

Posters:

Arts/Humanities/Social Sciences

Angelique Dueñas Mapping the Body: Poetry and Anatomical Art New Student Exhibit Merges Humanities and Sciences in Higher Education Collaboration Mentor: Dr. Danielle Royer

Lea Ziegler Inclusionary Practices in the Classroom Mentor: Dr. Amy Boele

Brandan Rader Model Behavior: The Investigation Into Behaving How You Want Mentor: Dr. Katherine <u>Goodman; Dr. Lindsey Hamilton</u>

Biomedical Science

Damon Pool Optimization of a human induced pluripotent stem cell derived cardiomyocyte differentiation method to increase reliability and efficiency for downstream applications Mentor: Dr. Jeffery Jacot

Alexander Morales Porngraphy: How Chronic Exposure Alters the Brain Chemistry and Neuronal Networks of Males Mentor: Jessica Luna





Kim Cowie (UROP 2017-2018 recipient) Oxytocin Neurons in the Paraventricular Nucleus of the Hypothalamus of Male Rats exposed to Postweaning Social Isolation and Conditioned Social Fear Mentor: Dr. Sondra Bland

Engineering and Math Zeinab Mohammadi Real time spike clustering for electrophysiology recording Mentor: Tim Lei

Jacqueline Chavez, Anne Lyons, Ean Peterson, Jonathan Platt, Ian Garvin, Michel Manzanares, Mikala Mueller, Sarah Lamb Craniotomy Training Devices with Reusable Thermoplastics to Help Train Emergency Room and Trauma Surgeons Mentor: Craig Lanning

Kyle McGrath (UROP 2017-2018 recipient) Exploring Recurrent Neural Networks (RNNs) to Recognize Human Gestures in Edge Computing Environments Mentor: Dr. Dan Connors



Natural and Integrated Sciences Lindsay Adams (UROP 2017-2018 recipient) Exploring a Food Environment and Food Related Behavior in Skagway, Alaska Mentor: Dr. Jean Scandlyn

McCall Calvert Adaptive coupling of diapause phenotypes in the apple maggot fly, Rhagoletis pomonella Mentor: Dr. Gregory Ragland

Chloe Pitsch (UROP 2017-2018 recipient) Computational Study of Olefin Metathesis Reactions with New Ruthenium Catalysts Mentor: Dr. Xiaotai Wang

Orals:

Science, Technology, Engineering, and Mathematics Katherine Kissler Opening the Black Box: A novel Classification of Prolonged Labor Phenotypes Mentor: Dr. Nancy Lowe

Baris Aydintug*, Mikias Negussie, Adam Duster, Christina Garza (*UROP 2018-2019 recipient) Proton Transport in E. coli CLC Transport Protein by Combined QM/MM Calculations Mentor: Dr. Hai Lin

University of Colorado Denver Congratulations the 2018 RaCAS Award Winners

Nicolette Moya*, Margaret Tanner, Jennifer Jaime*, Estaban Loetz, JKP Davis, Holly Hake (*UROP 2018-2019 recipient) The role of mTOR signaling in enhanced fear extinction produced by acute, voluntary exercise Mentor: Dr. Ben Greenwood

Arts, Humanities, and Social Sciences Ji Yoon Social Consciousness in Youth: Civic Engagement in Community and Career Mentor: Dr. Donna Martinez

Gracie Finnigan-Fox Two Roads, Converged: Health and the Intersection of Work and Family for Mothers Mentor: Dr. Adam Lippert

Jessie Hawk A Panel on LGBT-centric Fiction Writing Mentor: Dr. Joanna Luloff

Emerging Scholars:

Beatriz Bermudez Osteogenic Response to Exercise with Obesity (OREO) Mentor: Dr. Vanessa Sherk

Rebekah Boyd (UROP 2017-2018 recipient) Effect of Socioeconomic Status on Emergency Department Length of Stay and Crowding Mentor: Dr. Meng Li



Magdelana Carr (UROP 2018-2019 recipient) Modifying nucleosides using bromobenzothiophene as a photo active probe Mentor: Dr. Marino Resendiz

Chelsea Charley-Suarez Phylogenetic delineation and geographic distribution of Laccaria nobilis and phenotypic relatives. Mentor: Dr. Lindsey Hamilton; Dr. Andrew Wilson

Jazmyne Davis*, Nicolette Moya*, Margaret Tanner, Jennifer Jaime* (*UROP 2018-2019 recipient) The Importance of mTOR Signaling in Fear Extinction Augmented by Acute Voluntary Exercise. Mentor: Dr. Ben Greenwood

Mitchell Deans, Sarah Vanderpool, John Bonet, Derek Chavez, Alena Uchaykin International Design-Build Community Center in Nicaragua Mentor: Dr. Joan Vanderburg and Dr. Maria Delgado De Leon

Julia Deyanova, Adam Duster Ion Solvation and Transport in EC and EMC Electrolyte Batteries Mentor: Dr. Hai Lin



Hassan El-Batal*, Isha Kanu, Hend Elzarad, Zachary Johnson, Christian Padgett, Luis Rodriquez, Yapheth Wolday (*UROP 2018-2019 recipient) EL Mano: A Method for Designing a Realistic and Practical Intravenous (IV) Training Arm Mentor: Craig Lanning

Adam Goldstein (UROP 2018-2019 recipient) Attention Through Learning: An electrophysiological investigation of intertrial priming in visual search Mentor: Dr. Carly Leonard

Daniel Hernandez Altamirano*, Joseph McNabb, Paige Barrette (*UROP 2018-2019 recipient) Variations in Migraine Treatment Methods Used by Socioeconomic Status Mentor: Dr. Amy Wachholtz

Ven Higginbottom Queer Influences in Horror Mentor: Dr. Joanna Luloff

Dominic Isaacs Dopamine signaling modulation following administration of heroin and opioid agonist treatment Mentor: Dr. Erik Oleson



Tanja Kovacevic*, Danielle Miller* (*UROP 2018-2019 recipient) A Computational Study of the Villin Headpiece Subdomain HP-36 Mentor: Dr. Hai Lin

Julianna Oviedo, Ami Alnaas, Abena Watson-Siriboe (UROP 2017-2018 recipient) Determining Granuphilin's Docking Mechanisms Through Mutation of a Membrane Binding Domain Mentor: Dr. Jeff Knight

Lewis Sammons, Jordan Stein, Christopher Renden Shared Rapid Prototyping Space using Hand Tracking and Virtual Reality Mentor: Dr. Min Choi

Timothy Spotts (UROP 2017-2018 recipient) An Investigation of the Mechanism behind Calcium-Inhibited Membrane Binding by the C2A Domain of Synaptotagmin-Like Protein 2 Mentor: Dr. Jeff Knight

Sahitya Talachutla, Jordan Reichers Titration of Acidic Juices for Citric Acid and Ascorbic Acid Mentor: Rebecca Cherry



Nick Zawadzki, Robert Jenkins, Shreemathi Harikrishnan, Ruba Sus, Vrajen Patel, Jasmine Gomez Corona, Andrew Barron Improving Blind Hockey Players Ability to Locate the Puck Mentor: Dr. Cathy Bodine

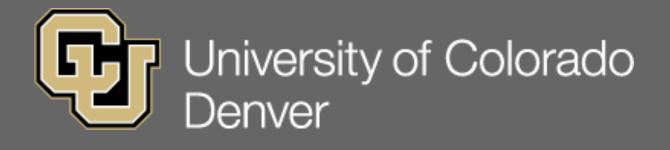
Anastasia Zhivotov, Elizabeth Pansing Age-Height Regression Models for Regenerating Conifers in the Greater Yellowstone Area Mentor: Dr. Diana Tomback

Diversity and Inclusion Award:

Grace Wagner Subtle and Overt Representation of LGBTQ+ Issues in Fiction and Poetry Mentor: Dr. Joanna Luloff

Interdisciplinary Award:

Adnan Syed (UROP 2017-2018 recipient) Equity in the Pre-health Application Cycle: an Analysis of Two Financial Assistance Programs Mentor: Dr. Charles Ferguson



People's Choice Undergraduate:

Kathleen Nguyen Targeted Fluorescent Detection and Thermal Ablation of Bladder Cancer with Functionalized Gold Nanorods Mentor: Dr. Jared Brown

People's Choice Graduate:

Ian Stewart Development and Incorporation of Virtual Pathology Slides with Instructor Simulation Tools in Pathology Residency Training and Histology Education Mentor: Dr. Lisa Lee

Best Organized Mini-Symposium:

Michael Pilosov Cutting the Equations Mentor: Dr. Troy Butler