

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Hollie Adejumo**
Mentor: **Dr. Lee Blaney**
Oral Presentation
UC 310, 1:00 PM

**“Occurrence and Distribution of Quinolone Resistance
Genes in Baltimore Wastewater”**
Chemical, Biochemical, and Environmental Engineering

Student(s): **Heinz Adjakwah**
Mentor: **Mr. Doug Hamby**
**Artistic Performance
Presentation**
PAHB 337, 11:45 AM

“Tarantism”
Dance

Student(s): **Ifeolu Akinnola**
Mentor: **Dr. Phyllis Robinson**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“The Expression and Role of Melanopsin in *Paralichthys
dentatus*”**
Biological Sciences

Student(s): **Brandon Alexander**
Mentor: **Dr. Jason Kestner**
Oral Presentation
UC 310, 2:45 PM

**“Optimization of Finite-Bandwidth Pulse Sequences for
Spin Qubits”**
Physics

Student(s): **Ehson Aligholizadeh**
Mentor: **Dr. David J. Weber,**
Dr. Michael Cavalier
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Structure Relationships of Small Molecules Targeting
the Protein-Protein Interactions of S100B”**
Biochemistry and Molecular Biology

Student(s): **Theophilus Aluko**
Mentor: **Dr. Haibo Dong**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Design of Bio-Inspired Morphing Wings for High
Performance Lift”**
Mechanical Engineering

Student(s): **Juan Alvarez**
Mentor: **Dr. Suzanne Ostrand-
Rosenberg**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

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

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Student(s): **Roy Anderson**
Mentor: **Dr. L.D. Timmie Topoleski**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“The Effects of Vascular Calcification on the Mechanical Properties of Elastin in Arteries”
Mechanical Engineering

Student(s): **William Angel**
Mentor: **Dr. Hua Lu**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

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

Student(s): **Kelitah Armstrong**
Mentor: **Dr. Kyung-eun Yoon, Dr. Anna Shields**
Oral Presentation
UC 312, 1:45 PM

“Dialect Attitudes and Prestige Values among Korean Dialects”
Modern Languages, Linguistics, and Intercultural Communication

Student(s): **Alvaro Arrospide Fletcher**
Mentor: **Dr. Jacob Kogan**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Clustering Text Data with BIRCH”
Mathematics and Statistics

Student(s): **Sara Arussy**
Mentor: **Dr. Mark Marten**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

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

Student(s): **Christine Au**
Mentor: **Dr. William Brown**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Conflicts of Confucian Ideals and Pragmatic Battle Strategies in *Romance of the Three Kingdoms*”
Asian Studies

Student(s): **Ifemayowa Aworanti**
Mentor: **Dr. Douglas Frey**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

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

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Student(s): Sara Azeem
Mentor: **Dr. Philip Farabaugh**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“The Study of *rbfA* Suppressor Mutations and the
Contribution of RbfA to Ribosomal Biogenesis”**
Biological Sciences

Student(s): Ryan Bailey
Mentor: **Mr. Doug Hamby**
Artistic Performance
Presentation
PAHB 337, 10:30 AM

“Four Blue Skies”
Dance

Student(s): Sagar Bajpai
Mentor: **Dr. Charles Bieberich**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Characterizing Urinary Dysfunction in an Inducible
Mouse Model for Prostate Inflammation”**
Biochemistry and Molecular Biology

Student(s): Gabriella Balaa
Mentor: **Dr. Songon An**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Quantitative Analysis of Purine Nucleotide Pools
Involved in an AMPK Regulatory Loop”**
Biochemistry and Molecular Biology

Student(s): Eileen Barden
Mentor: **Dr. Robin Barry**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Do Couples Experience Disparities in Subjective Well-
being Based on SES or Ethnicity and are they Buffered
by Support?”**
Psychology

Student(s): Amber Barnett
Mentor: **Dr. David Rosenbloom**
Oral Presentation
Eng 023, 3:30 PM

**“The Representation of Clytemnestra and Hecuba in
Fifth-Century Ancient Athenian Tragedy and Pottery”**
Ancient Studies

Student(s): Robert Barrett
Mentor: **Dr. Sarah Chard**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Healthcare Mediation by a Community-based
Organization for Gender and Sexual Minorities
in Udupi, India”**
Sociology and Anthropology

Student(s): Rebecca Behnke
Mentor: **Mr. Doug Hamby**
Artistic Performance
Presentation
PAHB 337, 10:15 AM

**“Dance and Movement Therapy Techniques as a Mode of
Choreographic Exploration”**
Dance

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Student(s): **Lucinda Bennett**
Mentor: **Dr. Preminda Jacob**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“A Study in the Visual Culture of Cosplay”
Visual Arts

Student(s): **Sierra Benson-Brown**
Mentor: **Ms. Esther Doyle Read**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Fragments of the Past: Pagan Iconography in
Synagogues”**
Ancient Studies

Student(s): **Nina Beri**
Mentor: **Dr. Jeffrey Gardner**
Oral Presentation
UC 310, 2:30 PM

**“Determination of Essential Xylanases in *Cellvibrio
japonicus*”**
Biological Sciences

Student(s): **William Birmingham**
Mentor: **Professor Carlos
Romero-Talamás**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Analytic Thermal Design of Bitter-Type Solenoids”
Mechanical Engineering

Student(s): **Tiana Boardley**
Mentor: **Dr. Mauricio Bustos**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“A Program that Illuminates the Mathematical
Foundations of Neuron Resting and Action Potentials”**
Mathematics and Statistics

Student(s): **Jeffrey Bowman**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Student Learning Objective Regarding Graph
Interpretation”**
Education

Student(s): **Syrena Brace**
Mentor: **Dr. Songon An**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Subcellular Localization of Glucose-6-Phosphatase and
Phosphofructokinase in Glucose Metabolism”**
Chemistry and Biochemistry

Student(s): **Nina Burgess**
Mentor: **Dr. Lindsay DiCuirci**
Oral Presentation
UC 310, 11:30 AM

**“Acknowledgement as a Literary Trope in the African
American Literary Canon”**
English

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Student(s): Nina Burgess
Mentor: Dr. Cheryl North
Oral Presentation
Ballroom, 2:00 PM – 4:00 PM

**“A Meta-cognitive Approach to Cultivating Writing in
Context”**
Education

Student(s): Andres Camacho,
Jack Neumeier
Mentor: Ms. Jill Wrigley
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“True Greens: Creating a Community-Based Food
System”**
Interdisciplinary Studies

Student(s): Mbalou Camara
Mentor: Dr. T.H. (Tim) Gindling,
Dr. Cynthia Hody
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Economics and Politics of Non-Contributory
Pensions in Argentina”**
Economics

Student(s): Audra Campbell
Mentor: Dr. Amy Froide
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Joyce Jeffries: A Female Moneylender in 17th-Century
England”**
History

Student(s): Susanna Campbell
Mentor: Dr. Kevin Omland
Oral Presentation
UC 310, 10:45 AM

**“Documentation of Female Song in a Newly Recognized
Species, the Puerto Rican Oriole (*Icterus portoricensis*)”**
Biological Sciences

Student(s): Eliot Carney-Seim,
Austin Pagano, Michael Leung,
Andrea Wozniak, Zach Holtzman
Mentor: Dr. Marc Olano
Poster Presentation
Ballroom, 10:00 AM – 4:00 PM

**“Advances in Training of Video Game Development
Teams”**
Computer Science and Electrical Engineering

Student(s): Stephanie Castner
Mentor: Mr. Doug Hamby
Artistic Performance
Presentation
PAHB 337, 10:00 AM

“Touched”
Dance

April 22, 2015

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Student(s): **Haneet Chadha**
Mentor: **Dr. Charles Bieberich**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Understanding the Role of Passenger Genes in the
HoxB13/Myc/T-Cre Prostate Cancer Model”**
Biological Sciences

Student(s): **Sheetal Chopra**
Mentor: **Dr. Hans Bjornsson, Dr.
Jill Fahrner**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“A Mouse Model of Kabuki Syndrome Shows Evidence
of Deficient Neurogenesis”**
Biological Sciences

Student(s): **Tobias Clevinger**
Mentor: **Dr. Elsa Garcin**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Application of Human Glucokinase to Measure Glucose
Levels *in vitro*”**
Chemistry and Biochemistry

Student(s): **NaQuita Coates**
Mentor: **Dr. Robin Barry**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Is Sexual Satisfaction a Buffer for Relational
Satisfaction When There is Religious Tension?”**
Psychology

Student(s): **Niara Comrie, Emily
Canapp, Lailynn Reyes**
Mentor: **Mr. Richard Wilson**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Anticipating Future Ethical Issues with Prosthetic
Devices”**
Mechanical Engineering

Student(s): **Eileen Connell**
Mentor: **Dr. Colin Studds**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Population Genetics of the American Redstart: Locating
the Winter Sites”**
Geography and Environmental Systems

Student(s): **Melissa Crowhurst**
Mentor: **Dr. Joseph Morin,
Ms. Janice Jackson**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Old Italian Singing as an Alternative to
Modern Vocal Pedagogy”**
Music

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Student(s): **Melissa Crowhurst**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Sight Reading Skills in a Music Classroom”
Education

Student(s): **Daniel Dagenhart**
Mentor: **Dr. Ian Thorpe, Ms. Ester Sesmero**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Analyzing the Mechanism of Allosteric Inhibitor AG6 on Hepatitis C Viral Polymerase”
Biochemistry and Molecular Biology

Student(s): **Raissa Dantas**
Mentor: **Dr. Mark Marten, Dr. Liliane Ribeiro**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Heterologous Expression of Monooxygenase AA9 from *Aspergillus nidulans*”
Biochemistry and Molecular Biology

Student(s): **Suravi Das**
Mentor: **Mr. Michael Nolin, Ms. Katie Birger**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Pre-pregnancy Obesity and its Correlation with Singleton Preterm Birth”
Health Administration and Policy

Student(s): **Aaron David, Paul Giro, Andrew Duhan, Leah Mason, Alfred Yeager**
Mentor: **Dr. E.F. Charles LaBerge**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Automated Solution to Overhead Crane Runway Surveying”
Computer Science and Electrical Engineering

Student(s): **William Dean**
Mentor: **Dr. Mark Allen**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Lithium Nickel Borate as a Cathode Material for Lithium-Ion Batteries”
Chemistry and Biochemistry

Student(s): **Vignesh Dhanasekaran, Daniel Abid, Joshua Lay, Keiran Holmes**
Mentor: **Dr. E.F. Charles LaBerge**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Design of a Real-Time Digital Guitar Pitch Shifter”
Computer Science and Electrical Engineering

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Student(s): **Chinwe Di-ibor**
Mentor: **Dr. Christopher Rakes**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Effect of Accessible Language on Students’ Ability to
Create Mathematical Models of Real World Scenarios”**
Education

Student(s): **Dominick DiMercurio**
Mentor: **Dr. Michelle Starz-
Gaiano, Dr. Bradford Peercy**
Oral Presentation
UC 310, 2:15 PM

**“Simulated and Experimental Effects of RNA
Interference on Cell Motility”**
Biological Sciences

Student(s): **Kelsey Donnellan**
Mentor: **Ms. Jill Wrigley**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Eating Habits of College Students at UMBC”
Interdisciplinary Studies

Student(s): **Emily Eaglin**
Mentor: **Mr. Vin Grabill**
Film Presentation
Eng 023, 2:30 PM

“Future Children”
Visual Arts

Student(s): **Nnamdi Edokobi**
Mentor: **Dr. Laundette Jones**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“A Community-based Approach to Translational
Research Addressing Breast Cancer Disparities in
Baltimore City”**
Biochemistry and Molecular Biology

Student(s): **Erin Edwards**
Mentor: **Dr. Michael Lane,
Ms. Esther Read**
Oral Presentation
Eng 023, 3:15 PM

**“Dental Health of the Delmarva Adena-Hopewell Native
Americans”**
Ancient Studies

Student(s): **Alex Eftimiades**
Mentor: **Dr. James Franson**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Quantum Mechanics in Curved Spacetime”
Physics

Student(s): **Arielle Erenrich**
Mentor: **Dr. Jessica Berman**
Oral Presentation
UC 312, 2:45 PM

**“Examining the Intersections of Bildungsroman and
Immigration Narratives in Contemporary United States
Fiction”**
English

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Student(s): Marie Espiritu
Mentor: Dr. Ian Thorpe,
Ms. Ester Sesmero
Oral Presentation
UC 312, 11:00 AM

**“Understanding Allosteric Inhibition of the Hepatitis C
Virus Polymerase Using Non-Nucleoside Inhibitors”**
Chemistry and Biochemistry

Student(s): Sierra Francis
Mentor: Dr. Omar Ka, Mr. James
Thomas, Dr. Marie DeVerneil,
Dr. Anna Shields
Oral Presentation
UC 312, 1:30 PM

**“Mohawk and Cherokee Language Revitalization:
Overview, Assessment, and Challenges”**
*Modern Languages, Linguistics, and Intercultural
Communication*

Student(s): Megan Gallagher
Mentor: Dr. Bernard Lohr
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Song Repertoire of the Marsh Wren (*Cistothorus
palustris*) on the Gulf Coast: Implications for Sexual
Selection”**
Biological Sciences

Student(s): Sanchari Ghosh
Mentor: Dr. Sarah Michel
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“CPSF30: A Novel Zinc-Finger Protein with Therapeutic
Value”**
Chemistry and Biochemistry

Student(s): Ethan Glaser
Mentor: Dr. Ryan White
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Using Biocompatible Hydrogels to Protect
Electrochemical RNA Aptamer-Based Sensors for
Continuous Drug Load Monitoring”**
Biochemistry and Molecular Biology

Student(s): Zachary Goldberg
Mentor: Dr. Brigid Starkey
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Protracted Social Conflict Theory and Hamas-Israeli
Tensions”**
Political Science

Student(s): Shelby Goodwin,
Robin Arnold
Mentor: Dr. Raimi Quiton,
Ms. Eryka Boyd
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Sex Differences in the Relationship Between Pain
Catastrophizing and Laboratory Pain”**
Psychology

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Student(s): Nicole Gosnell
Mentor: **Dr. Lynnda Dahlquist**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Relation Between Anxiety and Pain in Healthy Children”
Psychology

Student(s): Andrew Graham-Yooll
Mentor: **Dr. Erin Green**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Investigation of Histone Methyltransferases Set1 and Set5 to Identify Mechanisms of ncRNA at Transposable Elements”
Biological Sciences

Student(s): Zane Gray, Jaskeerat Singh
Mentor: **Mr. Richard Wilson**
Oral Presentation
UC 312, 3:30 PM

“On the Precipice of Life: A Contractarian Analysis of Suspended Animation with Biomedical and Engineering Implications”
Chemical, Biochemical, and Environmental Engineering

Student(s): Shana Gregory
Mentor: **Dr. Laundette Jones**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Defining a Role of BRCA1 in the Differential Susceptibility to Obesity Between Male and Female Mice”
Biological Sciences

Student(s): Brenda Gutierrez
Mentor: **Dr. Ryan White**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Microcylinder Sensors for the Extracellular Microenvironment”
Chemistry and Biochemistry

Student(s): Andrew Gwynn
Mentor: **Ms. Esther Doyle Read**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Algonquin Pre-Contact Settlement Patterns and Practices of the Chesapeake Bay Watershed”
Ancient Studies

Student(s): Aureanna Hakenson
Mentor: **Dr. Thomas Field,**
Dr. Christine Mallinson
Oral Presentation
UC 312, 2:00 PM

“Student Attitudes Toward English Language Variation in Education”
Modern Languages, Linguistics, and Intercultural Communication

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Student(s): Nickolette
Hanzigiannis
Mentor: Dr. Charissa Cheah
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“A Comparison of Mothers' Expressions of Warmth
towards their Young Children: Does Culture Matter?”**
Psychology

Student(s): Jichele Harris
Mentor: Dr. Mark Rogers
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Effect of Combined High Intensity Induced Step
Training and Muscle Strengthening Training Program
on Gait Velocity and Balance in Older Adults”**
Mechanical Engineering

Student(s): Natalie Harris,
Olubukola Abiona
Mentor: Dr. Weihong Lin, Dr.
Tatsuya Ogura
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Regulating Chemical Access to Mouse Vomeronasal
Organ by Solitary Chemosensory Cells”**
Biological Sciences

Student(s): Shahzeb Hassan
Mentor: Dr. Philip Farabaugh
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“The Significance of Ribosomal Protein Paralogs in
Saccharomyces cerevisiae”**
Biological Sciences

Student(s): Sarah Hayman
Mentor: Dr. Christopher Rakes
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Improving Student Problem Solving Using Reflective
Math Tasks”**
Education

Student(s): Claire Hempel
Mentor: Dr. Claudia Galindo
Oral Presentation
Eng 023, 4:00 PM

**“Social-Emotional Skills of Young Latino English
Learners: The Influence of the Classroom Context”**
Language, Literacy, and Culture

Student(s): Christopher Hogue
Mentor: Ms. Cathy Cook
Film Presentation
Eng 023, 2:15 PM

“Sicario”
Visual Arts

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Student(s): **Donald Hong**
Mentor: **Dr. Paul Smith**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Synthesis of Allenes for Photochemical Devices”
Biochemistry and Molecular Biology

Student(s): **Chana R. Honick**
Mentor: **Dr. Stephen Freeland**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Art Installations as a Means of Increasing Scientific
Awareness: The Haber Process”**
Interdisciplinary Studies

Student(s): **Chana R. Honick,
Brian K. Gibson Jr.**
Mentor: **Dr. Lisa Kelly, Dr.
Stephen Mang**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“A Portable Detection Platform for Hypochlorite via
Chemiluminescence”**
Chemistry and Biochemistry

Student(s): **Atizaz Hussain**
Mentor: **Dr. Tapas Makar**
Oral Presentation
UC 310, 3:00 PM

**“Mitochondrial Biogenesis and Function are Decreased
with HIV-1-Associated Kidney Damage”**
Biochemistry and Molecular Biology

Student(s): **Noah Hutton**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Unit Conversion”
Education

Student(s): **Barbara Israel**
Mentor: **Ms. Esther Doyle Read**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Decorated Kamares Ware from the Middle Minoan
Period”**
Ancient Studies

Student(s): **Hanna Jardel**
Mentor: **Dr. Sarah Chard,
Dr. Bambi Chapin**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Understandings of Sexual Identity from a Person-
Centered Interview Approach”**
Sociology and Anthropology

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Student(s): **Maniraj Jeyaraju**
Mentor: **Dr. Sarah Chard**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Physician-Patient Relationships: Understanding
Physicians' Perspectives”**
Sociology and Anthropology

Student(s): **Catrina Johnson**
Mentor: **Dr. Rachel Brewster**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Investigating the Role of HIF1- α in Anoxia Tolerance in
Zebrafish Embryos”**
Biological Sciences

Student(s): **Hannah Jones**
Mentor: **Dr. Marjoleine Kars**
Oral Presentation
UC 312, 10:30 AM

**“Philanthropy and Reputation in the Lives of Joseph
Townsend and Baltimore's 'public-spirited citizens’”**
History

Student(s): **Michaela Jones**
Mentor: **Dr. Michelle Starz-
Gaiano**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

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

Student(s): **Yoo-Jin Kang**
Mentor: **Dr. Bambi Chapin**
Oral Presentation
Eng 023, 1:15 PM

**“East-Asian-American Student Perspectives on Romantic
Relationships and Violence”**
Interdisciplinary Studies

Student(s): **Kit Kearney, Andrew
Comer, Marcus Flores, Lewis
Gould, Daniel Zuckerbrod**
Mentor: **Dr. E. F. Charles
LaBerge**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Simple Sensor Box”
Computer Science and Electrical Engineering

Student(s): **Aaron Kennet,
Benjamin Straube, Philip
Swanson**
Mentor: **Dr. Tyson King-Meadows**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Perils and Promise of Localizing National Politics:
A Case Study of the 2014 Maryland Gubernatorial
Election”**
Political Science

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Student(s): Omar Khalid
Mentor: Dr. Tapas Makar
Oral Presentation
UC 310, 2:00 PM

**“Inhibition of AQP4 Causing Renal Failure Mediated
Through Endoplasmic Reticulum Stress in HIV
Transgenic Mice”**
Biological Sciences

Student(s): Alicia Khan
Mentor: Dr. Jae Lee
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“SOCS3 Deletion Decreases the Capacity of NG2 Cells to
Differentiate into Oligodendrocytes in the Uninjured
Brain”**
Biochemistry and Molecular Biology

Student(s): Ahmna Khan
Mentor: Dr. Charissa Cheah
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Do Parenting Styles and Practices Interact to Predict
Chinese-American Children's Adjustment?”**
Psychology

Student(s): Seema Khandagle
Mentor: Dr. Jonathan Singer
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Improving Student Performance on Dimensional
Analysis in Stoichiometry”**
Education

Student(s): Jin Kim
Mentor: Dr. Kevin Omland, Dr.
Matthias Gobbert
Oral Presentation
UC 310, 10:30 AM

“Speciation Reversal: The Case of the Common Raven”
Biological Sciences

Student(s): Steven Klement
Mentor: Dr. Linda Oliva
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Reducing Test Anxiety to Improve Students' Learning”
Education

Student(s): Hannah Korangkool
Mentor: Mr. Stephen Bradley
Film Presentation
Eng 023, 11:00 AM

“Arroy: The Thai Food Cart”
Visual Arts

Student(s): Benjamin Korbelak
Mentor: Dr. Christopher Rakes
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Increasing Student Successes with Challenging
Unfamiliar Problems Through Exposure”**
Education

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Student(s): **Samuel Kraft,
Labeeb Ahmed, Jason Chang**
Mentor: **Dr. Margaret Holland**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Participatory Mapping as a Means of Ground-Truthing
Habitat Loss in Costa Rican Biological Corridors”**
Geography and Environmental Systems

Student(s): **Hollie Kuhn**
Mentor: **Dr. Cheryl North**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Evaluating Techniques Used to Enhance
Middle School Writing”**
Education

Student(s): **Ashley Kwon**
Mentor: **Dr. Hua Lu, Ms. Safae
Hamdoun**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Analyze Cell Fate Determination in Arabidopsis with
Erwinia amylovora Infection”**
Biological Sciences

Student(s): **Andrew Lee**
Mentor: **Dr. Robin Barry**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Interracial Romantic Relationships, Attachment Style
and Relationship Stability”**
Psychology

Student(s): **Jessica Lee**
Mentor: **Dr. Lee Blaney**
Oral Presentation
UC 310, 1:15 PM

**“Absorbance of Pharmaceuticals Exposed to Ultraviolet
(UV) Light as a Function of pH, Treatment Level,
and Wavelength”**
Chemical, Biochemical, and Environmental Engineering

Student(s): **Alina Lightchaser**
Mentor: **Dr. Shari Waldstein**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Subclinical Symptoms of Post-Traumatic Stress
Disorder are not Associated with MRI
Assessed Brain Volumes”**
Psychology

Student(s): **Lucas Link**
Mentor: **Dr. Linda Dusman**
Oral Presentation
ENG 023, 2:45 PM

**“Comparative Composing: a String Trio and
a cappella Choral Music”**
Music

Student(s): **Andy Little**
Mentor: **Dr. Linda Oliva**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Translating Primary and Secondary Sources Into an
Argument: Using Historical Evidence in Writing”**
Education

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Michael Lopresti**
Mentor: **Dr. Tamra Mendelson**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Estimating the Timing of a Major Geological Event
using Sequence Divergence of Freshwater Fishes”**
Biological Sciences

Student(s): **Justine Lottermoser**
Mentor: **Dr. Ryan White**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“The First Electrochemical, Aptamer-Based Sensor on a
Carbon Surface”**
Biochemistry and Molecular Biology

Student(s): **James Loy**
Mentor: **Dr. Matthew Pelton**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Computer Interface for Optical Studies of Single
Nanoparticles”**
Physics

Student(s): **Corinne Luetje**
Mentor: **Dr. Christopher Rakes**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Choreographed Dance Routines,
Student Learning Outcome”**
Education

Student(s): **Rachel Lum**
Mentor: **Mr. Doug Hamby**
**Artistic Performance
Presentation**
PAHB 337, 11:00 AM

“Articulating Space”
Dance

Student(s): **Gaurav Luthria**
Mentor: **Dr. Bruce Johnson**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Developing Algorithms for Structure
Elucidation of Biomolecules”**
Biochemistry and Molecular Biology

Student(s): **Daniel Mackey**
Mentor: **Dr. David Rosenbloom**
**Artistic Performance
Presentation**
Eng 023, 3:00 PM

“Reconstructing Music for the Ancient Greek Lyre”
Ancient Studies

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Vanessa Mackley,
Vani Ravichandran**
Mentor: **Dr. Jennie Leach**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Optimization of Nanospheres for Drug Delivery
Circumventing the Blood Brain Barrier”**
Chemical, Biochemical, and Environmental Engineering

Student(s): **Austin Maduka**
Mentor: **Dr. Natasha Zachara,
Ms. Jennifer Groves**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Generation and Characterization of a Stable Inducible
O-GlcNAcase Cell Line”**
Biochemistry and Molecular Biology

Student(s): **Oleg Makarevich**
Mentor: **Dr. Lasse Lindahl**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“How do Δ L24 Ribosomes Differ from Wild Type?”
Biological Sciences

Student(s): **Olufunmilayo
Makinde**
Mentor: **Dr. Andrea Kalfoglou**
Oral Presentation
Eng 023, 3:45 PM

**“Exploring Poorly Understood Psychosocial Factors for
HIV Prevention and Treatment Among Urban African
American Women”**
Health Administration and Policy

Student(s): **John Malloy**
Mentor: **Dr. Kevin Omland**
Oral Presentation
UC 310, 11:00 AM

**“Is the Endangered Norfolk Island Robin a Distinct
Species?”**
Bioinformatics and Computational Biology

Student(s): **Margaret Marzolf**
Mentor: **Ms. Esther Doyle Read**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Effects of the Little Ice Age on Native American
and European Relations from 1300 to 1850”**
Ancient Studies

Student(s): **Jeremy Mattison**
Mentor: **Dr. Lisa Kelly**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Synthesis of N-Substituted Benzoperylene Monoimide
Fluorophores for Incorporation in
Polyacrylamide Nanogels”**
Biochemistry and Molecular Biology

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): Jennifer Mayrovitz
Mentor: Dr. Christopher Rakes
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Effect of Student Self-Assessment of Solutions on Math
Assessment Scores”**
Education

Student(s): Conner McIntyre
Mentor: Dr. Linda Oliva
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Student Learning Objective: Citations and Bias”
Education

Student(s): Nikki McNeil
Mentor: Dr. Robert Bridges
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Bootstrapping for Text Extraction in Cyber Security”
Computer Science and Electrical Engineering

Student(s): Amelia Meman
Mentor: Ms. Megan Tagle Adams
Oral Presentation
UC 312, 2:15 PM

**“Toward a Transformative Epistemology: Personal
Experience as Public Knowledge”**
Gender and Women's Studies

Student(s): Shannon Mitchell
Mentor: Dr. Kathy Bryan
Oral Presentation
UC 312, 10:45 AM

**“Geographically Skewed News: A Trayvon Martin Case
Study”**
American Studies

Student(s): Vivek Moorthy
Mentor: Dr. Douglas Lamdin
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Main Street and Wall Street: Gauging Recovery
after the Great Recession”**
Economics

Student(s): Mercedes Morina
Mentor: Dr. Donald Snyder
Oral Presentation
Eng 023, 11:15 AM

**“How Does a Religious Upbringing Limit, Prevent,
and/or Influence the Manifestation of Celebrity and Pop
Cultural Fandom?”**
Media and Communication Studies

Student(s): Larry Morton
Mentor: Dr. Gymama Slaughter
Oral Presentation
UC 310, 3:45 PM

**“High Density Neural Probe Design for Chemical
Sensing”**
Computer Science and Electrical Engineering

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Michael Moubarek,
Quoc Bui**
Mentor: **Dr. Stephen Mang**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“A Low-Cost, Sensitive Visual Spectrophotometer for
Teaching Laboratories”**
Biochemistry and Molecular Biology

Student(s): **Daniela Mujica-
Martorell, Stephen Kelley**
Mentor: **Ms. Sally Shivan, Ms.
Guenet Abraham**
Artistic Exhibit Presentation
Lobby, 10:00 AM – 4:00 PM

“Bartleby 2015: A Collaborative Creation”
English

Student(s): **Sameera Mukhtar**
Mentor: **Dr. Cheryl North**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Time Management and the
Advanced Placement Language Test”**
Education

Student(s): **Danya Murali**
Mentor: **Dr. Bradford Percy**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Using Mathematical Modeling to Predict Calcium Wave
Behavior in Neuronal Dendrites”**
Mathematics and Statistics

Student(s): **Matthew Myslinski**
Mentor: **Ms. Cathy Cook**
Film Presentation
Eng 023, 10:00 AM

“Samhain and Disenchanted”
Visual Arts

Student(s): **Matthew Myslinski**
Mentor: **Mr. Vin Grabill**
Film Presentation
Eng 023, 10:15 AM

“All's Fair: A Campus MovieFest Experience”
Visual Arts

Student(s): **Yves Nazon II**
Mentor: **Dr. Soobum Lee**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Electromagnetic Energy Generator in Total Knee
Replacement Unit for Self-Powering *in-vivo* Sensor”**
Mechanical Engineering

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): Nkemdilim Ndubuizu
Mentor: **Dr. Laura Rowland**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Cannabis Use in Relation to GABA and Glutamate
Levels in Schizophrenia”**
Biological Sciences

Student(s): Jack Neumeier, Stephen Moore, Jasper
Dudley, Mai Huynh, Andres Camacho, Andrew
Starck, Heather Mortimer, Nandit Shah, Gabriel
Margarida, Markus Proctor, Rob Ford, Kirby
Kelbaugh, Vijay Raju
Mentor: **Mr. Steven McAlpine**
Artistic Exhibit Outside UC, 10:00 AM – 4:00 PM

“Kinetic Sculpture Race”
Interdisciplinary Studies

Student(s): Kevin Nguyen
Mentor: **Dr. Maricel Kann**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“A Clinical Interface for Genomic Analysis for Neonatal
Diseases Using Human Phenotype Ontologies”**
Bioinformatics and Computational Biology

Student(s): Akua Nimarko
Mentor: **Dr. Weihong Lin**
Oral Presentation
UC 310, 10:15 AM

**“Expression Profile of Putative Receptors Involved in
Xenobiotic Detection in Mouse Olfactory Epithelium”**
Biological Sciences

Student(s): Julie Norton, Kevin
Liao, Mimi Way, Brittnie
Prakash
Mentor: **Dr. Steven Caruso, Dr.
Ivan Erill**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Novel Bacillus Bacteriophage Isolated from Russian
Soil”**
Biological Sciences

Student(s): Kamsi Odinammadu
Mentor: **Dr. Michelle Starz-
Gaiano**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Role of Ecdysone in the Migration of Border Cells in
Drosophila melanogaster Egg Chambers”**
Biological Sciences

Student(s): Tolu Omokehinde
Mentor: **Dr. Paul Bieniasz**
Oral Presentation
UC 310, 11:45 AM

**“The Application of CRISPR Genome Engineering to the
Study of Host Antiviral Factors”**
Biochemistry and Molecular Biology

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Elelbin Ortiz**
Mentor: **Dr. Phyllis Robinson**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Determining the Role of Melanopsin C-Tail in
Deactivation and Trafficking”**
Biological Sciences

Student(s): **Clarence Pascual**
Mentor: **Dr. Lasse Lindahl**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Ribosome Biogenesis Mediated Cell Cycle Arrest in
Saccharomyces cerevisiae”**
Biological Sciences

Student(s): **Sagar Patel**
Mentor: **Dr. Linda Baker**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Does Socioemotional Competence Predict Oral
Language Competence?”**
Psychology

Student(s): **Himadri Patel**
Mentor: **Dr. Raimi Quiton,
Ms. Eryka Boyd**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Gender Differences in the Relationship Between Anxiety
and the Function of Endogenous Pain Inhibitory
Systems”**
Psychology

Student(s): **Erin Patterson**
Mentor: **Ms. Eve Muson**
Oral Presentation
Eng 023, 10:30 AM

“Five Weeks, Ten Minutes, a Study in Physical Theater”
Theatre

Student(s): **Talmo Pereira, David
Nicholson**
Mentor: **Dr. Ivan Erill**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Characterizing Population Level Transcriptional
Regulation Using Metagenomics”**
Bioinformatics and Computational Biology

Student(s): **Samantha Perry**
Mentor: **Dr. Bernard Lohr**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Vocal Development in Grasshopper Sparrow
(*Ammodramus savannarum pratensis*) Nestlings from
Hatching to Fledging”**
Biological Sciences

April 22, 2015

**URCAD Presenters in
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Student(s): **Matthew Poissant**
Mentor: **Dr. Linda Oliva**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“B or Better”
Education

Student(s): **Matthew Poissant**
Mentor: **Dr. Kathy Bryan**
Oral Presentation
UC 312, 2:30 PM

“Deceptive Innovation”
American Studies

Student(s): **Divya Prasad,
Feyisanmi Ojo, Nathan Legg,
Shawn Tang**
Mentor: **Dr. Tyson King-Meadows**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Framing Congressional Authority to Protect Minorities:
A Content Analysis of Newspaper Coverage
of the Voting Rights Act”**
Political Science

Student(s): **Devona Quasie-Woode**
Mentor: **Dr. Maricel Kann, Mr.
Thomas Peterson**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Mapping Genetic Markers of Childhood Diseases Using
Text Mining of Biomedical Literature”**
Bioinformatics and Computational Biology

Student(s): **Rafay Qureshi**
Mentor: **Dr. Cha-Min Tang, Dr.
M. Samir Jafri**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Visualization of Axons in the Human Optic Chiasm”
Health Administration and Policy

Student(s): **Nishay Raja**
Mentor: **Dr. Anne Spence,
Ms. Jamie Gurganus**
Oral Presentation
UC 310, 3:30 PM

**“Improving Spatial Visualization Skills of Engineering
Majors at UMBC”**
Mechanical Engineering

Student(s): **Tahira Raja**
Mentor: **Dr. Narsingh Singh**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Development of Novel Wide Bandgap Substrate for
High Power and High Temperature Electronics”**
Chemistry and Biochemistry

April 22, 2015

**URCAD Presenters in
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Student(s): Alyssa Ramos
Mentor: **Dr. T. H. (Tim) Gindling**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Gender Wage Discrimination in the Philippine Labor Market”
Economics

Student(s): Hayley Richardson
Mentor: **Dr. Kevin Omland,**
Dr. Matthias Gobbert
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Speciation Reversal: The Case of the Common Raven”
Mathematics and Statistics

Student(s): Nicholas Rogers
Mentor: **Dr. Lee Blaney**
Oral Presentation
UC 310, 1:30 PM

“Using Excitation-Emission Matrix Analysis to Characterize the Impact of Leaking Wastewater on Urban Water Resources”
Chemical, Biochemical, and Environmental Engineering

Student(s): Alexis Rubin
Mentor: **Dr. Shuyan Sun**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Approaches to Learning and Academic Achievement for Hearing Impaired Children: A Longitudinal Study”
Psychology

Student(s): Alexa Saunders
Mentor: **Dr. Christopher Rakes**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Enhancing Students' Ability to Leap”
Education

Student(s): Emily Schultheis,
Waleed Waris
Mentor: **Dr. Stephen Mang,**
Dr. Lisa Kelly
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Briggs-Rauscher Oscillating Color Change Reaction”
Chemistry and Biochemistry

Student(s): Amir Salar Sepehri
Mentor: **Dr. Richard Karpel**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“The Study of Chemical Modification of Crotamine and Its Interaction with DNA”
Chemistry and Biochemistry

April 22, 2015

**URCAD Presenters in
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Student(s): Apurva Shah
Mentor: **Dr. Carlos Bustamante**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Elucidating the Folding Pathways of Calcium-Binding
Proteins”**
Biological Sciences

Student(s): Matthew Shin
Mentor: **Dr. Katherine
Seley-Radtke**
Oral Presentation
UC 312, 11:15 AM

**“Synthesis of Halogenated thieno[3,2-d]pyrimidines as
Anticancer Agents”**
Chemistry and Biochemistry

Student(s): Hunter Shippey
Mentor: **Mr. John Sturgeon**
Film Presentation
Eng 023, 1:30 PM

“Model in Session”
Visual Arts

Student(s): Matthew Shirley
Mentor: **Dr. Katherine
Seley-Radtke**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Flexible Nucleosides as Potential Ebola Inhibitors”
Chemistry and Biochemistry

Student(s): Gideon Shrier,
Mariana de Matos Medeiros
Mentor: **Dr. Lynnda Dahlquist**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Psychological Correlates of Video Game
Enjoyment in Children”**
Psychology

Student(s): Vivek Shukla
Mentor: **Dr. Tapas Makar**
Oral Presentation
UC 310, 3:15 PM

**“Renal Function and Apoptotic Cell Death is Interrelated
in HIV-Associated Nephropathy”**
Biochemistry and Molecular Biology

Student(s): Sadjo Sidikou
Mentor: **Dr. Jennie Leach**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Understanding the Mechanosensing Mechanisms of
Fibroblasts in 3D Cell Culture”**
Chemical, Biochemical, and Environmental Engineering

April 22, 2015

**URCAD Presenters in
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Student(s): **Abigail Singer**
Mentor: **Dr. Jonathan Singer**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Writing Interventions in the Science Classroom”
Education

Student(s): **Pranjal Singh**
Mentor: **Dr. Bradford Percy, Dr.
Michelle Starz-Gaiano**
Oral Presentation
UC 312, 11:30 AM

**“An Analytically Reduced Mathematical Model of the
Effects of RNA Interference in the
JAK/STAT Signaling Pathway”**
Mathematics and Statistics

Student(s): **Rupsha Singh**
Mentor: **Dr. Robin Barry**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“The Association Between Intimate Partner Violence and
Conflict Disengagement in Newlywed Couples”**
Psychology

Student(s): **Rupsha Singh,
Dafina I. Chisolm, Cassandra L.
Simons, Shari R. Metzger**
Mentor: **Dr. Susan Sonnenschein**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Relationship Between Boys' and Girls' Self-
Awareness of Learning Strategies and their Cognitive
Task Performance”**
Psychology

Student(s): **Angelo Skarlatos**
Mentor: **Ms. Cathy Cook**
Film Presentation
Eng 023, 1:45 PM

“Nerds Rule, Jocks Drool”
Visual Arts

Student(s): **Jazmin Smith**
Mentor: **Dr. Preminda Jacob**
Oral Presentation
Eng 023, 10:45 AM

“Afrofuturism in Visual Art”
Visual Arts

Student(s): **JR Smith, Savannah
Myers, Paul Tschirgi, Ben Wash,
Samantha Carestia, Brandon
Cole, Celeste Haskett, Jeff Hurd**
Mentor: **Dr. Marc Olano,
Dr. Anne Rubin**
Poster Presentation
Ballroom, 10:00 AM – 4:00 PM

**“Bandit: Video Game To Teach Players about the Pratt
Street Riots of the Civil War”**
Computer Science and Electrical Engineering

April 22, 2015

**URCAD Presenters in
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Student(s): **Parisa Soleimanifar,
Jaelyn Bos**
Mentor: **Dr. Jeff Leips,
Ms. Chia-Hua Lue**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Geographic Variation in Community Structure in
Drosophila Species and their Parasitoid Wasps in North
America”**
Geography and Environmental Systems

Student(s): **Hunter Somerville,
Kevin Sears, Michael Warren,
Sergei Grishin**
Mentor: **Dr. E.F. Charles LaBerge**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“A Smart Vent to Reduce Energy Consumption via
Wireless Home Automation”**
Computer Science and Electrical Engineering

Student(s): **Tyler Sousa**
Mentor: **Mr. Richard Wilson**
Oral Presentation
UC 312, 3:45 PM

**“An Ethical Analysis of the Mars One Project: the
Concept of Planetary Colonization”**
Chemical, Biochemical, and Environmental Engineering

Student(s): **Natalie Steenrod**
Mentor: **Dr. Katherine
Seley-Radtke**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“A Flexible Approach to Treating the Ebola Virus”
Chemistry and Biochemistry

Student(s): **Nicholas Stewart**
Mentor: **Dr. Ivan Erill**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Using Structural Parameters in Transcription Factor
Binding Site Prediction”**
Biological Sciences

Student(s): **Stephanie Stookey**
Mentor: **Dr. Charles Bieberich**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Kineret: A Potential Therapeutic Drug For Chronic
Prostatitis/Chronic Pelvic Pain Syndrome”**
Biological Sciences

Student(s): **Greg Strack**
Mentor: **Dr. Jessica Pfeifer**
Oral Presentation
Eng 023, 11:30 AM

**“A Many-Valued Interpretation of Modal Logic and
Applications for Actualists”**
Philosophy

April 22, 2015

**URCAD Presenters in
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Student(s): Salam Syed
Mentor: **Dr. Shari Waldstein**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Associations of Marijuana Use and Blood Pressure in a
Diverse Sample of Urban-Dwelling Adults”**
Psychology

Student(s): Alexander Szabo
Mentor: **Dr. Linda Oliva**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

“Early Achievement in Primary Source Education”
Education

Student(s): Alexander Szabo
Mentor: **Dr. Robert Rubinstein**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“The Sounds of Shangri-La: Community Radio and
Culture Shift in Rural Nepal”**
Sociology and Anthropology

Student(s): Victoria Taylor, John
Ruth
Mentor: **Dr. Mark Marten**
Oral Presentation
UC 310, 1:45 PM

**“Characterization of High-Secretion *A. nidulans* Mutants
through Chemical Phenotypic Profiling”**
Chemical, Biochemical, and Environmental Engineering

Student(s): Daniel Theisen
Mentor: **Dr. Linda Oliva**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Argumentative Writing Skills in the 12th Grade
Social Studies Classroom”**
Education

Student(s): Phillip Thompkins
Mentor: **Dr. Linda Baker**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Paper or Pixel? The Influence of Metacognition and
Text Format on Student Reading Comprehension”**
Psychology

Student(s): Nicholay Topin,
Nicholas Haltmeyer
Mentor: **Dr. Marie desJardins**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Discovering Portable Options through Automated
Mapping”**
Computer Science and Electrical Engineering

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**URCAD Presenters in
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Student(s): **Ngochan Tran**
Mentor: **Dr. Jeff Leips, Ms. Chia-Hua Lue, Ms. Theresa Hodges**

Poster Presentation

Ballroom, 10:00 AM – 12:00 PM

Student(s): **Queenie Tran**

Mentor: **Dr. Charissa Cheah**

Poster Presentation

Ballroom, 12:00 PM – 2:00 PM

**“The Genetic Basis of Host Defense Traits in the Drosophila
Host-Parasitoid System”**

Biological Sciences

**“The Role of Peer Networks and Maternal Involvement
in Predicting Chinese Immigrant
Children's Socio-Emotional Adjustment”**

Psychology

Student(s): **Krista Trostle,
Zsade Flemming, John Pham,
Matthew Reeping,
Alison Holloway, Adam Kline,
Edward Thang, Tyler Rasmussen**

Mentor: **Dr. Marc Olano**

Poster Presentation

Ballroom, 10:00 AM – 4:00 PM

“Mobile Games as Advertising for Businesses”

Visual Arts

Student(s): **Paul Tschirgi,
Courtney Tyler**

Mentor: **Mr. Doug Hamby**

Artistic Performance

Presentation

PAHB 337, 10:45 AM

“Interactive Performance Mapping”

Visual Arts

Student(s): **Paul Tschirgi,
Courtney Tyler**

Mentor: **Mr. Doug Hamby**

Poster Presentation

Ballroom, 2:00 PM – 4:00 PM

“Interactive Performance Mapping”

Visual Arts

Student(s): **Phoebe Tsoi**
Mentor: **Dr. Marie-Christine**

Daniel

Poster Presentation

Ballroom, 10:00 AM – 12:00 PM

**“Synthesis of Dendronized Nanoparticles for
Intracellular Trafficking Studies”**

Biochemistry and Molecular Biology

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**URCAD Presenters in
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Student(s): Courtney Tyler
Mentor: Ms. Sandra Lacy
Artistic Performance
Presentation
PAHB 337, 11:30 AM

“Swans in an Ugly Duckling World”
Dance

Student(s): Molissa Udevitz
Mentor: Mr. Doug Hamby
Artistic Performance
Presentation
PAHB 337, 11:15 AM

“Ebb & Flow”
Dance

Student(s): Ankur Vaidya
Mentor: Dr. Alison Chetlen
Oral Presentation
UC 310, 11:15 AM

**“Is Breast Center Risk Assessment Clinic Attendance
Improved with a High Risk Recommendation in the
Mammography Report?”**
Biological Sciences

Student(s): Michael Valerino
Mentor: Dr. Christopher
Hennigan
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Development of a Real-time, Highly Time-Resolved
Atmospheric pH Measurement System”**
Chemical, Biochemical, and Environmental Engineering

Student(s): Juliana Venegas
Mentor: Ms. Anissa Sorokin
Oral Presentation
UC 312, 3:00 PM

“Nontraditional Students in the Writing Center”
English

Student(s): Ganna Vikhlyayeva
Mentor: Ms. Cathy Cook
Film Presentation
Eng 023, 2:00 PM

“Close to the Sun”
Visual Arts

Student(s): Jennifer Wachtel
Mentor: Dr. Meredith Oyen
Oral Presentation
UC 312, 10:15 AM

**“An Unlikely Refuge: The Shanghai Jewish Ghetto
during the Rise of Nazism”**
History

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**URCAD Presenters in
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Student(s): Catherine Waddell
Mentor: Dr. Jonathan Singer
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Developing Argumentative Writing Skills in Students in
Grades Six to Eight Through Music Education”**
Education

Student(s): Neha Wali
Mentor: Dr. Suzanne Ostrand-
Rosenberg, Mr. Daniel W. Beury
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“The Transcription Factor Nrf2 is not Required for
Down-Regulating the Adhesion Molecule L-selectin”**
Biological Sciences

Student(s): Matthew Weisman
Mentor: Dr. Jonathan Singer
Poster Presentation
Ballroom, 12:00 PM – 4:00 PM

**“Increasing College Readiness through Student Ability to
Analyze Data”**
Education

Student(s): Mark White
Mentor: Ms. Calla Thompson
Artistic Exhibit
Lobby, 12:00 PM – 4:00 PM

“Infrascapes: A Study of the Invisible”
Visual Arts

Student(s): Jenna Williams
Mentor: Dr. Shuyan Sun
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“The Relation Between Birth Status and Cognitive
Development in Early Childhood”**
Psychology

Student(s): Symone Williams
Mentor: Dr. Christopher Rakes
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“An Introduction to the World of Dance”
Education

Student(s): Tyler Wilson
Mentor: Ms. Linda Oliva
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“The Use of Primary Documents in
Constructing an Essay”**
History

Student(s): Harley Winkler
Mentor: Dr. Cheryl North
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

“Measuring and Drafting in Stage Design”
Education

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



Student(s): **Darryl Wise**
Mentor: **Dr. Christopher Swan**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Differing Rates of Leaf Litter Decomposition of
Common Tree Species in Rivers Draining to the
Chesapeake Bay”**
Geography and Environmental Systems

Student(s): **Michael Wolfe**
Mentor: **Dr. Jason Kestner**
Oral Presentation
UC 310, 4:00 PM

**“Entanglement Dynamics of Singlet-Triplet Qubits in the
Presence of Inductive Coupling”**
Physics

Student(s): **Michael Wonders**
Mentor: **Dr. Christopher Rakes**
Poster Presentation
Ballroom, 2:00 PM – 4:00 PM

**“Improving Mathematical Problem Solving Through
Student Journaling with Guided Questioning”**
Education

Student(s): **Benjamin Woodworth**
Mentor: **Dr. Elaine Rusinko**
Oral Presentation
UC 312, 1:15 PM

**“Media Discourse Surrounding MH17 in the Russian-
Ukrainian Conflict of 2013-14”**
*Modern Languages, Linguistics, and Intercultural
Communication*

Student(s): **Rahel Worku**
Mentor: **Dr. Jessica Berman**
Oral Presentation
UC 312, 3:15 PM

**“The Alien, Alien: Depictions of Race in Star Trek's
Final Frontier”**
English

Student(s): **Grant Wunderlin**
Mentor: **Dr. Michelle Starz-
Gaiano**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

“Putative Function of Calsyntenin-1 in Cell Adhesion”
Biological Sciences

Student(s): **Pauline Xu**
Mentor: **Dr. Elsa Garcin**
Poster Presentation
Ballroom, 10:00 AM – 12:00 PM

**“Mechanism of Post-Translational Modification of
GAPDH by Dithiolethione Compounds Using Tandem
Mass Spectrometry”**
Chemistry and Biochemistry

April 22, 2015

**URCAD Presenters in
Alphabetical Order**



UNDERGRADUATE
RESEARCH
CREATIVE
ACHIEVEMENT **DAY**

Student(s): **Saiah Yates**
Mentor: **Dr. Jeff Leips, Ms.
Mariann Gabrawy**
Oral Presentation
UC 310, 10:00 AM

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

Student(s): **Jasmin Zarb**
Mentor: **Dr. Allen Bush**
Poster Presentation
Ballroom, 12:00 PM – 2:00 PM

**“Confirmation of the Presence of *Streptococcus oralis* in
the Oral Cavity”**
Chemistry and Biochemistry