

Africana Studies

Student: Kara Barnes Mentor: Christel Temple

UC 310 1:45 -- 2:00 "Qualitative Implications of Heritage DNA Testing: africanancestry.com"

American Studies

Student: Maddy Fickes Mentor: Edward Orser

UC 312 2:30 -- 2:45 "Protesting Prodigies or Apathetic Academics?"

Ancient Studies

Student: Clare Ryan Mentor: Carolyn Koehler

UC 312 2:15 -- 2:30 "Propaganda and Character: Flavian Sculpture in the Roman Empire"

Biological Sciences

Student: Anthony Allen Mentor: Janice Zengel AM Poster Session UC Ballroom 9:30 – 11:30

"Selecting for Troleandomycin Resistant Mutants in Deinococcus Radiodurans"

Student: Lorraine Beraho Mentor: Taifa Hibbert PM Poster Session UC Ballroom 1:00 – 3:00 "The Utility of a Cytosensor for Measuring Glucose Oxidation in Myotubes"

Student: LaToia Bryant Mentor: Janice Zengel PM Poster Session UC Ballroom 1:00 – 3:00 "Characterizing L4 and L22 Mutations in E.coli Strains Resistant to Oleandomycin Triacetate"



Student: Melanie Chavez Mentor: John McLenithan AM Poster Session

UC Ballroom 9:30 – 11:30 "Lactoferrin-Dependent Activation of MAP Kinase Pathways in Human Adipose Tissue and Intestinal Epithelial Cells"

Student: Koriand'r Conyers Mentor: Stephen Miller AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Foyin Fasanmi Mentor: Rachel Brewster AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Adrian Feijoo Mentor: Anne Hamburger

PM Poster Session UC Ballroom 1:00 – 3:00

Student: Albert Forero

Mentor: Suzanne Rosenberg

PM Poster Session UC Ballroom 1:00 – 3:00

Student: Marcus Gillis Mentor: Phyllis Robinson

AM Poster Session UC Ballroom 9:30 – 11:30

Student: Yara Haddad Mentor: John Kloetzel PM Poster Session UC Ballroom 1:00 – 3:00 "Analysis of GFP-GlsA Fusions in Live Volvox Embryos"

"The Role of N-Cadherin and the Planar Cell Polarity (PCP) Pathway in Posterior Axis Morphogenesis"

"Heregulin-Mediated Breast Cancer Cell Growth Is Maintained Despite Overexpession of the Ebpl Transcriptional Repressor"

"Tumor Cells can be Genetically Modified to Activate a Tumor-Specific Immune Response: Upregulation of MHC II and Downregulation of MHC II-Associated Invariant Chain in a Mouse Tumor"

"An Exploration of Melanopsin's Function Through Site-Directed Mutagenesis"

"Reassessing the Phylogeny of Euplotes Ciliates Using Ribosomal Gene Sequences"



Student: Uzoma Iheagwara

"Myeloid Suppressor Cells Inhibit Activated T Lymphocytes"

Mentor: Suzanne Ostrand-Rosenberg

PM Poster Session UC Ballroom 1:00 – 3:00

Chemical Engineering

Student: Cameron Bardliving

Mentor: Leah Tolosa PM Poster Session UC Ballroom 1:00 – 3:00 "Long-Lived, Long-Wavelength Luminophores for Immunosensing Applications"

Student: Anton Geisz Jr. Mentor: Theresa Good

UC 312 9:15 -- 9:30 "Development of an Organophosphate Neurotoxin Sensor"

Student: Thomas Hsu Mentor: Leah Tolosa AM Poster Session UC Ballroom

9:30 – 11:30

Student: Mustapha Jamal Mentor: Charles Eggleton

PM Poster Session UC Ballroom 1:00 – 3:00 "Calculation of Dye-labeled Protein Structure by Biological Computational Modeling for Fluorescent Biosensor Design"

"Effects of Non-Linear Membrane Elasticity on Capsule Deformation Under Extensional Flow"

Student: Debora Lin Mentor: Leah Tolosa PM Poster Session UC Ballroom 1:00 – 3:00 "Fluorescence Detection of Glucose/Glutamine Based on Glucose/Glutamine Binding Protein Immobilized on Dextran Modified Glass Capillary"



Student: Lauren Smalls-Mantey

Mentor: Leah Tolosa PM Poster Session UC Ballroom 1:00 – 3:00 "FRET-based Glucose Monitoring for Bioprocessing"

Chemistry and Biochemistry

Student: Nerg AchiriMofor Mentor: Michael Summers

PM Poster Session UC Ballroom 1:00 – 3:00 "Studying the Protein-Protein Interactions Involved in HIV-1 Assembly"

Student: Anthony Agyapong Mentor: Renty Franklin PM Poster Session UC Ballroom Oral Presentation

UC 312 9:30 -- 9:45 "Effect of Zinc on Ros Production In Prostate Carcinoma DU145 Cells"

Student: Rahel Birru Mentor: Rachel Brewster AM Poster Session UC Ballroom 9:30 – 11:30 "Characterization of Neural Tube Defects in the bpb Mutant Embryos"

Student: Stephanie Buckley Mentor: Stephen Miller PM Poster Session UC Ballroom 1:00 – 3:00 "Characterization of rlsD, a Paralog of a Master Cell-fate Determination Gene in the Green Alga Volvox carteri"

Student: Joseph Castellano Mentor: Phyllis Robinson AM Poster Session

UC Ballroom 9:30 – 11:30 "Investigating the Role of the Chloride Binding Site (H181) in the Activation of Green Human Cone Opsin by Site-Directed Mutagenesis"



Student: Luis Cocka

Mentor: Katherine Seley-Radtke

PM Poster Session UC Ballroom

"Design and Synthesis of Isoadenosine Analogues as Potential Inhibitors of S-Adenosyl-L-homocysteine Hydrolase"

Student: Margaret Dabek

Mentor: Ramachandra Hosmane

UC 312 1:45 -- 2:00 "Artificial Blood Based on Cell-Free Hemoglobin"

Student: Amanda De Four Mentor: Michael Summers

AM Poster Session UC Ballroom 9:30 – 11:30 "Structural Determination of the FeLV psi-site RNA Packaging Signal Bound to the Nucleocapsid Protein"

Student: Tebebeyesus Defaru Mentor: Bradley Arnold

PM Poster Session UC Ballroom 1:00 – 3:00 "A General Synthetic Route to Cyclobutadiene Derivatives"

Student: Ayanna Flegler Mentor: Abdu Azad PM Poster Session UC Ballroom

1:00 – 3:00

"Differential Gene Expression in Cultured Rodent Malaria Parasite"

Student: Amber Gaither Mentor: Rachel Brewster

PM Poster Session UC Ballroom 1:00 – 3:00

1:00 - 3:00

"Analysis of E-cadherin Missexpression in the Developing Neural Ectoderm"

Student: Melat Garedew Mentor: Ashiwel Undie PM Poster Session UC Ballroom

"Xenobiotic Effects on Microtubule Morphology"



Student: Frank Gooden Mentor: Paul Smith PM Poster Session UC Ballroom 1:00 – 3:00

"The Role of Metal Binding in Topoisomerase Inhibition by UK-1 and Analogs"

Student: Paul Hoover Mentor: Joel Liebman AM Poster Session UC Ballroom 9:30 – 11:30 "Trends in the Entropies of Diatomic Gallium and Indium Compounds"

Student: Andrew Kohlway Mentor: Daniele Fabris PM Poster Session UC Ballroom 1:00 – 3:00 "Structural elucidation of HIV-1 Packaging Signal"

Student: Matthew Loftus Mentor: Lisa Kelly

UC 312 9:45 -- 10:00 "Laser-Stimulated Raman Spectroscopy as a Method for Remote Atmospheric Sensing Technology"

Student: Candace Mainor Mentor: Jodi Flaws AM Poster Session UC Ballroom 9:30 – 11:30 "The Aryl Hydrocarbon Receptor (AhR) May Alter Cytochrome P450 Enzyme Levels in the Mouse Ovary"

Student: Donnetta McFadden Mentor: Jia Bei Wang AM Poster Session UC Ballroom 9:30 – 11:30 "Determination of PKCI Localizations in Mouse Central Nervous System by Immunohistochemistry Techniques"

Student: Nguyen Nguyen Mentor: Michael Summers PM Poster Session UC Ballroom

1:00 - 3:00

"Identification of the Protein-Protein Interaction Between Gamma-subunit of Cellular Adaptor Protein-3 and HIV-1 Matrix Protein"



Student: Khadijatou Njimoluh Mentor: Michael Summers

PM Poster Session UC Ballroom 1:00 – 3:00 "Drug Interactions with The N-terminal Domain of HIV-1 Capsid"

Student: Stephanie Núñez Mentor: Anandarup Gupta

UC 312 2:00 -- 2:15 "Characterization of the Focal Adhesion-associated Protein Leupaxin in Prostate Cancer Cells"

Student: Frances Onyimba Mentor: Margaret McCarthy AM Poster Session

AM Poster Session UC Ballroom 9:30 – 11:30 "Estradiol Activates Phosphatases in the Developing Hypothalamus"

Student: Sang Park Mentor: Colin Garvie AM Poster Session UC Ballroom 9:30 – 11:30 "Structural Study of Nuclear Factor Y (NF-Y) Complex"

Student: Irene Pastis

Mentor: Ramachandra Hosmane

PM Poster Session UC Ballroom 1:00 – 3:00 "Synthesis of Ring Expanded Nucleoside Analogues for Inhibition of the Hepatitis B and C Viruses"

Student: Adjoa Smalls-Mantey Mentor: Michael Summers

PM Poster Session UC Ballroom 1:00 – 3:00 "Composition and Sequence-Dependent Binding of RNA to the Nucleocapsid Protein of Moloney Murine Leukemia Virus"

Computer Engineering

Student: Hasina Jamal Mentor: Iordan Kostov

UC 312 1:30 -- 1:45 "Fluorescent O2-sensors Prepared Using Silica Nanoparticles"



Student: Vlad Seghete Mentor: Curtis Menyuk

UC 310 11:30 -- 11:45

Student: Andrew Wilson Mentor: David Bourner AM Poster Session UC Ballroom 9:30 – 11:30 "Solitons in Birefringent Optical Fibers: A Dynamical Systems Perspective"

"Development of an Effective, Inexpensive Autonomous Ground Vehicle"

Game Developer's Club

Programming: Eric Jordan Andrew Hunt Charles Bushong James Lee Craig Lewis

Mercury Programming: Josh Allen

Charles Lohr

Website Design: Daniel Mirchandani

Art:

Robert Jones Kiran Sudhakara Adam Petrone Marcus Lepage Chris Conley Patrick McNeely Arthur Gould

Sound Effects: Kenny Trimmer "Video Game Development: Scarred Steel"



George Aninwene II

Mentor: Penny Rheingans UC Ballroom 9:30 – 11:30 am 1:00 – 3:00 pm

Dance

Student: Amy Baumgarten

Mentor: Doug Hamby

Dance Studio 11:40 -- 12:00

Student: Jenifer Dobbins

Mentor: Doug Hamby

Dance Studio 10:00 -- 10:20

Student: Elina Mavashev

Mentor: Doug Hamby

Dance Studio 10:40 -- 11:00

"Begin By Looking Inward"

"By the Gate at Dawn: A Study and Reinterpretation of Limon Dance Technique"

"White Mountain Summer Dance Festival: Tears of a Clone"

English

Student: Katherine Furgol Mentor: Piotr Gwiazda

LIC 212

UC 312

10:30 -- 10:45

Student: Kirsten Ederer

Mentor: Gail Orgelfinger

UC 312

11:00 -- 11:15

"Dwelling on The Floor of Heaven: An Analysis of John Tranter's Verse Novel"

"The Evolution of Enitharmon Through Pity"



Student: Asynith Palmer Mentor: Christoph Irmscher

UC 312 11:30 --11:45 "Faulkner's French Appeal: A Historically Contextualized Perspective"

Geography and Environmental Science

Student: Ramya Ambikapathi Mentor: Christopher Swan

PM Poster Session UC Ballroom 1:00 – 3:00

Student: Michael Dunbar Mentor: Christopher Swan

AM Poster Session UC Ballroom 9:30 – 11:30

Student: Corrie Maxwell Mentor: Christopher Swan

PM Poster Session UC Ballroom

Student: Lie`Ann Van-Tull Mentor: Christopher Swan

UC 310 1:30 – 1:45

Student: Ryann Williams Mentor: Christopher Swan

UC 310 2:00 -- 2:15 "Decay of Organic Matter in Eastern Deciduous Forests: Impact of Invasive Tree Species"

"Aquatic Insect Feeding on Speciose Leaf Litter is Altered by Predation Pressure"

"Coupled Consumer and Resource Biodiversity Effects on Ecosystem Functions"

"Implications of Transgenic Corn Cultivation on the Ecology of Streams"

"The Effect of Species Leaf Litter on Tri-trophic Interactions in a Detritus-based Stream Ecosystem"



Geography

Student: Corrie Maxwell Mentor: Christopher Swan

PM Poster Session UC Ballroom

"Coupled Consumer and Resource Biodiversity Effects on Ecosystem Functions"

History

Student: Shayla Donmoyer

Mentor: Amy Froide

UC 312

11:15 -- 11:30

"Women's Writing and the Querelle des Femmes"

Information Systems

Student: Sumita Das Mentor: Wayne Lutters

PM Poster Session

UC Ballroom 1:00 – 3:00

Student: Christine Medina

Robert Lyv

Mentor: Redding

UC 310

11:15 -- 11:30

"Improving Software Maintenance Through Better Documentation"

"Enhancing Literacy Promotion through a Web-Based System"

Interdisciplinary Studies

Student: Jacqueline Ann Little

Mentor: Jodi Kelber-Kaye

Dance Studio 11:00 -- 11:20

Student: Erin Pressman Mentor: Dianna Thayer

UC 312

10:00 -- 10:15

"Women and Body Hair: An Intimate Relationship"

"Intercultural Communication Through Theater: Bilingual Performance"



Student: Wambui Wamae - Kamiru

Mentor: Leslie Morgan

UC 312

10:15 -- 10:30

"The Importance of Role Model Influence on Goal Achievement Among Kenyan Women"

Mathematics

Student: Michael Childers Mentor: Kathleen Hoffman

UC 310

11:00 --11:15

Student: Brian Krummel Mentor: John Zweck

UC 310 2:30 -- 2:45

Student: Sherika Sylvester Mentor: Michael Summers

UC 310

2:45 -- 3:00

Student: Kushal Mehta Mentor: Eric Perlman PM Poster Session

UC Ballroom 1:00 – 3:00 p.m.

Student: Hasina Jamal Mentor: Iordan Kostov

UC 312 1:30 -- 1:45

Student: Vlad Seghete Mentor: Curtis Menyuk

UC 310

11:30 -- 11:45

"Direct Methods in Calculus of Variations: An Application To Rod Mechanics"

"The Analysis of Curvatures of Discrete Surfaces with Boundary"

"Capsid and p12 Interactions during Maturation of Murine Leukemia Virus"

"The X-ray Emission from the HH212 Region"

"Fluorescent O2-sensors Prepared Using Silica Nanoparticles"

"Solitons in Birefringent Optical Fibers: A Dynamical Systems Perspective"



Student: Andrew Wilson Mentor: David Bourner AM Poster Session UC Ballroom 9:30 - 11:30

"Development of an Effective, Inexpensive Autonomous Ground Vehicle"

Mechanical Engineering

Student: Brandon Johnson Mentor: Tim Topoleski **PM Poster Session** UC Ballroom 1:00 - 3:00

"Tribological Measurements of Carbide-Coated CoCrMo for the Improvement of Prosthetic Joints"

Student: Aftin Ross Mentor: Dwayne Arola PM Poster Session UC Ballroom 1:00 - 3:00

"Dental Bur Effects on Damage in Dentin and the Importance of Age"

Student: Danielle Stephenson Mentor: Liang Zhu **AM Poster Session** UC Ballroom

"Post-Ischemic Hypothermia in Traumatic Brain Injury"

Modern Languages and Linguistics

Student: Caitlin Wychgram Mentor: Steven Young

UC 312

10:45 -- 11:00

9:30 - 11:30

"The Syntactic Particle i in Old Japanese"

Music

Student: Sarah Crowell Mentor: Linda Dusman

UC 310 1:15 -- 1:30

Student: Christie Finn

"Woman Like Me"

"The Drama of German Lieder"



Mentor: David Smith

UC 310

10:30 -- 10:45

Student: Jack Hamlett Mentor: Joseph Morin AM Poster Session UC Ballroom 9:30 – 11:30 "The Development of the Steel Guitar in Country and Western Music"

Student: Rachele Sills Mentor: Airi Yoshioka

UC 310

10:15 -- 10:30

Student: Robert Zuzin Mentor: Airi Yoshioka

UC 310 10:45 -- 11:00 "Aesthetic Music Education for Elementary School Students"

"Further Investigation of Violin Playing"

Philosophy

Student: Theresa Lopez Mentor: Susan Dwyer

UC 310 9:30 -- 9:45

Student: John Weller Mentor: Richard Wilson

UC 310 9:15 -- 9:30 "On Our Duties to Animals"

"Stratified Pluralism"



Political Science

Student: Rosemarie Capozzi Mentor: Jeffrey Davis UC Ballroom, 1:00 – 3:00 "Religion as a Factor for Judicial Decision Making on the Supreme Court"

Student: Jeffrey Martin Mentor: George LaNoue UC Ballroom, 9:30 – 11:30 "Supreme Court Nomination Hearings: An Analysis of Justices' Responses to Controversial Questions"

Student: Elan Schnitzer Mentor: Jeffrey Davis UC 312, 2:45 -- 3:00 "Decriminalization and Legalization of Marijuana and Prostitution"

Psychology

Student: Mark Allshouse Mentor: Lynanne McGuire

AM Poster Session UC Ballroom 9:30 – 11:30 "Individual Differences in Endogenous Pain Control"

Student: Eric Gernat Mentor: David Richman PM Poster Session UC Ballroom

"Effects of Social Stimuli on Laughing and Smiling in Young Children with Angelman Syndrome"

Student: Nishan Gugsa Mentor: Carlo DiClemente AM Poster Session

UC Ballroom 9:30 – 11:30

1:00 - 3:00

"Cocaine Exposure Causes Impairment in Conditioned Responding"

Student: Stefanie Kirk Mentor: Stanley Feldstein AM Poster Session

UC Ballroom 9:30 – 11:30 "Validation of a Revised DAS: A Measure of Romantic Relationships"



Student: David Maron

Mentor: Robert Anderson

PM Poster Session UC Ballroom 1:00 – 3:00

Student: Brian Merry

Mentor: Lynanne McGuire

AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Albee Therese Ongsuco

Mentor: David Richman AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Lindsay Phebus

Mentor: Stanley Feldstein

AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Jessica Richards

Mentor: Lynanne McGuire

AM Poster Session

UC Ballroom 9:30 – 11:30

Student: Elena Spieker

Mentor: Zoe Warwick

AM Poster Session UC Ballroom

9:30 – 11:30

"Meditation as an Intervention for Pain"

"The Impact of Anxiety and Race on Chronic Pain Treatment

Outcomes"

"Pretend Play Differences Between Children with Down

Syndrome and Autism"

"Depression and Reciprocity as Predictors of Dyadic

Adjustment"

"The Effect of Stimulants on Alertness and Mood during

Sleep Deprivation"

"Solid and Sweet: The effect of orosensory properties of food

on satiety in an animal model"



Student: Jessica Wentling, Joseph Keller, Cyrus Mistry, Monica

Jimeno

Mentor: Lynnda Dahlquist

PM Poster Session UC Ballroom 1:00 - 3:00

"The Effects of Videogame Experience on Virtual Reality Distraction"

Theatre

Student: Matthew Metzger Mentor: Wendy Salkind

Dance Studio 11:20 --11:40 "New Approaches to Acting Technique"

Visual Arts

Student: Emily Hauver

Mentor: Preminda Jacob

The Commons, Mezzanine Gallery

Emily Hunter

Mentor: Irene Chan Fine Arts 404 C 10:00 am -- 10:00 pm

5:30 pm Opening Reception

Student: Amarilis Sarango

Mentor: Vin Grabill

Dance Studio 10:20 -- 10:40

Student: Daniela Zangara

Mentor: Calla Thompson

Fine Arts

First Floor Hallway Gallery

"The Photography of Jaromir Stephany"

"Dialogue Mapping"

"Reflection"

"Late Bloomers: Exploring the Potential for Age

Acceptance"