

**April 23, 2014**

**Presenters by Name**



University Center, 3<sup>rd</sup> floor

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Student: **Fadaka Adebayo**  
Mentor: **Dr. Angelica Herrera**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Use of Social Marketing Principles to Promote Positive Diabetes Care Practices in Older Hispanics and African Americans”**  
*Health Administration and Policy*

Student: **Hollie Adejumo**  
Mentor: **Dr. Lee Blaney**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Antimicrobial Activity of Fluoroquinolone Antibiotics: Consequences for UV-based Wastewater Treatment”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Jeania Afrin**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Improving Brief Constructed Responses (BCRs) in Science Using RACES Strategy”**  
*Physics*

Student: **Ifeolu Akinola**  
Mentor: **Dr. Phyllis Robinson**  
**Oral Presentation**  
**UC 310**  
**3:00 p.m.**

**“The Cloning and Expression of Whooping Crane Photopigments”**  
*Biological Sciences*

Student: **Kerianne Allen**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Increasing Student Knowledge on How to Identify and Describe Relationships among Inscribed Angles, Radii, and Chords”**  
*Mathematics and Statistics*

Student: **Aymen Alqazzaz**  
Mentor: **Dr. Bernard Lohr**  
**Oral Presentation**  
**UC 310**  
**1:15 p.m.**

**“Structure and Variation of the Warble Song in Grasshopper Sparrows (*Ammodramus savannarum*)”**  
*Biological Sciences*

Student: **Juan Alvarez**  
Mentor: **Dr. Suzanne Ostrand-Rosenberg**  
**Oral Presentation**  
**UC 310**  
**11:00 a.m.**

**“A Recombinant Protein as a Cancer Therapeutic to Overcome Tumor-Related Immune Suppression and Enhance Tumor Rejection”**  
*Biochemistry and Molecular Biology*

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Student: **Chinwendu Amazu**  
Mentor: **Dr. Laundette Jones**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Investigating a Potential Chemopreventive Agent in a  
Brca1 Mutant Mouse Model”**  
*Biochemistry and Molecular Biology*

Student: **William Angel**  
Mentor: **Dr. Hua Lu**  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Investigating Reciprocal Regulation of the Circadian  
Clock by Plant Innate Immunity”**  
*Biological Sciences*

Student: **Sara Arussy**  
Mentor: **Dr. Mark Marten**  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“Determining the Effects of Autophagy on Morphology  
of *Aspergillus nidulans*”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Ifemayowa Aworanti**  
Mentor: **Dr. Douglas Frey**  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Ion Exchange and Mixed-Mode Chromatography for  
the Optimization of Protein Purification”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Sara Azeem**  
Mentor: **Dr. Philip Farabaugh**  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“Study of rbfA Suppressor in *Escherichia coli*”**  
*Biological Sciences*

Student: **Sagar Bajpai**  
Mentor: **Dr. Charles Bieberich**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Enhancing The Inducible Mouse Model for Prostate  
Inflammation”**  
*Biochemistry and Molecular Biology*

Student: **Ademayowa Balogun**  
Mentor: **Dr. Lasse Lindahl**  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“Incorporation of L4 into Ribosomes is Temperature  
Dependent in L4 Mutant Strains”**  
*Biological Sciences*

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Student: **Amber Barnett**  
Mentor: **Ms. Esther Doyle Read**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Captain Henry Dashiell's Papers and Neo-Latin, the  
Continued International Use of Latin in the 18th  
Century”**  
*Ancient Studies*

Students: **Alex Barton, Sarah  
Kalife, Kiara Forman, Scott  
Forster**  
Mentor: **Dr. E.F. Charles LaBerge**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Improving Line-of-sight Coverage of Remote-controlled  
Drone Using an Autonomous Quadcopter”**  
*Computer Science and Electrical Engineering*

Student: **Travis Bell**  
Mentor: **Dr. John Stolle-  
McAllister**  
**Film Presentation**  
**Engineering 023**  
**3:30 p.m.**

**“Interculturality between U.S. Americans and Chileans”**  
*Psychology*

Student: **Sierra Benson-Brown**  
Mentors: **Mr. Timothy Phin,  
Ms. Esther Doyle Read**  
**Oral Presentation**  
**UC 312**  
**3:15 p.m.**

**“Equality in Diaspora: Jews in Ptolemaic Alexandria”**  
*Ancient Studies*

Students: **Kim Berghaus,  
Matthew Wilcox**  
Mentor: **Dr. Michael Hayden**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Periodic Poling of Electro-Optic Polymers for Efficient  
Terahertz Generation”**  
*Physics*

Student: **Michael Berlin**  
Mentor: **Dr. Tim Finin**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Using Machine Learning to Classify Trouble Tickets”**  
*Computer Science and Electrical Engineering*

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Student: **Drayton Blanchard**  
Mentor: **Dr. Gymama Slaughter**  
**Oral Presentation**  
**Engineering 023**  
**11:30 a.m.**

**“Characterization of Microfluidic Channels Created  
Using PDMS and Soft Lithography”**  
*Mechanical Engineering*

Student: **Catherine Bloomer**  
Mentor: **Dr. Christopher Rakes**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Enhancing Students' Level of Geometric Thinking  
through Van Hiele Phase-based Learning”**  
*Mathematics and Statistics*

Students: **Robert Breen, Rebecca  
Neubauer, Andrea Gray**  
Mentor: **Dr. William LaCourse**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Quantification of Buffering Agents in Cell  
Culture Media”**  
*Chemistry and Biochemistry*

Student: **Matthew Brewster**  
Mentors: **Dr. Matthias Gobbert,  
Professor Bradford Percy,  
Professor Padmanabhan  
Seshaiyer**  
**Oral Presentation**  
**Engineering 023**  
**2:15 p.m.**

**“The Influence of Stochastic Parameters on Calcium  
Waves in a Heart Cell”**  
*Mathematics and Statistics*

Student: **Drew Buckingham**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Increasing College and Career Readiness through  
Laboratory Experiments”**  
*Physics*

Student: **Grace Calvin**  
Mentor: **Dr. Charissa Cheah**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Maternal Psychological Well-being, Parenting Style,  
and Chinese Immigrant Children's  
Social-Emotional Adjustment”**  
*Psychology*

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Student: **Susanna Campbell**  
Mentor: **Dr. Kevin Omland**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Testing For Female Song in Newly Recognized Species:  
The Puerto Rican Oriole”**  
*Biological Sciences*

Student: **Kim Casimbon**  
Mentor: **Dr. Diane Alonso**  
**Oral Presentation**  
**UC 312**  
**3:30 p.m.**

**“Effects of Multitasking on Reading Comprehension  
and Puzzle Solving”**  
*Psychology*

Student: **Brittany Chatfield**  
Mentor: **Dr. Christopher Rakes**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Modeling Mathematics”**  
*Mathematics and Statistics*

Students: **Benjamin Cherry,  
Oleksandr Aleksandrovych**  
Mentor: **Mr. Richard Wilson**  
**Oral Presentation**  
**Engineering 023**  
**1:00 p.m.**

**“Possibilities: An Anticipatory Look at the Ethical Issues  
in Stem Cell Research”**  
*Philosophy*

Student: **Cho Fung Chim**  
Mentor: **Dr. Robin Barry**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Relation between Accurate Perception and Marital  
Satisfaction in Newlywed Couples”**  
*Psychology*

Student: **Vivian Chioma**  
Mentor: **Dr. Joseph Cheer**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Fear Be Gone: Endocannabinoids Modulate Subsecond  
Dopamine Release During the Extinction of  
Fear Memories”**  
*Interdisciplinary Studies*

Student: **Briani Claggett**  
Mentor: **Dr. Jeff Leips**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Genetic Basis of Natural Variation in Innate Immune  
Function: The Effects of Syndecan on Phagocytosis”**  
*Biological Sciences*

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Student: **Sergiu Costinas**  
Mentor: **Dr. Bernard Lohr**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Determining Song Choice in Song Birds”**  
*Biological Sciences*

Student: **Rachel Crane**  
Mentor: **Dr. Ilsa Lottes**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Variation in Human Rights Violations in Iraq: 1991 to the Present”**  
*Sociology and Anthropology*

Student: **Christine Cruz**  
Mentor: **Dr. Terry Bouton**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“The Lost Colony: Finding Elyoner”**  
*History*

Student: **Steven Dakermanji**  
Mentor: **Dr. Richard Karpel**  
**Oral Presentation**  
**Engineering 023**  
**11:00 a.m.**

**“The Study of Charged Nanoparticles of Crotamine and Plasmid DNA”**  
*Chemistry and Biochemistry*

Student: **Raissa Dantas**  
Mentor: **Dr. Mark Marten**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Production of Aspergillus nidulans Mutants for the Study of Protein Secretion Mechanisms”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Erica Dasi**  
Mentor: **Dr. Michelle Starz-Gaiano**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Characterization of Novel Signaling Regulators in Cell Migration in Drosophila”**  
*Biological Sciences*

Student: **Beshaun Davis**  
Mentor: **Dr. Jason Schiffman**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Practitioner Preferences Regarding Psychosis Risk Screening”**  
*Psychology*

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Student: **Matthew Davis**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Motivating Students by Varying Media and Providing  
Differentiated Instruction”**  
*Physics*

Student: **Nicole De Leon**  
Mentor: **Dr. Kathy Bryan**  
**Oral Presentation**  
**UC 312**  
**10:15 a.m.**

**“Representation of Families in Caldecott Medal Books  
from the 1990s”**  
*American Studies*

Student: **Mariana de Matos  
Medeiros, Natasha Barlow, Nour  
Al Ghriwati**  
Mentor: **Dr. Lynnda Dahlquist**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Effects of Anticipatory Anxiety on Children's Pain  
Tolerance”**  
*Psychology*

Student: **Alexis DeVance**  
Mentor: **Mr. Doug Hamby**  
**Artistic Performance  
Presentation**  
**FA 317**  
**10:50 a.m.**

**“Salt.Rose.Witness.”**  
*Dance*

Student: **Stephen DiBenedetto,  
Brad Potteiger**  
Mentor: **Dr. Mohamed Younis**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Anchor-free Underwater Node Localization Scheme”**  
*Computer Science and Electrical Engineering*

Student: **Juliana Doddridge**  
Mentor: **Dr. Thomas Field**  
**Oral Presentation**  
**UC 312**  
**3:45 p.m.**

**“Heaven's Light and Hellfire: A Study of the Post-  
Vocalic /r/ among Disney's Heroes and Villains”**  
*Modern Languages, Linguistics, and Intercultural  
Communication*

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Student: **Eugene Dorestal**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Improving Sight Reading”**  
*Music*

Student: **Christine Dougherty**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Improving Students' Proficiency In Reading Skills,  
Strategies, And Comprehension Through Guided  
Instruction”**  
*Biological Sciences*

Student: **Vy Duong**  
Mentor: **Dr. Hua Lu**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Functional Characterization of Soybean JAR1 Gene in  
*Arabidopsis thaliana*”**  
*Biological Sciences*

Student: **Andrea Duval**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Learning in the French Language Classroom: The  
Effect of Weekly Listening Comprehension Exercises on  
Student Learning”**  
*Modern Languages, Linguistics, and Intercultural  
Communication*

Student: **Erin Edwards**  
Mentors: **Ms. Esther Doyle Read,  
Mr. Timothy Phin**  
**Oral Presentation**  
**UC 312**  
**3:00 p.m.**

**“From Dracula to Ditches: Exploration of Roman  
Mithraism in Dacia”**  
*Ancient Studies*

Students: **David Eisen, Kevin  
Zhang**  
Mentor: **Dr. Fow-Sen Choa**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Influence of Brain Eigen Oscillation Frequencies  
(Control Channels) to the Executive Functions of Brains”**  
*Computer Science and Electrical Engineering*



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Student: Alexander Emmanuelli  
Mentor: Dr. Michael Summers  
Oral Presentation  
UC 310  
11:30 a.m.

**“The Interactions Between the 5'UTR and CANC Protein  
in Late Phase Viral Assembly of the Murine Leukemia  
Virus”**  
*Biochemistry and Molecular Biology*

Student: Samantha Eng  
Mentor: Dr. Douglas Norris  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“Characterizing the Foraging Behavior of Malaria  
Vectors During the Wet Season in Nchelenge, Zambia”**  
*Biochemistry and Molecular Biology*

Student: Narges Ershad  
Mentor: Dr. Ilsa Lottes  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Violations of Human Rights in Four Non-western  
Countries: Afghanistan, Iran, Nigeria and Saudi Arabia”**  
*Sociology and Anthropology*

Student: Alexander Evans  
Mentor: Dr. Shuyan Sun  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“The Relationship between Academic and Social Self-  
Concepts and Reading and Mathematics Achievement”**  
*Psychology*

Student: Faith Evans  
Mentor: Dr. Danielle Beatty  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Effects of Avoidant Coping on Daily Mood among  
Blacks and Latinos with Recent Discrimination  
Experiences”**  
*Psychology*

Student: Shafaq Fatima  
Mentor: Dr. Shuyan Sun  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Body Weight and Internalizing Problem Behaviors:  
Social Support, Self-Concept and Locus of Control as  
Protective Factors”**  
*Psychology*

Student: Matthew Fertig, Matt  
Law  
Mentor: Mr. Richard Wilson  
Oral Presentation  
Engineering 023  
1:00 p.m.

**“Quantum Computing”**  
*Computer Science and Electrical Engineering*

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Student: **Deborah Firestone**  
Mentor: **Mr. Neal McDonald**  
**Film Presentation**  
**Engineering 023**  
**10:45 a.m.**

**“Brush and Bone: An Animated Look at the Beauty  
Beyond Skin-Deep”**  
*Visual Arts*

Student: **Mabelle Fomundam**  
Mentor: **Dr. Alan Kreizenbeck**  
**Film Presentation**  
**Engineering 023**  
**3:15 p.m.**

**“Boalian Theatre in Practice”**  
*Theatre*

Student: **Michael Fornaro**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Increasing Student Achievement by Outlining  
Curriculum with Guiding Problems”**  
*Mathematics and Statistics*

Student: **Elizabeth Forney**  
Mentor: **Dr. Cheryl North**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“A Compound-Complex Problem: Methods for  
Increasing Sentence Variation”**  
*Englsh*

Student: **Ian Forsythe**  
Mentor: **Dr. Bambi Chapin**  
**Oral Presentation**  
**UC 312**  
**1:30 p.m.**

**“Recording an Experience of Literacy: A Person-  
Centered Approach”**  
*Sociology and Anthropology*

Student: **Jeremy Fryer**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Improving Students' Critical Thinking When Using  
Charts and Graphs”**  
*History*

Students: **Robert Gagliardi,**  
**Ralph Kenneth Colmenar**  
Mentor: **Dr. Jason Kestner**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Investigation into Dipole Interactions of Ultra-Cold  
Fermions in a Harmonic Trap”**  
*Physics*

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Students: **Game Developers' Club**  
**Paul Tschirgi, Michael Leung,**  
**Alex Lacey, Ted Cordle, Calvin**  
**Kumagai, Eliot Carney-Seim,**  
**Austin Pagano**  
Mentor: **Dr. Marc Olano**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 4:00 p.m.**

**“Innovations in Computer Game Development”**  
*Visual Arts*

Student: **Zoe Gensheimer**  
Mentor: **Mr. Mark Durant**  
**Oral Presentation**  
**Engineering 023**  
**1:45 p.m.**

**“Mirror Images: The U.S. and its 'Southern Brother'”**  
*Visual Arts*

Student: **Sanchari Ghosh**  
Mentor: **Dr. Suzanne Ostrand-**  
**Rosenberg**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Tumors May Prevent Anti-Tumor Immunity by**  
**Altering Plasma Membrane Molecules Essential for T-**  
**Cell Activation”**  
*Biological Sciences*

Student: **Kaitlyn Golden**  
Mentor: **Dr. Anne Brodsky**  
**Oral Presentation**  
**UC 312**  
**2:45 p.m.**

**“Resource-sharing and Psychological Sense of**  
**Community among First-Generation Latin American**  
**Immigrants”**  
*Psychology*

Student: **Andrew Goodwin**  
Mentor: **Dr. Rachel Brewster**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Zebrafish Embryonic Brain is Tolerant to Oxygen**  
**Deprivation”**  
*Biological Sciences*

Student: **Deepika Gorre**  
Mentor: **Dr. Shuyan Sun**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Associations Between Early Parental Involvement,**  
**Home Language, and Academic Achievement in Later**  
**School Years”**  
*Psychology*

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Student: **Jeremy Gosnell**  
Mentor: **Dr. Christopher Rakes**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Precision in Measurement”**  
*Mathematics and Statistics*

Student: **Hamsa Gowda**  
Mentors: **Dr. Yordan Kostov, Dr. Marie-Christine Daniel**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Oxidized Cellulose Route to Production of Silver Nanoparticles”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Molly Greenhouse**  
Mentor: **Ms. Esther Doyle Read**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“The (Be)coming of the Greeks: • Reviewing Archaeological Evidence for Greek Arrival ca. 2200 B.C.E.”**  
*Ancient Studies*

Student: **Alexandra Grieves**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“The Effect of Progress Checkpoints on Student Performance”**  
*Modern Languages, Linguistics, and Intercultural Communication*

Student: **Raquel Grinage**  
Mentor: **Dr. Michelle Scott**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Rhineland v Rhineland: Challenging Racial Hierarchies in the 1920s”**  
*History*

Student: **Brenda Gutierrez**  
Mentor: **Dr. George Weiblen**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“DNA Barcoding for Pharmaceutical Discovery in Fungal Endophytes”**  
*Biological Sciences*

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Student: **Hannah Gutjahr**  
Mentors: **Dr. Christopher  
Murphy, Ms. Galina Portnoy**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Does Coping Style Account for Differences in  
Posttraumatic Stress Symptoms among Partner-Violent  
Men?”**  
*Psychology*

Student: **Jichele Harris**  
Mentor: **Dr. Mark Rogers**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Correlation of Initial Steps and Balance in a Simulated  
Fall”**  
*Mechanical Engineering*

Student: **Samantha Hawkins**  
Mentor: **Dr. Sarah Chard**  
**Oral Presentation**  
**UC 312**  
**1:45 p.m.**

**“Baltimore Voices: Creating a Comprehensive Sense of  
Place and Identity”**  
*Sociology and Anthropology*

Students: **Xiaofei He, Patrick  
Husson**  
Mentor: **Dr. E.F. Charles LaBerge**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Image Processing for Steel Quality Control”**  
*Computer Science and Electrical Engineering*

Student: **Nicholas Heroux**  
Mentor: **Dr. Bernard Rabin**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Cognitive Effects of Proton Irradiation at Differing  
Energies and Exposures”**  
*Psychology*

Student: **Mary Hester**  
Mentor: **Dr. Carolyn Forestiere**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Arts Advocacy: Promoting Policy Change”**  
*Political Science*

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**Presenters by Name**



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Student: **Emily Hinz**  
Mentor: **Dr. Lisa Cella**  
**Oral Presentation**  
**Engineering 023**  
**2:00 p.m.**

**“The Kincaid Legacy”**  
*Music*

Students: **Marcus Hockaday,**  
**Kathleen Greaney, Jamie**  
**Jaegers, Arielle Ngameni Mouani**  
Mentor: **Ms. Galina Madjaroff**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“BreakingGround with Connect”**  
*Aging Studies*

Student: **Hannah Hollamon**  
Mentor: **Dr. Kathy Bryan**  
**Oral Presentation**  
**UC 312**  
**10:30 a.m.**

**“Exploration of ESL Classroom Pedagogies”**  
*American Studies*

Student: **Catherine Hornback**  
**Abdullah Ali**  
Mentor: **Dr. Amy Hurst**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Adaptive User Interfaces”**  
*Information Systems*

Students: **Dalton Hughes,**  
**Madison Bondoc, Hollie**  
**Adejumo, Chris Mullen**  
Mentor: **Dr. Lee Blaney**  
**Oral Presentation**  
**UC 310**  
**10:45 a.m.**

**“Evaluating the Efficacy of Low-tech Processes in**  
**Removing Bacterial Contaminants from Drinking Water**  
**Supplies”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Michael Ishak**  
Mentor: **Dr. Stephen Miller,**  
**Mr. Jose Ortega**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Environmental Effects on Cellular Differentiation**  
**Regulation”**  
*Biological Sciences*

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Students: **Abigail Jackson, Jessica Ortega**

Mentors: **Dr. Phyllis Robinson, Dr. Kathleen Hoffman**

**Poster Presentation**

**UC Ballroom**

**12:00 p.m. - 2:00 p.m.**

**“A Mathematical Model of Melanopsin Phototransduction and Light Adaptation”**

*Biological Sciences*

Student: **Jesse Johnson**

Mentor: **Dr. Paul Smith**

**Poster Presentation**

**UC Ballroom**

**10:00 a.m. - 12:00 p.m.**

**“Examining a Metal-Binding Motif in Novel Inhibitors of the Hepatitis C Virus NS3 Helicase”**

*Chemistry and Biochemistry*

Student: **Kendra Johnson**

Mentor: **Dr. Ian Thorpe**

**Oral Presentation**

**UC 310**

**2:15 p.m.**

**“Understanding the Molecular Mechanisms of Synergistic Inhibition of the Hepatitis C Virus (HCV) Polymerase”**

*Chemistry and Biochemistry*

Student: **Michaela Jones**

Mentor: **Dr. Michelle Starz-Gaiano**

**Poster Presentation**

**UC Ballroom**

**10:00 a.m. - 12:00 p.m.**

**“Investigating a Requirement for the shep Gene in Cell Migration”**

*Biological Sciences*

Students: **Dimitri Jordan, Jean Hopewell**

Mentor: **Dr. Robert Rubinstein**

**Poster Presentation**

**UC Ballroom**

**12:00 p.m. - 2:00 p.m.**

**“An Updated Perspective on Fishman's Eight Stages of Language Loss”**

*Sociology and Anthropology*

Students: **Ki Jung, Julia Gao, Neema Philippe**

Mentor: **Dr. Bernard Lohr**

**Poster Presentation**

**UC Ballroom**

**10:00 a.m. - 12:00 p.m.**

**“Song Output and Patterning in Grasshopper Sparrows (*Ammodramus savannarum*)”**

*Biological Sciences*

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Student: **Caroline Jurney**  
Mentor: **Dr. Susan McCully**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Attracting a Younger Audience to Live Theatre in Baltimore”**  
*Theatre*

Student: **Imesha Kalansuriya**  
Mentor: **Dr. Shawn Bediako**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Clinical and Psychosocial Factors Associated with Pediatric Sickle Cell Retinopathy”**  
*Psychology*

Student: **Noora Kanfash**  
Mentor: **Dr. Roland Thorpe**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Association among Race, Marital Status, and Preventive Services”**  
*Health Administration and Policy*

Students: **Stephen Kelley,**  
**Marissa Regelin**  
Mentor: **Ms. Sally Shivnan,**  
**Ms. Guenet Abraham**  
**Journal Release**  
**Lobby**  
**10:00 a.m. - 3:00 p.m. 12:00 p.m. - 2:00 p.m.**

**“Bartleby 2014: Interpretive Artwork, Engaging with Poetry and Prose”**  
*English*

Student: **Noore-Sabah Khan**  
Mentor: **Dr. Danielle Beatty**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Body Mass Index Moderates the Relation of Diary Negative Mood to Ambulatory Blood Pressure in Urban Blacks and Latinos”**  
*Psychology*

Student: **Amy Kim**  
Mentor: **Dr. Christopher Rakes**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Applying Mathematical Modeling in the STEM 8 Classroom”**  
*Mathematics and Statistics*



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Student: **Jin Kim**  
Mentor: **Dr. Kevin Omland**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Using Geolocators to Track Migratory Pathways of Orchard Orioles and Baltimore Orioles”**  
*Biological Sciences*

Student: **Gregory Klock**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Writing and Remembering History”**  
*History*

Student: **Omar Koita**  
Mentors: **Dr. Lasse Lindahl,**  
**Mr. Md. Shamsuzzaman**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Analysis of Cell Cycle Proteins after Distortion of Ribosome Biogenesis”**  
*Biological Sciences*

Student: **Sam Kott**  
Mentor: **Dr. Robin Barry**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Two Hearts Beat As One: A Study of Spouses' Agreement Regarding Disengaged and Engaged Communication Behavior”**  
*Psychology*

Student: **Valerie Koury**  
Mentor: **Dr. Lynnda Dahlquist**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Gender Differences in Pain Tolerance and Pain Intensity among College Students”**  
*Psychology*

Student: **Sekar Kulandaivel**  
Mentor: **Mr. John Park**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Alternative Control Paradigms for Remote-Controlled Helicopters”**  
*Computer Science and Electrical Engineering*

Student: **Robbin Lee**  
Mentor: **Dr. Fan Yang**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Reframing the Window of Chinese Society II: Contemporary Art of the Millennial Generation”**  
*Media and Communication Studies*

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**Presenters by Name**



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Student: **May Li**  
Mentor: **Dr. Ian Thorpe**  
**Oral Presentation**  
**UC 310**  
**11:45 a.m.**

**“Numerical Modeling of Lipid Biosynthesis in  
Microalgae”**  
*Biochemistry and Molecular Biology*

Student: **Lauren Lochocki**  
Mentor: **Dr. Tyson King-Meadows**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Is the Voting Rights Act Still Necessary?: Attitudinal  
Support of Electoral Reform in a Post-Jim Crow Era”**  
*Political Science*

Student: **Justine Lottermoser**  
Mentors: **Dr. Laufey  
Amundadottir, Dr. Jason Hoskins**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Chromosome Conformation Capture in the chr13q22.1  
Pancreatic Cancer Risk Locus”**  
*Chemistry and Biochemistry*

Student: **Gaurav Luthria**  
Mentor: **Dr. Bruce Johnson**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Structural Elucidation of RNA using Modern Energy  
Optimization Methods”**  
*Chemistry and Biochemistry*

Students: **Vanessa Mackley,  
Vani Ravichandran**  
Mentor: **Dr. Jennie Leach**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Using a Microelectrode Array Plate to Induce Action  
Potentials in Neural Cells Affected by Alzheimer's  
Disease”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Caitlyn Maczka**  
Mentor: **Ms. Effie Siegel**  
**Oral Presentation**  
**UC 312**  
**11:30 a.m.**

**“Rogue Species Unleashed: Examining Non-Native  
Invasive Species, A Biological Problem With  
Socioeconomic Consequences”**  
*Biological Sciences*

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Student: **Behnam Majd**  
Mentor: **Dr. Dwayne Arola**  
**Oral Presentation**  
**UC 310**  
**1:45 p.m.**

**“Fatigue of Dentin after Diamond Abrasive Bur Preparations”**  
*Mechanical Engineering*

Student: **Oleg Makarevich**  
Mentor: **Dr. Lasse Lindahl**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“An Analysis of the Function of L24 in the Ribosomal Complex”**  
*Biological Sciences*

Student: **Sarah Malesh**  
Mentor: **Dr. Cheryl North**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Student Learning Objective: Relevant Ideas in Writing”**  
*English*

Student: **John Malloy**  
Mentor: **Dr. Kevin Omland**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Using Nuclear Introns to Infer the Evolutionary History of a Vulnerable Australian Songbird, the Norfolk Island Robin”**  
*Bioinformatics and Computational Biology*

Student: **Logan Masters**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Vocabulary and Geographic Features Student Learning Objectives”**  
*History*

Student: **Kori McDonald**  
Mentor: **Dr. Joel Liebman**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“The Characterization of All Carbon Structures, C4, C5, and C6”**  
*Chemistry and Biochemistry*

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Students: **Samantha McDonald,**  
**Joshua Dutterer**  
Mentors: **Dr. Amy Hurst,**  
**Dr. Shaun Kane**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Tactile Tools for Educational Research”**  
*Information Systems*

Students: **Samantha McDonald,**  
**Jeremy Chang**  
Mentor: **Dr. Amy Hurst**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Usability of a Universal Jamming Gripper for Mobility  
Impairments”**  
*Information Systems*

Student: **Cara McGaughan**  
Mentor: **Ms. Esther Doyle Read**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Pottery Production Techniques of Ancient Greece”**  
*Ancient Studies*

Student: **Leslie McNamara**  
Mentor: **Dr. Anne Rubin**  
**Oral Presentation**  
**UC 312**  
**2:00 p.m.**

**“The Law Won Over Big Money’: Tom Watson and the  
Leo Frank Case”**  
*History*

Students: **Amy Mickhael,**  
**Alex Woo, Abigail Matthews**  
Mentor: **Dr. Lynnda Dahlquist**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Experience and Enjoyment of Videogames and Virtual  
Reality Distraction from Pain”**  
*Psychology*

Student: **Rajashree Mishra**  
Mentor: **Dr. Maricel Kann**  
**Oral Presentation**  
**UC 310**  
**10:00 a.m.**

**“Extraction of Interacting Orthologs from Literature”**  
*Bioinformatics and Computational Biology*

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Student: **Larry Morton**  
Mentor: **Dr. Gymama Slaughter**  
**Oral Presentation**  
**UC 310**  
**2:30 p.m.**

**“Gold-Tip Nanoprobe Array Fabrication for Brain  
Characterization”**  
*Computer Science and Electrical Engineering*

Student: **Tim Mullaney**  
Mentor: **Dr. Ilsa Lottes**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Human Rights Violations in the Prison Industrial  
Complex”**  
*Sociology and Anthropology*

Student: **Danya Murali**  
Mentor: **Dr. Bradford Percy**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Calcium Waves in the Neuronal Dendrite: Signal for  
Cellular Learning”**  
*Mathematics and Statistics*

Student: **Steven Murcia**  
Mentor: **Dr. Ilsa Lottes**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“United States Immigration Policy and Violations of  
Human Rights”**  
*Sociology and Anthropology*

Student: **Jonathan Neal**  
Mentor: **Dr. Diane Alonso**  
**Oral Presentation**  
**UC 312**  
**11:00 a.m.**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Empathy Reconceptualized as a Dynamic Skillset”**  
*Social Work*

Student: **Rebecca Neubauer**  
Mentor: **Dr. William LaCourse**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Development of a Real World Screening Method for  
Nutraceuticals Using DSA-TOF”**  
*Chemistry and Biochemistry*

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Student: David Nicholson  
Mentor: Dr. Ivan Erill  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Identifying Regulatory Sequences in Metagenomic  
Samples via Parallelized Search Algorithms and  
Permutation Analysis”**  
*Biological Sciences*

Student: Akua Nimarko  
Mentor: Dr. Weihong Lin  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“Expression Profile of Putative Receptors involved in  
Xenobiotics Detection in Mouse Olfactory Epithelium”**  
*Biological Sciences*

Student: Allyson Norris  
Mentor: Dr. Linda Oliva  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Improving Students' Argumentative Writing Skills  
Using Informational Texts”**  
*History*

Student: Chisom Nwaneri  
Mentor: Dr. Stephen Mathai  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“The Minimal Important Difference in the Borg Dyspnea  
Score for Patients with Pulmonary Arterial  
Hypertension”**  
*Biological Sciences*

Student: Maeva Nyandjo  
Mentor: Dr. Suzanne Ostrand-  
Rosenberg  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“The Oxidative Stress Response Transcription Factor  
Nrf2 Does Not Affect BM Progenitor Cell Differentiation  
into MDSC”**  
*Biological Sciences*

Students: Priyanka Ochaney,  
Mehnaz Ali Khan, Parsa  
Khosravian, Jeanice Hwang  
Mentors: Dr. Jeff Leips,  
Ms. Mariann Gabrawy  
Poster Presentation  
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**“Increasing Percent Survival of Drosophila  
melanogaster”**  
*Biological Sciences*

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Student: **Joyce Ohiri**  
Mentor: **Dr. Angela Brodie**  
**Oral Presentation**  
**UC 310**  
**2:45 p.m.**

**“Characterizing the AC1-Exemestane Resistant Cell Line  
in Estrogen-Dependent Breast Cancer”**  
*Biological Sciences*

Student: **Oseogie Okojie**  
Mentor: **Dr. Lasse Lindahl**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“An Analysis of SecM-induced Ribosomal Pausing in  
*Escherichia coli*”**  
*Biological Sciences*

Students: **Uchenna Okoro,**  
**Royce E. Onyimba**  
Mentor: **Dr. Katherine Seley-  
Radtke**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Flexible Guanine Nucleobase Inhibitors of the HIV-1  
Nucleocapsid Protein NCp7”**  
*Biochemistry and Molecular Biology*

Student: **Elelbin Ortiz**  
Mentor: **Dr. Phyllis Robinson**  
**Oral Presentation**  
**UC 310**  
**3:15 p.m.**

**“Determining the Role of Melanopsin C-tail in  
Deactivation and Trafficking Using Chimeric  
Constructs”**  
*Biochemistry and Molecular Biology*

Students: **Kwadwo Owusu-  
Boaitey, Nnamdi Edokobi**  
Mentor: **Dr. Laundette Jones**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Examining the RANK-L Inhibitor as a Potential  
Chemopreventative in BRCA1 Mutant Mouse Models”**  
*Biological Sciences*

Student: **John Papanikos**  
Mentor: **Dr. Paul Smith**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Synthesis of a New Potential Inhibitor of the Hepatitis C  
Virus Helicase”**  
*Chemistry and Biochemistry*

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Student: **Clarence Pascual**  
Mentor: **Dr. Lasse Lindahl**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Diversity of Ribosomal Protein Function”**  
*Biological Sciences*

Student: **Hinali Patel**  
Mentor: **Dr. Susan Sonnenschein**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Children's Views about How Math Is Used by  
Themselves and Others”**  
*Psychology*

Student: **Heather Perry**  
Mentor: **Ms. Esther Doyle Read**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Building Egypt's Pyramid: A Lithic Past”**  
*Ancient Studies*

Student: **Timothy Pillsbury**  
Mentor: **Dr. Michael Hayden**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Using Quasi-Phase Matching for Enhanced Terahertz  
Generation”**  
*Physics*

Student: **Alexander Pilon**  
Mentor: **Dr. Diane Alonso**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Empathy Scores of Alcoholics and Non-Alcoholics”**  
*Psychology*

Students: **Timothy Potteiger,**  
**William Heckert**  
Mentors: **Dr. E.F.Charles**  
**LaBerge, Dr. John Pinkston**  
**Poster Presentation**  
**UC Ballroom**  
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**“Autonomous Capacitor Bank Controller: A Means for  
Distribution Line Voltage Regulation”**  
*Computer Science and Electrical Engineering*



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Student: **Munanchu Poudel**  
Mentor: **Dr. Stephen Miller**  
Poster Presentation  
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10:00 a.m. - 12:00 p.m.

**“The Role of Polycomb Genes in the Development of  
*Volvox carteri*”**  
*Biological Sciences*

Student: **Ryan Price**  
Mentor: **Dr. Jonathan Singer**  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Increasing Success in Honors Chemistry”**  
*Chemistry and Biochemistry*

Student: **Alec Pulianas**  
Mentor: **Dr. Tinoosh Mohsenin**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Hardware Implementation of Support Vector Machine  
Learning Algorithm for Personalized Seizure Detection  
using EEG Signal”**  
*Computer Science and Electrical Engineering*

Student: **Elizabeth Quinones**  
Mentor: **Dr. Christopher Rakes**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Dance Literacy”**  
*Dance*

Student: **Nicolas Quizon**  
Mentor: **Dr. Sebahattin Cirak**  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Diagnosis in the First View: Dropped-Head Congenital  
Muscular Dystrophy Caused by de novo Mutation in the  
*Lamin A/C* Gene”**  
*Biochemistry and Molecular Biology*

Student: **Catina Ramis**  
Mentor: **Dr. Jonathan Singer**  
Poster Presentation  
UC Ballroom  
12:00 p.m. - 2:00 p.m.

**“The Correlation between Aural Musicianship and  
Accuracy of Instrumental Music Playing”**  
*Music*

Student: **Rosalind Ramsey**  
Mentor: **Dr. Christopher  
Hennigan**  
Poster Presentation  
UC Ballroom  
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**“Carbon Monoxide Analysis in the Baltimore Area”**  
*Chemical, Biochemical, and Environmental Engineering*

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ACHIEVEMENT DAY**

University Center, 3<sup>rd</sup> floor

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Student: **Muhed Rana**  
Mentor: **Dr. Jason Kestner**  
**Oral Presentation**  
**Engineering 023**  
**11:15 a.m.**

**“Increase in Efficiency for Noise Cancelling in a  
Spin-qubit Array”**  
*Physics*

Student: **Casey Rezac**  
Mentor: **Dr. Christopher Murphy**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Do People with Antisocial Personality Disorder Engage  
in Different Patterns of Abuse than Other Partner  
Violent Men?”**  
*Psychology*

Student: **William Rice**  
Mentor: **Dr. David Mitch**  
**Oral Presentation**  
**UC 312**  
**1:15 p.m.**

**“The Evolution of Trades and Occupations in  
Industrial England”**  
*Economics*

Student: **Donald Richardson**  
Mentor: **Dr. Bradford Peercy**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Development of a Cell Migration Model to Characterize  
Clustered Movements”**  
*Mathematics and Statistics*

Student: **David Rivas**  
Mentor: **Dr. Markos  
Georganopoulos**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Determining the Degree of Radiative Deceleration of  
Blazar Jets Due to Inverse Compton Scattering from  
Seed Photons in Molecular Torus”**  
*Physics*

Students: **Amy Rizkallah,  
James Han**  
Mentor: **Dr. Richard Karpel**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Search for DNA Binding Sites on Crotamine  
through Protein Chemical Modifications”**  
*Biochemistry and Molecular Biology*

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Student: **Dustin Roddy**  
Mentor: **Dr. Kathy Bryan**  
**Film Presentation**  
**Engineering 023**  
**2:45 p.m.**

**“A Perspective of BMX Culture in Baltimore”**  
*American Studies*

Student: **Patrick Roderick**  
Mentor: **Dr. Marie desJardins**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Retention of Computing Majors”**  
*Computer Science and Electrical Engineering*

Students: **Nicholas Rogers,**  
**Victoria Taylor**  
Mentor: **Dr. Mark Marten**  
**Oral Presentation**  
**UC 310**  
**1:00 p.m.**

**“Production and Characterization of Aspergillus  
nidulans Mutants for Increased Protein Secretion”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Nicole Ryan**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Reading Tables and Graphs in the Science Classroom”**  
*Chemistry and Biochemistry*

Student: **Adam Rybczynski**  
Mentor: **Dr. Jeff Leips**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Functional Response of Parasitoid Wasps to Host  
Density: Implications for Density Dependent Selection”**  
*Biological Sciences*

Student: **Becca Scharf**  
Mentor: **Dr. Jamie Trevitt**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Investigating the Association between Having A Same  
Sex Relationship and Self Reported Health in Europe”**  
*Health Administration and Policy*

Student: **Alicia Serrato**  
Mentor: **Dr. Linda Baker**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“College Students' Reading Comprehension Monitoring  
of Lexical and Semantic Violations in Think Aloud and  
Response Time”**  
*Psychology*

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Student: **Michelle Seu**  
Mentor: **Dr. Michael Summers**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Investigation of Dimerization Mechanisms in the Simian  
Immunodeficiency Virus 5'-Untranslated Region”**  
*Chemistry and Biochemistry*

Student: **Ian Shaffer**  
Mentor: **Dr. William LaCourse**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“A Multifaceted Approach for the Analysis of Electronic  
Cigarettes using DSA-TOF and Headspace GC-MS”**  
*Chemistry and Biochemistry*

Student: **Apurva Shah**  
Mentor: **Dr. Lee Blaney**  
**Oral Presentation**  
**UC 310**  
**10:30 a.m.**

**“Removal of Moxifloxacin from Wastewater by  
Adsorption onto Activated Carbon”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Christian Sias**  
Mentor: **Dr. Anthony Johnson**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Examining the Photoluminescence and Band Gap  
Energy of Gallium Arsenide (GaAs)”**  
*Physics*

Student: **Caleb Simmons**  
Mentor: **Dr. Ivan Erill**  
**Oral Presentation**  
**UC 310**  
**1:30 p.m.**

**“Hungry Monsters: A Computational Model for the  
Evolution of Metabolic Gene Regulation”**  
*Mathematics and Statistics*

Student: **LaTonya Simon**  
Mentor: **Dr. Nancy Fossett**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“ROS Mediators Control E-cadherin Expression in  
Drosophila Prohemocytes”**  
*Biological Sciences*

Student: **Callison Sims**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Mathematics Instruction in Mendelian Genetics”**  
*Biological Sciences*

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Students: **Pranjal Singh,  
Dominick DiMercurio II**  
Mentor: **Dr. Bradford Percy,  
Professor Michelle Starz-Gaiano,**  
Mentor  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“A Simplified Mathematical Model to Predict Activation  
of Migration of Drosophila Egg Chamber Border Cells”**  
*Mathematics and Statistics*

Student: **Alexandra Slepushkina**  
Mentor: **Ms. Esther Doyle Read**  
Poster Presentation  
UC Ballroom  
2:00 p.m. - 4:00 p.m.

**“Plain Ware Artifacts from Israel”**  
*Ancient Studies*

Students: **Eric Sluder, Nicole  
Whewell**  
Mentors: **Dr. E.F. Charles  
LaBerge, Dr. Fow-Sen Choa**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“Design of a Non-invasive, Low-cost Brain-Computer  
Interface to Communicate Emotional State”**  
*Computer Science and Electrical Engineering*

Student: **Sebastian Snowberger**  
Mentor: **Dr. Lee Blaney**  
Oral Presentation  
UC 310  
10:15 a.m.

**“Identification of Potent Transformation Products of  
Fluoroquinolone Antibiotics Formed during Water  
Treatment”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Amanda Sockriter**  
Mentor: **Dr. Cheryl North**  
Poster Presentation  
UC Ballroom  
10:00 a.m. - 12:00 p.m.

**“The Impact of Free Writing on Formal Writing  
Assignments”**  
*English*

Students: **Joshua Standiford,  
Daniel Abid**  
Mentor: **Mr. Richard Wilson**  
Oral Presentation  
Engineering 023  
1:00 p.m.

**“Anticipatory Ethics in Engineering Regarding the  
Future of Powered Exoskeletons for Social, Explorative,  
and Military Use”**  
*Philosophy*

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Student: **Natalie Steenrod**  
Mentor: **Dr. Katherine Seley-Radtke**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Targeting the Nucleocapsid Protein of HIV-1 (NCp7) with Nucleobase Flexibility”**  
*Chemistry and Biochemistry*

Student: **Nicholas Stewart**  
Mentor: **Dr. Ivan Erill**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Using Structural Parameters in Transcription Factor Binding Site Prediction”**  
*Computer Science and Electrical Engineering*

Student: **Stephanie Stookey**  
Mentor: **Dr. Yantao Li**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Optimization of Triacylglycerol Production in *C. zofingiensis* and Enzyme-based Conversion for Biodiesel Production”**  
*Biological Sciences*

Student: **Suejane Tan**  
Mentor: **Dr. William LaCourse**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Optimization and Exploration of Sampling Methods Affecting Ionization Efficiency for Direct Sample Analysis (DSA)”**  
*Biological Sciences*

Student: **Ke (Coco) Tang**  
Mentor: **Dr. Brigid Starkey**  
**Film Presentation**  
**Engineering 023**  
**10:15 a.m.**

**“From the Lion's Mouth: the Syrian Refugee Crisis from a Jordanian Perspective”**  
*Political Science*

Student: **Devin Taylor**  
Mentor: **Dr. Ron Marchelletta**  
**Oral Presentation**  
**UC 312**  
**11:15 a.m.**

**“The Effect of Microgravity on the Intestinal Tight Junction Proteins”**  
*Chemistry and Biochemistry*

Student: **Doris Taylor**  
Mentor: **Dr. Weihong Lin**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Effect of Irritant Exposure on Mice”**  
*Biological Sciences*

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Students: **James Taylor,**  
**Kedar Perkins**  
Mentor: **Dr. William LaCourse**  
**Oral Presentation**  
**UC 310**  
**2:00 p.m.**

**“Characterizing Extractables in Polymers”**  
*Chemistry and Biochemistry*

Students: **Tenji Tembo, Michael**  
**Bishoff, Nicholay Topin**  
Mentors: **Dr. Marie DesJardins,**  
**Dr. James MacGlashan**  
**Oral Presentation**  
**Engineering 023**  
**2:30 p.m.**

**“Creating Extended Temporal Actions through State**  
**Abstraction Techniques”**  
*Computer Science and Electrical Engineering*

Student: **Blossom Tewelde**  
Mentor: **Dr. Steven Munger**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Identification of a Novel Alternatively-spliced mRNA**  
**Isoform of the Human Taste Receptor TAS1R3”**  
*Biochemistry and Molecular Biology*

Student: **Patricia Timi**  
Mentor: **Dr. Patricio O'Donnell**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Comparison of Electrophysiological Biomarkers in**  
**Rodents and Humans under Acute and Chronic NMDA**  
**Receptor Antagonism”**  
*Biological Sciences*

Student: **Thanhlong Tran**  
Mentor: **Dr. Jeff Leips**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Dietary Restriction and the Effects of the Syndecan**  
**Gene on Lifespan in Drosophila”**  
*Biological Sciences*

Student: **Phoebe Tsoi**  
Mentor: **Dr. Marie-Christine**  
**Daniel**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Synthesis of Dendritic System for the Delivery of**  
**Chemotherapeutic Agents”**  
*Biochemistry and Molecular Biology*

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Student: **Carlos Turcios**  
Mentor: **Dr. Ilsa Lottes**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Capital Stigma: Fundamental Human Rights Violations  
of Transgender Persons in the Baltimore-Washington  
Metropolitan Area”**  
*Sociology and Anthropology*

Student: **Danielle Tyson**  
Mentor: **Dr. Weihong Lin**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Characterization of Microvillous Cell Function in the  
Murine Main Olfactory Epithelium”**  
*Biological Sciences*

Student: **Krizia-Ivana Udquim**  
Mentor: **Dr. Brenda Schroeder**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Detection and Discrimination of Botrytis Species Using  
Quantitative Polymerase Chain Reactions Melting Curve  
Analysis”**  
*Biological Sciences*

Student: **Michael Valerino**  
Mentor: **Dr. Christopher Hintz**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Development of an Inexpensive, Portable Seawater  
pCO<sub>2</sub> Analyzer for Estuarine Waters”**  
*Chemical, Biochemical, and Environmental Engineering*

Student: **Kathy Vu Nan Zhou**  
Mentor: **Dr. Charissa Cheah**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Chinese Immigrant and European American Mothers'  
Parenting Beliefs: A Cultural Understanding of  
Parental Control”**  
*Psychology*

Student: **Mashhood Wani**  
Mentor: **Dr. W. Keith Jones**  
**Oral Presentation**  
**UC 310**  
**11:15 a.m.**

**“The Role of Adiponectin in High-Fat Mediated  
Cardioprotective Programs”**  
*Biochemistry and Molecular Biology*

Student: **William Weeks**  
Mentor: **Dr. Linda Oliva**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Student Learning Outcomes for the Social Studies  
Middle School Classroom”**  
*History*



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Students: **Ann Marie Weideman,  
Bilal Moiz**  
Mentors: **Dr. Bradford Percy,  
Dr. Michelle Starz-Gaiano**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Asymmetric Activation Patterns: The Impact of  
Extracellular Geometry on the Distribution of  
Signaling Molecules”**  
*Mathematics and Statistics*

Student: **Paul Weisko**  
Mentor: **Dr. Kate Brown**  
**Oral Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Do the Posters Match the Writings: Russian Civil War  
Leaders' Writings and Propaganda Posters”**  
*History*

Student: **Bianca West**  
Mentor: **Dr. Mariano Sto.  
Domingo**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Are College Women's Perceptions of Women Influenced  
by Skin Tone and Body Size?”**  
*Psychology*

Student: **Charles White**  
Mentor: **Dr. Bernard Lohr**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Determining Song Output in Song Birds”**  
*Biological Sciences*

Students: **Caleb Williams, Hannah  
Korangkool**  
Mentor: **Mr. Doug Hamby**  
**Artistic Performance  
Presentation**  
**FA 317**  
**10:30 a.m.**

**“I'm Here”**  
*Dance*

Student: **Jennie Williams**  
Mentor: **Dr. Michelle Stefano**  
**Oral Presentation**  
**UC 312**  
**10:45 a.m.**

**“A Regular Gig: Understanding the Benefits of Open Mic  
Performance”**  
*American Studies*

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Student: **Lacey Wilson**  
Mentor: **Dr. Michelle Scott**  
**Oral Presentation**  
**UC 312**  
**2:30 p.m.**

**“The Addy Walker Stories: Studies of Enslaved  
Black Girlhood”**  
*History*

Student: **Pauline Xu**  
Mentor: **Dr. Elsa Garcin**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“Mechanism of Post-Translational Modification of  
Glyceraldehyde-3-Phosphate-Dehydrogenase by  
Dithiolethione Compounds”**  
*Biochemistry and Molecular Biology*

Student: **Keerthi Yarlagadda**  
Mentor: **Dr. Linda Baker**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Comprehension Monitoring of College Students  
Reading Inconsistent Texts in Think Aloud and Response  
Time Protocols”**  
*Psychology*

Student: **Saiah Yates**  
Mentor: **Dr. Jeff Leips**  
**Poster Presentation**  
**UC Ballroom**  
**12:00 p.m. - 2:00 p.m.**

**“The Great Escape: The Effects of Medication and Age  
on Drosophila Strength”**  
*Biological Sciences*

Student: **Tamerat Yilma**  
Mentor: **Dr. William LaCourse**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“The Quantification of Phospholipids in Cell Growth  
Media”**  
*Chemistry and Biochemistry*

Student: **Joyce Yoon**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Improving Scientific Writing through Basic Writing  
Skills and Scaffolding”**  
*Chemistry and Biochemistry*

Students: **Ezzedine Zaatari,**  
**Jesse Johnson**  
Mentor: **Dr. Lark Claassen**  
**Poster Presentation**  
**UC Ballroom**  
**10:00 a.m. - 12:00 p.m.**

**“Monitoring Cell Growth throughout the  
*Chlamydomonas reinhardtii* Cell Cycle”**  
*Biological Sciences*

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Student: **Michael Zurkowski**  
Mentor: **Dr. Jonathan Singer**  
**Poster Presentation**  
**UC Ballroom**  
**2:00 p.m. - 4:00 p.m.**

**“Student Learning Outcome: Communicating  
Engineering Design”**  
*Interdisciplinary Studies*