

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day

Presenters by Department



University Center 3rd Floor

[Table of Contents \(Linked\)](#)

[American Studies](#)

[Ancient Studies](#)

[Biochemistry and Molecular Biology](#)

[Bioinformatics and Computational Biology](#)

[Biological Sciences](#)

[Chemical, Biochemical, and Environmental Engineering](#)

[Chemistry and Biochemistry](#)

[Computer Science and Electrical Engineering](#)

[Dance](#)

[Economics](#)

[English](#)

[Gender and Women's Studies](#)

[Geography and Environmental Systems](#)

[Health Administration and Policy](#)

[History](#)

[Information Systems](#)

[Interdisciplinary Studies](#)

[Mathematics and Statistics](#)

[Mechanical Engineering](#)

[Media and Communication Studies](#)

[Modern Language, Linguistics, and Intercultural Communication](#)

[Music](#)

[Physics](#)

[Political Science](#)

[Psychology](#)

[Social Work](#)

[Sociology and Anthropology](#)

[Theatre](#)

[Visual Arts](#)

Departments

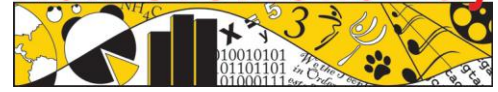
American Studies

Student: **Mallory Brooks**
Mentor: **Dr. Kathy Scales Bryan**
Oral Presentation
UC 312
1:30 p.m.

**“Platform 9 ¾: The Entrance to a Potterhead Created
Community”**

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Glen Carpenter**
Mentor: **Dr. Kathy Scales Bryan**
Oral Presentation
UC 312
2:00 p.m.

“Psychedelic Dungeons: Aesthetics, Satire, and the Counter-Counterculture”

Student: **Jordan Dubbs,**
Jason Dubbs
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Images in the Classroom: The Influence of Media in Vocabulary Instruction”

Student: **Vicki Greisman**
Mentor: **Dr. Kathy Scales Bryan**
Dr. Nicole King
Oral Presentation
UC 312
1:15 p.m.

“Quilts for Soldiers”

Student: **Jennie Williams**
Mentor: **Dr. Nicole King**
Oral Presentation
UC 312
1:45 p.m.

“Mapping Baybrook: From Main Street to the Harbor”

Ancient Studies

Student: **Sierra Benson-Brown**
Mentor: **Dr. Marilyn Goldberg**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Syncretism in Pompeii”

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **Molly Greenhouse**
Mentor: **Dr. Carolyn Koehler**
Ms. Esther Read
Oral Presentation
UC 312
11:15 a.m.

“Demystifying the "Sea Peoples": • Nomadic Tribes and Causes of Migration from Anatolia in the Late Bronze Age”

Student: **Henry Kahl**
Mentor: **Ms. Esther Read**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Tanagra Figurines: The Role of Women in Ancient Greek Society”

Student: **Caitlin Smith**
Mentor: **Dr. Timothy Phin**
Oral Presentation
UC 312
11:30 a.m.

“Interpretation in the Museum: An Ancient Gem in a Modern Context”

Biochemistry and Molecular Biology

Student: **Chinwendu Amazu**
Mentor: **Dr. Laundette Jones**
Oral Presentation
UC 310
10:00 a.m.

“Defining the Origin of an Abnormal Brown Adipose Phenotype in the Mammary Gland of Brca1 Mutant Mice”

Student: **Pallavi Bhargava**
Mentor: **Dr. Michael Summers**
Oral Presentation
UC 310
10:15 a.m.

“Inhibiting Matrix Targeting of the Gag Polyprotein towards the Plasma Membrane in HIV-1 Retrovirus Replication”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**

Presenters by Department



University Center 3rd Floor

Student: **Alexander Emmanuelli**

Mentor: **Dr. Michael Summers**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

**“Expression of the Murine Leukemia Virus CANC
Domains of the GAG Polyprotein”**

Student: **Dionna Gamble**

Mentor: **Dr. William Stanley**

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

**“Long Chain Saturated Fatty Acids Prevent the Decline
in Contractile Function Compared to Low Fat Diet in
Heart Failure”**

Student: **Christine Kang**

Mentor: **Dr. David Eisenmann**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

**“Identification of a Potential cis-Regulatory Module of
pax-3 in *Caenorhabditis elegans*”**

Student: **Bilal Moiz**

Mentor: **Dr. Michelle Starz-**

Gaiano Dr. Bradford Peercy

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

**“Modeling Diffusion of Signaling Molecules and
Consequential Cell Fate Determination”**

Student: **Michael Moubarek**

Mentor: **Dr. Charles Bieberich**

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

**“Determining the Contribution of Twist1 in Neoplastic
Progression within the MPAKT Mouse Prostate Cancer
Model”**

Student: **KimChi Nguyen**

Mentor: **Dr. Richard Karpel**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

**“Determination of dsDNA Binding Site on Gene32
Protein”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Felix Nwogbo**
Mentor: **Dr. Laundette Jones**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Brown Adipose Tissue, Friend or Foe?”

Student: **Elelbin Ortiz**
Mentor: **Dr. Phyllis Robinson**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Whooping Crane Photopigments”

Student: **Abhishek Pandey**
Mentor: **Dr. Thomas Abrams**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Role of Guanine Nucleotide Exchange Factors (GEFs) in
the Synaptic Depression”**

Student: **Julius Patellis**
Mentor: **Dr. Robert Belas**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Surface-sensing Gene Expression in *Proteus mirabilis*”

Student: **Blossom Tewelde**
Mentor: **Dr. Steven Munger**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Effects of Prolonged Sweetener Exposure on Taste
Receptor Variant Expression in NCI-H716 Cells”**

Student: **Daniel Veizaga-Udaeta**
Mentor: **Dr. Violeta Rus**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“CTL-promoting Effects of IL-21 Counteracts Murine
Lupus and Outweighs B Cell Stimulatory Effects”**

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day

Presenters by Department



University Center 3rd Floor

Bioinformatics and Computational Biology

Student: Alyssa Florwick
Mentor: Dr. Maricel G. Kann
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“High Throughput Extraction of Phenotypically Altering Genetic Variants in Model Organisms”

Student: Scott Goldweber
Mentor: Dr. Maricel Kann
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Analysis of Common Phenotypic Disruptions Between Organisms Using a Protein Domain Framework”

Student: Rajashree Mishra
Mentor: Dr. Maricel G. Kann
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Extracting Protein-Protein Interactions of Orthologous Proteins from Literature”

Student: Talmo Pereira
Mentor: Dr. Ivan Erill
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Self-Consistency of Starting Motif in Sequence Scoring Motif Searching”

Student: Mitsu Shah
Mentor: Dr. Maricel G. Kann
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Text-Mining Tools to Aid Diagnosis of Cancer”

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Biological Sciences

Student: **Danielle Adekunle**
Mentor: **Dr. Charles Bieberich**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“IL-1 β Induced Inflammation and MYC Oncogene
Activation: A New Model for Colon Carcinogenesis”**

Student: **Samira Afzali**
Mentor: **Dr. Rachel Brewster**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Investigating the Role of RGMa during Neurulation in
Zebrafish”**

Student: **Jhullian Alston**
Mentor: **Dr. Charles Bieberich**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“The Role of Androgen Dependence in a Mouse Model of
Prostate Cancer”**

Student: **Sara Azeem**
Mentor: **Dr. Philip Farabaugh**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Effect of the rpsE Mutation on the Strep Dependent
Escherichia coli”**

Student: **Leila Bahmani
Kazerooni**
Mentor: **Dr. Kevin Omland**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“The Consequences of Combining Mitochondrial DNA
and Nuclear DNA for Evolutionary Trees”**

Student: **Sagar Bajpai**
Mentor: **Dr. Charles Bieberich**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Enhancing the Inducible Mouse Model for Prostate
Inflammation”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Alexander Ballard**
Mentor: **Dr. Ricardo Feldman**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Bone Disorder Study in Gaucher Disease Using GD-
hiPSC-derived Cells”**

Student: **Ademayowa Balogun**
Mentor: **Dr. Lasse Lindahl**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Deletion of Large Loop in Ribosomal Protein L4 Makes
Incorporation of L4 into Ribosomes Temperature
Dependent”**

Student: **Niambi Brewer**
Mentor: **Dr. Michelle Starz-
Gaiano**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Role of Skywalker in Border Cell Migration”

Student: **Sarah Campbell**
Mentor: **Dr. Jasenka Borzan**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Rat Ultrasonic Signals as a Novel Measure of
Spontaneous Pain in the Formalin Model”**

Student: **Jen Chang**
Mentor: **Dr. Weihong Lin**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Mathematical Modeling for Signal Transduction in
Mammalian Olfactory Sensory Neurons”**

Student: **Yu-Rei Chang**
Mentor: **Dr. Weihong Lin**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“A Volumetric Analysis of the Mouse Accessory
Olfactory Bulb”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Hye Hyun Choi**
Mentor: **Dr. Jeff Leips**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Biodiversity and Community Structure Regarding the Interaction of Drosophila Host and its Parasitoid Wasp Interactions”

Student: **Briani Claggett**
Mentor: **Dr. Jeff Leips**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Genetic Basis of Natural Variation in Innate Immune Function: The Role of Phagocytosis”

Student: **Sergiu Costinas**
Mentor: **Dr. Bernard Lohr**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Designing a Choice Test for Song Preference in Songbirds”

Student: **Sonia Dalal**
Mentor: **Dr. Suzanne Ostrand-Rosenberg**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Mutated CD80 May Facilitate T-cell Activation by Inhibiting PDL1-PD1 Suppression and by Costimulation”

Student: **Teklu Dawit**
Mentor: **Dr. Hua Lu**
Oral Presentation
UC 310
10:30 a.m.

“Genetic Analysis of the Role of PHT4;6 in Regulating Innate Immunity of Arabidopsis”

Student: **Christopher Ecker**
Mentor: **Dr. Rachel Brewster**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Visualizing Levels of ATP in the Brain following Anoxia”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Lisa Fritts**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“The Gray Area: Learning How to Reach Unmotivated Students”

Student: **Sanchari Ghosh**
Mentor: **Dr. Suzanne Ostrand-Rosenberg**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Cell Surface Receptors Involved in T-Cell Activation are Down-Regulated in Presence of Tumor in Mice”

Student: **Blen Girmay**
Mentor: **Dr. Mary Mattapallil, Dr. Rachel Caspi**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“HLA-A *29:02 Transgenic Mice as a Model for Birdshot Chorioretinopathy Disease”

Student: **Kevin Herold**
Mentor: **Dr. Phyllis Robinson, Dr. Kathleen Hoffman**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“A Mathematical Model of Melanopsin Activation”

Student: **Aymen Hussein**
Mentor: **Dr. Bernard Lohr**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“A Comparison of Songs in the Critically Endangered Florida Grasshopper Sparrow and the Eastern Grasshopper Sparrow”

Student: **Erica Igwacho**
Mentor: **Dr. Eric Schott**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Detection of a Fatal Reo-like Virus among the *Callinectes sapidus* in the Northeast Region of the U.S.”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

- Student: **Ki Jung**
Mentor: **Dr. Bernard Lohr**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.
- “Song Type Patterning and Song Output in Grasshopper Sparrows (*Ammodramus savannarum*)”**
- Student: **Madhu Karamsetty**
Mentor: **Dr. Erik Oleson**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “A Rat's Brain on Cannabis: Sub-Chronic Treatment Produces Conditioned Tolerance to its Dopamine-Increasing Effects”**
- Student: **Salar Khaleghzadegan**
Mentor: **Dr. Stephen Miller**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “Analysis of the Epigenetic Regulator Polycomb and its Role in *Volvox carteri* Cell Differentiation and Multicellularity”**
- Student: **Zulqarnain Khan**
Mentor: **Dr. Andrea Meredith**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “Effect of GsMTx4 on Mouse Urinary Bladder Smooth Muscle (UBSM) Contractility”**
- Student: **Maithri Kondapaka**
Mentor: **Dr. Lasse Lindahl,**
Dr. Janice Zengel
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “The Effects of an L4 Loop Deletion on Lon Protease Activity and CpsB Regulation in *Escherichia coli*”**
- Student: **Shelly Lai**
Mentor: **Dr. Thomas Cronin**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “Expression of Opsin in the Eye of the Crayfish *Procambarus clarkii*”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

- Student: **Hiba Malik**
Mentor: **Dr. Weihong Lin**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.
- “**Role of TRPM5 in Survival of Olfactory Sensory Neurons**”
- Student: **Palmira Mangae**
Mentor: **Dr. Shawn Bediako**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.
- “**Epigenetics of Sickle Cell Pain: Is Perceived Stigma Associated with Expression of the COMT Gene?**”
- Student: **Gabriella Marano**
Mentor: **Dr. David Eisenmann**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “**Identification of Genes Regulating Stem Cell-Like Division of Epithelial Cells in *Caenorhabditis elegans***”
- Student: **Chelsea Meh**
Mentor: **Dr. Tanya LeRoith**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.
- “**Identifying PRRSV Structural Components that Activate Regulatory T Cells and Diminish Protective Immunity**”
- Student: **Oliver Muellerklein**
Mentor: **Dr. Bernard Lohr**
Oral Presentation
UC 310
2:45 p.m.
- “**Spatial Dynamics and Territory Estimation for Grasshopper Sparrows (*Ammodramus savannarum*): a Mathematical Model**”
- Student: **Victoria Ng**
Mentor: **Dr. Lasse Lindahl**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “**Investigating the Role of Ribosomal Protein L17A in Ribosome Biogenesis and its Post-Translational Modifications**”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Michael Nguyen**
Mentor: **Dr. Tamra Mendelson**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“A Comparison of Genetic and Epigenetic Diversity
between Urban and Nonurban Populations of a North
American Stream Fish”**

Student: **Akua Nimarko**
Mentor: **Dr. Weihong Lin**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Expression of G-protein β Subunits in Mouse
Vomerolnasal Organ”**

Student: **Ihuoma Njoku**
Mentor: **Dr. Feng Chen**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Diversity of Hematodinium and Other Dinoflagellates in
Estuarine Environments”**

Student: **Maeva Nyandjo**
Mentor: **Dr. Suzanne Ostrand-
Rosenberg**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Chronic Inflammation May Promote Tumor Growth”

Student: **Joyce Ohiri**
Mentor: **Dr. Angela Brodie**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

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

Student: **Oseogie Okojie**
Mentor: **Dr. Lasse Lindahl,
Dr. Janice Zengel**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“An Analysis on the Effect of Erythromycin on
Ribosomal Pausing in *Escherichia coli*”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Ashleigh Omorogbe**
Mentor: **Dr. Teodor Postolache,**
Dr. Ayesha Ashraf
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Evaluation of Toxoplasma gondii Infection in Patients
with Nonfatal Suicidal Self-Directed Violence”**

Student: **Royce Onyimba**
Mentor: **Dr. Tonya Webb**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“The Role of HIF-1 α in CD1d-mediated NKT Cell
Responses to Mantle Cell Lymphoma”**

Student: **Kwadwo Owusu-Boaitey**
Mentor: **Dr. Laundette Jones**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Evaluation of Brown Adipose Tissue Distribution in the
Adult Mouse Mammary Gland”**

Student: **Brooke Prince**
Mentor: **Dr. Thomas Cronin**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Babies and Biodiversity: How Stomatopod Larval
Sampling Improves Estimates of Biodiversity in the
Great Barrier Reef”**

Student: **Samantha Russell**
Mentor: **Dr. Rachel Brewster**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Anoxia Results in Microtubule Disorganization in the
Hindbrain of Zebrafish”**

Student: **Jinal Sheth**
Mentor: **Dr. Michelle Starz-
Gaiano**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“A Role for Prolyl-4-Hydroxylase Alpha in Cell
Migration in *Drosophila melanogaster*”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **James Stewart II**
Mentor: **Dr. Nowreen Haq**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Correlation between Anemia and Congestive Heart Failure with Hospital Stay”

Student: **Doris Taylor**
Mentor: **Dr. Asaf Keller**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“How Much Pain Exactly? Quantifying Spontaneous Pain due to Spinal Cord Injury from Electrolytic Lesion Model”

Student: **Brandon Young**
Mentor: **Dr. Lasse Lindahl**
Oral Presentation
UC 310
10:45 a.m.

“Functional Analysis of a Mutated Tentacle within the L4 Ribosomal Protein”

Student: **Shannon Zik**
Mentor: **Dr. Marcin Ptaszek**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Design and Synthesis of Chlorin Dimer: Platform for Development of Fluorescent Probes for *in vivo* Imaging”

Chemical, Biochemical, and Environmental Engineering

Student: **Zach Bailey**
Mentor: **Dr. Mariajose Castellanos**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Investigating the Effects of Beta-Amyloid's Interaction with G-protein Coupled Receptors on a Rat Hippocampal Neuron”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Nadine Bucca**
Mentor: **Dr. Michael Summers**
Oral Presentation
UC 310
3:30 p.m.

“Determining the Structure of the HIV-1 Matrix and Native PI(4,5)P2 Complex”

Student: **Robert Burton**
Mentor: **Dr. Lee Blaney**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Removal of Tetracycline Antibiotics from Water Using the UV-H₂O₂ Process”

Student: **Andrew Dillon**
Mentor: **Dr. Mariajose Castellanos**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Optimization of a Process: Are Algae-based Biofuels the Solution to the Energy Crisis?”

Student: **Hamsa Gowda**
Mentor: **Dr. Yordan Kostov**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Non-invasive Integrated Fluorescence Sensor for Measuring Blood Glucose Levels in the Body”

Student: **Zachary Hopkins**
Mentor: **Dr. Lee Blaney**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Ozone Treatment of Tetracycline Antibiotics: Transformation Kinetics and Removal in Water/Wastewater Matrices”

Student: **Dalton Hughes, Swarnalatha Balasubramanian**
Mentor: **Dr. Jennie Leach**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Quantitative Profile of Astrocyte Morphologies in 2D and 3D Environments”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Dalton Hughes,
Chris Mullen**

Mentor: **Dr. Lee Blaney**

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

**“Development of a Low-Tech Process for Treating
Bacterial Contaminants in an Unprotected Spring in
Isongo, Kenya”**

Student: **Carmen Matos**

Mentor: **Dr. Leah Tolosa**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m.

**“Non-invasive Glucose Biosensor with Fluorescent
Glucose Binding Protein”**

Student: **John Packard**

Mentor: **Dr. Jennie Leach**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m.

**“Qualitative Characterization of Astrocytes in 2D and 3D
Environments”**

Student: **Sebastian Snowberger**

Mentor: **Dr. Lee Blaney**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m.

**“Wastewater Treatment of Fluoroquinolone Antibiotics
Using UV-Based Processes”**

Student: **Christopher Yankaskas**

Mentor: **Dr. Mark Marten**

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

**“Morphological Characterization of *Aspergillus nidulans*
Autophagy Mutants”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Chemistry and Biochemistry

Student: **Kelin Brace**
Mentor: **Dr. Katherine L. Seley-Radtke**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Synthesis of Carbocyclic Nucleosides”

Student: **Brian Brown**
Mentor: **Dr. Katherine L. Seley-Radtke**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Synthesis of Cyclic and Acyclic Nucleotide Viral Polymerase Inhibitors”

Student: **John Chavis**
Mentor: **Dr. Elsa Garcin**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Understanding the Interaction between Glyceraldehyde-3-Phosphate Dehydrogenase and Endothelin-1 mRNA”

Student: **Nathan Fastman**
Mentor: **Dr. Paul Smith**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Novel Inhibitors of the Hepatitis C Helicase”

Student: **Margaret Gillan**
Mentor: **Dr. Lisa Kelly**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Fluorescence of Dually Labeled Acrylamide Nanogels”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Scott Johnson**
Mentor: **Dr. Ian Thorpe**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Understanding the Lipid Biosynthetic Pathway in
Chlamydomonas reinhardtii with Deterministic Kinetic
Modeling”**

Student: **Adam Mayer**
Mentor: **Dr. Brian Cullum**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“The Development of Optimized SERS SAM
Nanosensors for Intracellular Applications”**

Student: **Casey A. Medairy**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“The Impacts of Technology on a Non-Traditional
(Flipped) Classroom”**

Student: **Mansi Mehta**
Mentor: **Dr. Michael Summers**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Inhibition of Human Immunodeficiency Virus-1 Capsid
Protein Assembly”**

Student: **Uchenna Okoro**
Mentor: **Dr. Katherine L. Seley-
Radtke**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Flexible Guanosine Nucleobase Analogues as Antiviral
Agents”**

Student: **Christina Parker**
Mentor: **Dr. Marie-Christine
Daniel**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Synthesis of a Transferrin Functionalized Dendron for
Targeting Advanced Stages of Cancer”**

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **Kedar Perkins**
Mentor: **Dr. Marie-Christine Daniel**

Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Gold Nanoparticle as X-Ray CT Contrast Agent in the Detection of Cardiovascular Diseases”

Student: **James Taylor**
Mentor: **Dr. Ryan White**

Oral Presentation
UC 310
2:15 p.m.

“Characterizing Surface Conditions of Micro- and Nano-Electrodes for Electrochemical DNA-Based Sensors”

Student: **Samiullah Wagan**
Mentor: **Dr. Ryan White**

Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Biocompatible Coated Electrodes for Long Term *in vivo* Sensing”

Student: **Alexander Winton**
Mentor: **Dr. Mark Allen**

Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Isolating Polypeptides for Bio-tethering in Lithium Ion Battery Electrodes”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Computer Science and Electrical Engineering

Student: **UMBC Game**

“Experiences in Group Game Development”

Developer’s Club: Andrew Battisti, Paul Tschirigi, Michael Leung, Alex Lacey, Isaac Sohn, Jeremy Rimpo, Eliot Carney-Seim, David Kim, Jimmy Horner, Jonathan Moriarty, Alex Grube, Nathan Lam, Katherine Jay, Calvin Kumagai, Ashley Dotson, Gloria Ngo
Mentor: **Dr. Marc Olano**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

Student: **Michael Berlin**
Mentor: **Dr. Tim Finin**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Using Machine Learning to Classify Trouble Tickets”

Student: ***Kenneth Derda, Jon Schubbe, Ian McGaughran, Richard Adjogah, Jason Garcia, Timothy Noel***
Mentor: **Dr. Marc Olano**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Puzzle Box: Video Game to Challenge Spatial Perception through Three-Dimensional Puzzles”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **David Eisen**
Mentor: **Dr. Fow-Sen Choa**
Oral Presentation
UC 310
11:00 a.m.

**“Mid-Infrared Optical Stimulations for Non-Contact
Neural Excitation”**

Student: **Julian Feild**
Mentor: **Dr. Tinoosh Mohsenin**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“A High-Performance, Low-Power Many-Core Processor
for DSP Applications”**

Student: **Thomas A. Hervey,
Aneep S. Bindra, Zachary B.
Hullihen**
Mentor: **Dr. Marc Olano,
Dr. Carol Hess**
**Artistic Performance
Presentation**
FA 317
11:15 a.m.

**“Lights, Camera, Motion, Action: The Dance Application
of Microsoft's Kinect and Intelligent Stage Lighting”**

Student: **Thomas A. Hervey,
Aneep S. Bindra, Zachary B.
Hullihen**
Mentor: **Dr. Marc Olano,
Dr. Carol Hess**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Lights, Camera, Motion, Action: The Dance Application
of Microsoft's Kinect and Intelligent Stage Lighting”**

Student: **David Mai**
Mentor: **Dr. Marc Olano**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Detached, Video Game”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Jonathan Moriarty**
Mentor: **Dr. Marc Olano**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Derelict, An Experiment In Virtual Reality Game Development”

Student: **Alexander Morrow**
Mentor: **Dr. Marie desJardins**
Oral Presentation
UC 310
3:00 p.m.

“Comparison of Dimension Reduction Techniques”

Dance

Student: **Alexis DeVance**
Mentor: **Mr. Doug Hamby**
Artistic Performance
Presentation
FA 317
10:15 a.m.

“Ceremony of Memory”

Student: **Josephine Kalema**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“How Can Dance be Used to Help Students in Math?”

Student: **Meagan Singleton**
Mentor: **Mr. Doug Hamby**
Artistic Performance
Presentation
FA 317
11:00 a.m.

“Immersion”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Franki Trout**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Dance As Support In An English Classroom”

Economics

Student: **Atara Oliver**
Mentor: **Dr. Dennis Coates**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Information Technology and Consumer Transportation
Expenditures: Substitutes or Complements?”**

Student: **William Rice**
Mentor: **Dr. David Mitch**
Oral Presentation
UC 312
10:15 a.m.

“The Humble Beginnings of Public Education”

English

Student: **Comfort Azubuko-Udah**
Mentor: **Dr. Jessica Berman**
Oral Presentation
UC 310
3:45 p.m.

**“Literary Discourses on Women's Evolving Social Status
in Nigeria”**

Student: **Lauren Bucca**
Mentor: **Dr. Gail Orgelfinger**
Oral Presentation
UC 312
10:30 a.m.

**“St. Cuthbert and Pilgrimage 664-2012 AD: The
Heritage of the Patron Saint of Northumbria”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Kristen English**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Vocabulary Acquisition and Retention: An Inner City Profile”

Student: **Samantha Glass**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Multi-Genre Approaches to Critical Thinking”

Student: **Hannah Kurlansky**
Mentor: **Dr. Lindsay DiCuirci**
Oral Presentation
UC 310
4:00 p.m.

“Speaking for Whom: Authenticity and Vocal Performance in Invisible Man”

Student: **Janet Ludlow**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Effects of External Incentives on Secondary Students to Complete Homework Assignments”
English**

Student: **Marissa Regelin**
Mentor: **Ms. Sally Shivan,**
Ms. Guenet Abraham
Artistic Exhibit Presentation
Hall Table
10:00 a.m. – 3:00 p.m.

“Bartleby 2013: Behind the Scenes”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Gender and Women's Studies

Student: **Kevin Triplett**
Mentor: **Dr. Carole McCann**
Oral Presentation
UC 312
3:45 p.m.

**“Overcoming Reproductive Barriers: Memoirs of Gay
Fatherhood”**

Geography and Environmental Systems

Student: **Alexis Brown**
Mentor: **Dr. Robert Belas**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“The Universality of Roseobacter Motility Inducer (RMI)
within the Roseobacter Clade”**

Student: **William Eckert**
Mentor: **Dr. Junmei Tang**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Impact of Population Growth and Urbanization on
Local Climate Change”**

Student: **Kelley Mason**
Mentor: **Dr. Margaret Holland**
Oral Presentation
UC 312
10:45 a.m.

**“Assessing the Impacts of Corridor Conservation on
Local Communities in Costa Rica”**

Student: **Natasha Nubgaard**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Increasing Homework Turn-in Rates in Tenth-Grade
Biology Classes”**

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **Matthew Schley**
Mentor: **Dr. Matthew Baker**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Exploratory Time Series Analysis of Urbanization
Impacts on Stream Chemistry and Macroinvertebrates”**

Health Administration and Policy

Student: **Abigail Boateng**
Mentor: **Dr. Mary Stuart**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Minorities in Adaptive Physical Activity: A Community
Exercise Intervention Program for Stroke Patients”**

Student: **Sania Malik**
Mentor: **Dr. Anna Durbin**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Testing Ability of Live Attenuated Tetravalent Dengue
Vaccine to Develop Antibodies against All Types of
Dengue Virus”**

Student: **Heather Rogers**
Mentor: **Dr. Maureen Black**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Examining the Relationship between BMI and
Depressive Symptoms in African-American Adolescent
Females”**

History

Student: **Jason Adams**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Using Student Designed Extra Credit to Increase
Student Academic Achievement”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Aimee Bark**
Mentor: **Ms. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Homework Motivation Strategies”

Student: **Tatiana Bradshaw**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Student Involvement, Academic Achievement, and
Social Interaction”**

Student: **Abigail Bratcher**
Mentor: **Dr. Kate Brown**
Oral Presentation
UC 312
10:00 a.m.

**“Where Do I Fit In?: Affixing a Scholar in Soviet
Historiography in the West”**

Student: **Joseph Evans**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Improving Rates of Attendance through Student
Awareness”**

Student: **Zachary Francis**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Easing the Transition to High School for Freshmen
Students through Positive Peer Influence”**

Student: **Joshua Pleasant**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Increasing Writing Activities to Improve Test Scores”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Morey Rosner**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“The Subtle Homework Transition: Starting Homework Achievement in Class”

Student: **Thomas Vigliotti**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Improving Student Writing by Practicing Self and Peer Review”

Student: **Jennifer Wachtel**
Mentor: **Dr. Meredith Oyen**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Popular and Academic Comparisons of the United States' Iraq War and Vietnam War”

Student: **Connor Wilkinson**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Strategies for History Teachers to Raise Students SAT Verbal Scores”

Student: **Lauren Wood**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“A Tiered Approach to Classroom Management”

Information Systems

Student: **Uvonne Andoh**
Mentor: **Dr. Amy Hurst**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“3D Modeling for Older Adults”

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **Yevgeniy Arber**

Mentor: **Dr. Ravi Kuber**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

“Dynamic Access to the Web Using Haptics”

Student: **Caroline Brunschwyl**

Mentor: **Dr. Ravi Kuber**

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

**“Using Mobile Technologies to Support Procedural
Memory for Individuals with Executive Functioning
Deficits”**

Interdisciplinary Studies

Student: **Vivian Chioma**

Mentor: **Dr. Joseph Cheer,**

Dr. Erik Oleson

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m

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

Student: **Adam Gerber**

Mentor: **Dr. Rachel Brewster,**

Dr. Zoe Warwick

Oral Presentation

UC 310

11:15 a.m.

**“The Integration of the Biological and Psychological
Manifestations of Traumatic Brain Injury (TBI)”**

Student: **Shana Kadavil**

Mentor: **Dr. Ke Ren,**

Dr. Vanessa Anseloni

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

“Assessing the Affective Component of Pain”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Asif Majid**
Mentor: **Mr. Steven McAlpine**
Oral Presentation
UC 310
11:30 a.m.

“This Moroccan Life”

Student: **Luis Queral**
Mentor: **Dr. Greg Metcalf**
Oral Presentation
UC 312
11:00 a.m.

**“SHOWHAUS: An Open-Source Directory for
Underground, Fringe Music and Art Communities”**

Student: **Yohka Tanaka**
Mentor: **Mr. David Hoffman**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Social Entrepreneurship: My Strategy to Bring about a
Change on UMBC Campus”**

Mathematics and Statistics

Student: **Sandya Lakkur**
Mentor: **Dr. Robert McMahon**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Multiple Imputation Analysis of Cognitive Differences
in Schizophrenia Subgroups Compared to Controls”**

Student: **Donald Richardson**
Mentor: **Dr. Bradford Percy,**
Dr. Michelle Starz-Gaiano
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

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

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **David Stonko**
Mentor: **Dr. Bradford Percy,**
Dr. Michelle Starz-Gaiano
Oral Presentation
UC 310
2:00 p.m.

**“A Force-Based Approach to Unraveling the Mechanism
of Cell Migration”**

Student: **Ashley Witkowski**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

**“Coach Class: Effectiveness on Improving Student's
Math and Science Content Knowledge”**

Mechanical Engineering

Student: **Matthew Buchanan**
Mentor: **Dr. Marcus Zupan**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Characterization of Carbon Nano-Structure Infused
Fiber Reinforcements on Glass Fiber Substrates”**

Student: **Korine Duval**
Mentor: **Dr. Liang Zhu**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Modeling Nanoparticle Heat Transfer in Tumors”

Student: **Joshua Hooks**
Mentor: **Dr. Tony Farquhar**
Oral Presentation
UC 310
1:45 p.m.

**“Parametric Study of a Precise Heating and Cooling
Technology Applicable to Microchannel Flow”**

Student: **Christopher Paymon**
Mentor: **Dr. Marc Zupan**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Local Mechanical Behavior Measurements of Friction
Stir Welded Titanium”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Media and Communication Studies

Student: **Christina Animashaun**

“My Gray Life: Performing for the Spectator”

Mentor: **Mr. Mark Durant**

Oral Presentation

UC 312

3:00 p.m.

Modern Language, Linguistics, and Intercultural Communication

Student: **Gabriela Joseph**

**“Evaluating the Impact of Guest Speakers in the Foreign
Language (Spanish) Classroom”**

Mentor: **Dr. Jonathan Singer**

Poster Presentation

UC Ballroom

10:00 a.m. - 12:30 p.m.

Student: **Hannah Kurlansky**

**“The Culture in Linguistics: How Language Colors
Childhood Imagination”**

Mentor: **Dr. John Stolle-**

Mcallister

Oral Presentation

UC 310

1:30 p.m.

Student: **Adam Mayer**

**“Al Tishkach: A Story of Holocaust Survival in the
Context of Modern Anti-Semitism”**

Mentor: **Ms. Susanne Sutton**

Film Presentation

FA 221

2:15 p.m.

Student: **Soraya Veloso Williams**

**“The New Left of Latin America: Popular or
Authoritarian Leaders? The Case of Ecuador's Rafael
Correa”**

Mentor: **Dr. John Stolle-**

Mcallister

Poster Presentation

UC Ballroom

12:30 p.m. - 3:00 p.m.

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Music

Student: **James Carlson**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“MP3 Players and Other Handheld Devices in Schools”

Student: **Ellen Green**
Mentor: **Dr. Jonathan Singer**
Oral Presentation
UC 312
3:15 p.m.

**“Teaching Music Notation Using Music Learning Theory
Pattern Instruction Versus Traditional Instrumental
Methods”**

Student: **Yoshiaki Horiguchi**
Mentor: **Dr. Jonathan Singer**
Oral Presentation
UC 312
4:00 p.m.

**“The Correlation between the Level of Performance and
Classroom Outlook and Self-Efficacy”**

Student: **Taylor Jenkins**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Losing Attendance in School”

Student: **Brandon Lebe**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Multiple Intelligence and Music”

Student: **Elizabeth Milligan**
Mentor: **Dr. Lisa Cella**
Oral Presentation
UC 310
1:00 p.m.

**“The Changing Standards of Flute Performance in the
Nineteenth and Twentieth Centuries”**

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **Andrew Wright**
Mentor: **Dr. Linda Dusman**
Oral Presentation
UC 310
1:15 p.m.

“Players for a String Quartet”

Physics

Student: **Aryana Arsham**
Mentor: **Dr. Markos Georganopoulos**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“The Radiative Deceleration of Large-Scale Extragalactic Jets at Large Cosmological Redshifts”

Student: **Soutry De**
Mentor: **Dr. Michael Hayden**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Design and Construction of a Helium Cryostat for use in Terahertz Spectroscopy”

Student: **Brent McBride**
Mentor: **Dr. Zhibo Zhang**
Oral Presentation
UC 310
3:15 p.m.

“Monte Carlo Simulation (MCS) of Photon Transport in Three-Dimensional Clouds”

Student: **Nathan Scavilla**
Mentor: **Dr. Lynn Sparling**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“An Investigation of Wind Shear in the Coastal Mid-Atlantic with Applications to Wind Energy”
Physics

[Back to Top](#)

April 24, 2013

UNDERGRADUATE Research & Creative Achievement Day



Presenters by Department

University Center 3rd Floor

Student: **David Sweigart**
Mentor: **Dr. Michael Hayden**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Designing and Simulating THz Waveguide Devices
using Finite Element Techniques”**

Political Science

Student: **Nathaniel Buechler**
Mentor: **Dr. Carolyn Forestiere**
Oral Presentation
UC 312
2:45 p.m.

**“Neo-Corporatism and the 2008 Financial Crisis: The
Relations between Western States and Supranational
Corporations”**

Student: **Jacob Keener**
Mentor: **Dr. Cynthia Hody**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

“Democracy and Peace Reconsidered”

Student: **Anthony Rizkalla**
Mentor: **Dr. Lisa Vetter**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“The Educational Theory of W.E.B. DuBois: The
Continued Relevance and Success of the HBCU”**

Student: **Morgan Russo**
Mentor: **Dr. Lisa Vetter**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Building a Better Community: St. Augustine's City of
God”**

Student: **Paul Weisko**
Mentor: **Dr. Devin Hagerty**
Oral Presentation
UC 312
2:30 p.m.

**“People's Liberation Army Navy- Can it Defeat the U.S.
Navy?”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Psychology

Student: **Kathryn Benson**
Mentor: **Dr. Robin Barry**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“The Role of Positive Temperament in Promoting Intimacy and Overcoming Avoidant Attachment”

Student: **Grace Calvin**
Mentor: **Dr. Charissa Cheah**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Acculturative Experiences, Psychological Well-being, and Parenting among Chinese Immigrant Families”

Student: **Arielle Dolegui**
Mentor: **Dr. Karen Watkins-Lewis**
Oral Presentation
UC 312
2:15 p.m.

“The Effect of Listening to Different Genres of Music on Cognitive Processing Outcomes”

Student: **Casey Dubac**
Mentor: **Dr. Robin Barry**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Mood Disorders and Romantic Relationships”

Student: **Briana Garrett**
Mentor: **Dr. Diane Alonso**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Horror Movies and Emotional Calibration: How Revulsion Heightens Fear”

Student: **Sam Kott**
Mentor: **Dr. Robin Barry**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Do You See What I See?: Self-Partner Agreement for Disengaged and Engaged Behavior During Couple's Communication”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Kristen R. Kreider,
Samantha M. Braatz**
Mentor: **Dr. Lynnda Dahlquist**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“The Effects of Virtual Reality Distraction and
Background Noise on Pain Tolerance in College
Students”**

Student: **Catherine Krynick**
Mentor: **Dr. Nicole Else-Quest**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

“Ethnic Differences in Gender-Role Attitudes”

Student: **Karah Kuczarski**
Mentor: **Dr. Robin Barry**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“The Influence of Social Anxiety Symptoms on
Perceptual Bias during Couple Conflict”**

Student: **Stephanie McKenney**
Mentor: **Dr. Carlo DiClemente**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“How Sports and Exercise Affect Tobacco and Alcohol
Use Risks Among Maryland High School Students”**

Student: **Megan Megan C. Pejsa**
Mentor: **Dr. Lynnda Dahlquist**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.

**“Video Game Distraction for Acute Pain: The Effects of
Pre-Trial Training”**

Student: **Megan Pejsa**
Mentor: **Dr. Maureen Black**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.

**“Detecting Unhealthy Eating Attitudes and Behaviors
among African-American Girls of Varying Weight
Status”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

- Student: **Megan Powell**
Mentor: **Dr. Christopher Murphy**
Poster Presentation
UC Ballroom
12:30 p.m. - 3:00 p.m.
- “Motivational Interviewing and Intimate Partner Violence: An Eight-Year Follow-Up on Men Who Batter”**
- Student: **Dana Robinson**
Mentor: **Dr. Diane Alonso**
Oral Presentation
UC 312
3:30 p.m.
- “Multimodal Learning with Tablet Computers”**
- Student: **Caitlin Rush**
Mentor: **Dr. Robin Barry**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “The Development of a Coding System to Measure Memory for Conversation”**
- Student: **Keena Santos**
Mentor: **Dr. Mariano Sto. Domingo**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “Does Sense of Belonging Affect One's Perception of Community?”**
- Student: **Sabrina Shah**
Mentor: **Dr. David Schultz**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “Designing Online Content to Involve Parents in School-Based Prevention Programming”**
- Student: **Melissa Zarger**
Mentor: **Dr. Lynnda Dahlquist**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m.
- “The Effect of Minority and Socioeconomic Status on Parental Involvement”**

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Social Work

Student: **Kathleen Algire-Fedarcyk**
Mentor: **Dr. Jessica Guzman-Rea**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Promoting Social Change through Service-Learning”

Sociology and Anthropology

Student: **Timileyin Adediran**
Mentor: **Dr. Angelica Herrera**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Cross-sectional Analysis of Cognitive Impairment and Depression Among Older Hispanics in Washington, D.C.”

Theatre

Student: **Christopher Dews, Samrawit Belai**

“The Irene Ryan Acting Competition: Practical Process for Performance”

Mentor: **Ms. Eve Muson**
Artistic Performance
Presentation
FA 317
10:30 a.m.

Student: **Mabelle Fomundam**
Mentor: **Dr. Alan Kreizenbeck**
Artistic Performance
Presentation
FA 317
11:30 a.m.

“Storytelling”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**



Presenters by Department

University Center 3rd Floor

Student: **Daniel Roeder**
Mentor: **Dr. Susan McCully**
Artistic Performance
Presentation
FA 317
10:45 a.m.

“'Terms of Art': Interpreting Mamet's Oleanna for the Stage”

Visual Arts

Student: **Pierre Andre**
Mentor: **Mr. Frederic Worden,**
Dr. John Sturgeon
Film Presentation
FA 221
1:30 p.m.

“Media Crisis”

Student: **Ronald Blevins**
Mentor: **Mr. Frederic Worden**
Film Presentation
FA 221
1:15 p.m.

“Portraying the Sea in Two Dimensions”

Student: **Maxx Gaigler**
Mentor: **Mr. Steven Silberg**
Artistic Exhibit Presentation
Lobby Wall
10:00 a.m. - 12:30 p.m

“A Photographic Study of Motion”
Visual Arts

Student: **Anne Gray, Wesley Lok,**
Kameron Pyron, John Ford,
Timothy McFadden, Samuel
Parrish, Andrew Yoell
Mentor: **Dr. Marc Olano**
Poster Presentation
UC Ballroom
10:00 a.m. - 12:30 p.m

“Earn Your Wings”

[Back to Top](#)

April 24, 2013

**UNDERGRADUATE
Research & Creative
Achievement Day**

Presenters by Department



University Center 3rd Floor

Student: **Deon Griffin**

“Economical Method of Developing a Short Film”

Mentor: **Mr. Fred Worden**

Film Presentation

FA 221

2:00 p.m.

Student: **Steven P. Hart, Shing-**

**“Umbrella - Charisma as Gameplay in Modern
Videogames”**

Ling Huang, Alisa Burdeyny,

Kyle Conway, Thomas

Brickwedde, Isaac Sohn

Mentor: **Dr. Marc Olano**

Oral Presentation

UC 310

2:30 p.m.

Student: **David Harton**

“Perspective”

Mentor: **Mr. Frederic Worden**

Film Presentation

FA 221

1:45 p.m.

[Back to Top](#)