic jet propulsion	Yara Almubarak	Mechanical Engineering
Rayyan	Syed	Response of PIK3CA Transfected Cells to Tunicamycin and their Role in Endoplasmic Reticulum Stress	Michael Wilson	Oncology
Alexandar	Trendov	AAV-Mediated PLP Regulation in a Mouse Model of PMD	Alexander Gow	CMMG
Sidharth	Veluthakkal	Imaging-guided automatic cell alignment for Brillouin flow cytometry	Jitao Zhang	Biomedical Engineering
Jack	Wallace	Spring into Action: Using Springs to Assist Stroke Gait	E. Peter Washabaugh	Biomedical Engineering
Andrew	Yaldo	Determination of pKa Values for a Collection of Synthetic Modified Nucleobases	Christine Chow	Chemistry