2016 URSC + PRaISE Conference

Undergraduate Research, Scholarly Endeavors, & Creative Practice + Presentations of Research and Innovative / Scholarly Endeavors

April 22, 2016
Fifth Third Arena
University of Cincinnati
Welcome to the 2016 URSC + PRaISE Conference at the University of Cincinnati!

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Table of Contents

Undergraduate Research Council Members ................................................................. 1

Oral Presentations
Room 329
Social Sciences .............................................................................................................. 2
Room 330
Life Sciences .................................................................................................................. 3
Allied Health .................................................................................................................. 3
McNair .............................................................................................................................. 3
Taft Research Center .................................................................................................... 3
University Scholars ....................................................................................................... 3
Humanities ....................................................................................................................... 3
Room 312
PRaISE ........................................................................................................................... 4

Posters & Displays
Allied Health .................................................................................................................. 5
Engineering ..................................................................................................................... 10
Humanities ................................................................................................................... 12
Life Sciences .................................................................................................................. 13
Nursing ........................................................................................................................... 18
Physical Sciences .......................................................................................................... 22
PRaISE
Advanced Medical Imaging Technology ......................................................................... 25
Audiology ....................................................................................................................... 25
Communication Sciences and Disorders .......................................................................... 25
Dietetics .......................................................................................................................... 28
Health Sciences ............................................................................................................. 29
Medical Laboratory Science .......................................................................................... 32
Social Work .................................................................................................................... 32
Social Sciences .............................................................................................................. 37

Project Evaluators ........................................................................................................ 40

Special Program Index .................................................................................................. 42
The University of Cincinnati’s Council of Undergraduate Research

Jacinda Dariotis  
*College of Education, Criminal Justice, & Human Services*

Fran Larkin  
*Center for Community Engagement*

Debbie Brawn  
*University Honors Program*

Marlene Miner  
*Blue Ash College*

Suzette Combs  
*Student Affairs Gen-1*

Susan Kotowski  
*College of Allied Health Sciences*

Ed Griff  
*McMicken College of Arts & Sciences*

Annie Straka  
*Professional Practice & Experiential Learning*

Donna Martsolf  
*College of Nursing*

Ilya Vilinsky  
*McMicken College of Arts & Sciences*

Michael J Sharp  
*Professional Practice & Experiential Learning*

Robin Selzer  
*Professional Practice & Experiential Learning*

Cheri Westmoreland  
*McNair Scholars, STAR*
Oral Presentations

Room 329

Social Sciences

Moderator: Aaron Bradley

Elizabeth Schmitt, Political Science
Anger or Angst in Western Europe? The Migrant Crisis
12:00-12:15

Laura Benrey, International Affairs
From Distress to Recovery: Evaluation of Intervention Programs for Colombian Demobilized Children
12:15-12:30

Elaine Wallen, Criminal Justice
Risk and Race: Examining the Validity of the Ohio Risk Assessment System Across Racial Groups
12:30-12:45

Helena Hall, Criminal Justice
Trauma-informed Care in Residential Treatment Facilities: Identifying Disparities in Treatment for Survivors of Trauma
12:45-1:00

Joshua Ramos, Criminal Justice
Examining the Potential for Political Biases among Students in Criminal Justice
1:00-1:15

Moderator: Kevin Geiger

Erin O'Callaghan, Psychology
Lessons Learned: Examining Barriers to Participation in an After-School Math Tutoring Program
1:30-1:45

Amanda Covey, Psychology
The Effects of Early Exposure to Written Word on Sensitivity to Statistical Regularities of Sub Word Orthography
1:45-2:00

Moderator: Bala Addepalli

Abel Tekaligne, International Affairs
The Effects of Land Grabbing On Ethiopia’s Oromo Nationalist Movement
2:00-2:15

Alexander Mutnansky, International Affairs
Cold War 2016
2:15-2:30

Leah Carroll, Classics
Muslim Migration & European Responses in Germany and Poland
2:30-2:45
Oral Presentations

Life Sciences

**Moderator: Laura Nabors**

**Maria Ivanekov**, Biological Sciences  
The Role of Stathmin as a Metastasis Suppressor

**Arden Jacobs**, Neuroscience  
Development and Implementation of Natural Language Processing and Machine Learning to Improve School Safety

Allied Health

**Moderator: Laura Nabors**

**Sharita Bone**, Advanced Medical Imaging Technology  
PPMS and MRI: The disease, diagnosis, treatment and research

**Adam Magier**, Health Sciences  
Transcatheter Aortic Valve Replacement: Measuring Procedural Effectiveness through Echocardiography

**Zachary Obrecht**, Biological Sciences  
Can Money Cure Cancer?

McNair Program

**Moderator: Fawen Zhang**

**Nene Ly**, Economics  
Individual Health Expenditures in Senegal

**Jazmine Covington**, Organizational Leadership  
Food Mapping Exercise and Conversation

Taft Research Center

**Moderator: Fawen Zhang**

**Tegan Siereveld**, History  
Modern Women and the Rise of British Drug Culture

**Keavash Assani**, Biological Sciences  
Cross-Sectional Analysis of the Doctor-Patient Relationship in Mexico and the United States

University Scholars

**Moderator: Rose Smith**

**Keavash Assani**, Biological Sciences  
Criminal Injustices of the Hispanic Community

Humanities

**Moderator: Rose Smith**

**Aubrey Burke**, French  
Funding the Arts in the EU: Cherishing the Past or Nurturing the Future?

**Jessica Wilson**, French  
The International Endeavor of Multilingualism in the European Union
Oral Presentations........................................................................................................Room 312

**PRaISE**

**Moderator: Lesley Raisor-Becker**

**Erica Wohlfrom**, Advanced Medical Imaging Technology  
Alzheimer’s Disease: Examining the Stages of the Disease, Diagnosis, and Treatment  
12:00-12:15

**Taylor Perdue**, Advanced Medical Imaging Technology  
Autism Spectrum Disorder: The benefits of an early diagnosis  
12:15-12:30

**Minh Nguyen**, Advanced Medical Imaging Technology  
MRI: Diagnosing Ischemic Stroke  
12:30-12:45

**Stephanie Mitchell**, Advanced Medical Imaging Technology  
The Effects of ADHD on the Brain: An MRI Perspective  
12:45-1:00

**Audrey Bryant**, Advanced Medical Imaging Technology  
Cannabinoids and Glioblastoma Multiforme  
1:00-1:15

**Bridgett Hazenfield**, Advanced Medical Imaging Technology  
Tobacco Use: Examining the Difficulties of Smoking Cessation and Medical Problems  
1:15-1:30

**Sarah Jewell**, Advanced Medical Imaging Technology  
Transcendental Meditation: Observing the Practice with Magnetic Resonance Imaging  
1:30-1:45

**Nicole Lindsley**, Advanced Medical Imaging Technology  
Prostate Cancer: Treatment Effects on Heart Disease and Accompanying Diagnostic Imaging Techniques to Assess Them  
1:45-2:00

**Rebekah Seitel**, Advanced Medical Imaging Technology  
The effects of chronic alcoholism on the frontal lobe  
2:00-2:15

**Moderator: Karen Troup**

**Bridge Parham**, Social Work  
Price Hill Learning Club: A Community Needs Assessment using Photovoice  
2:15-2:30

**Anna Hoffmeister**, Health Sciences  
Beyond Exercise and Good Samaritan Hospital Summer Internships  
2:30-2:45

**Shawn Rampton**, Health Sciences  
Working With Co-Operating Allied Health Professionals To Maximize Patient Care  
2:45-3:00
Posters & Displays

Mentors: Sarah Manchak, Ph.D. and Kim Sperber, Ph.D.

**Autumn Christensen**, Criminal Justice
Evaluating Medicaid policy for opiate-dependent offenders in need of medication-assisted treatments

*Mentor: Megan Patton, M.Ed., RHIA*  
AH1

**Bernie McStay**, Health Information Management Administration
Lost in Translation: The Value of Clinical Documentation for the Busy Physician Office

*Mentor: Megan Patton, M.Ed., RHIA*  
AH2

**Vickie Bargo**, Health Information Management Administration
Computer Assisted Coding: Leading Coders to ACCEPT-ional

*Mentor: Megan Patton, M.Ed., RHIA*  
AH3

**Desiree McCann**, Health Information Management Administration
Patient Data Accuracy, It's Everybody's Responsibility!

*Mentor: Megan Patton, M.Ed., RHIA*  
AH4

**Arlene Brockenborough**, Health Information Management Administration
Take a Stand for Data Security

*Mentor: Megan Patton, M.Ed., RHIA*  
AH5

**Deborah Stewart**, Health Information Management Administration
Putting the "hook" in Phishing

*Mentor: Megan Patton, M.Ed., RHIA*  
AH6

**Kelly McClure**, Health Information Management Administration
Mobile Mishaps: Ensuring Mobile Security

*Mentor: Megan Patton, M.Ed., RHIA*  
AH7

**Michael Morrison**, Health Information Management Administration
Information Governance: An Expanding Opportunity for Health Information Management Professionals

*Mentor: Megan Patton, M.Ed., RHIA*  
AH8

**Nicole Rodrigues**, Health Information Management Administration
Information Governance: A Common Goal Requiring Collaborative Effort

*Mentor: Megan Patton, M.Ed., RHIA*  
AH9

**Angela Dust**, Health Information Management Administration
You Spy, Everyone Spies!
Posters & Displays

Mentor: Megan Patton, M.Ed., RHIA

Nora Turski, Health Information Management Administration
Stolen Identity: Is your Medical Identity Safe?

Julie Ewald, Health Information Management Administration
Telehealth: Healthcare Without Traveling

Gretchen Moore, Health Information Management Administration
Health Information: The Basics of Accessing and Updating your Medical Records

Ann White, Health Information Management Administration
Best Practice: EHR Copy and Paste, If in YOUR record, an asset or a liability?

Karen Ornelas, Health Information Management Administration
Hello? Is There a Patient Advocate in the HOUSE?

Erica Garcia, Health Information Management Administration
PENALTIES: Meaningful Use Stage 2

Sara Crevar, Lauren Schiefer, Kelli Harmon, & Austin Miller, Health Sciences
Push-up Form Muscle Activation

Nisha Patel, Kara Burns, Sarah Walker, Deanna Wiese, & Caroline Pickering,
Health Sciences
The effects of fatigue and backpack positioning while carrying a loaded backpack on posture and muscle activation

Emily Rodriguez, Health Sciences
Wellness Counselor

Anna Hoffmeister, Gabby Garcia, & Kazuya Ochi, Health Sciences
Foam Rolling vs PRT stretches in the Army ROTC Population
Posters & Displays

Mentors: Carney Sotto, Ph.D., Elizabeth Lokon, Ph.D., and Sandra Combs, Ph.D.
Alexis Bishop, Mary Clifford, Livia Sabato, Emily Schaar, Alisha Poundstone,
Michaela Bridge, & Jessica Levy, Communication Sciences and Disorders

AH21

Opening Minds Through Art: A Life Learning Experience

Mentor: Susan Kotowski, Ph.D., CPE

Madelyn Nemann, Reid Becker, Caroline Pickering, Wallace Dalton, Nisha Patel,
Zachary Petrosky, Jenna Bovenzi, Allison Nash, Robbie Schwartz, Kirk Gothhard,
Joseph Najdovski, Matt Egle, & Eric Meehan, Health Sciences

AH22

Cincinnati MDA Camp

Mentor: Susan Kotowski, Ph.D., CPE

Kelsey Girard, Taylor Nedirch, Nicole Kovach, Kyle Walker, & Jenna Byrne,
Health Sciences

AH23

The Effect of Arm Position During a Plank on Core Muscle Activation

Mentor: Bruce Ault, Ph.D.

Melanie Jeffries, Health Sciences

AH24

Sample Preservation and Stability of Nitrite, Nitrate, and Ammonia

Mentor: Susan Kotowski, Ph.D., CPE

Daniel Braswell, Joseph Najdovski, Erin Celesti, Chris Lamm, Wallace Dalton, &
Zachary Petrosky, Health Sciences

AH25

Assessment of Neuromuscular and Kinematic Risks of Non-Contact Knee Injury During Perturbed Versus
Unperturbed Jumping and Landing

Mentors: Robert Mangine, M.Ed., Joseph Clark, Ph.D., and Kimberly Hasselfeld, M.S.
John Detherage, Health Sciences

AH26

University Honors Program

On Field Physiological Monitoring of Division I athlete During ACL Tear. A Case Study of the Objective Measure of
Fatigue

Mentors: Clifford Larrabee, Ph.D. and Edwin Griff, Ph.D.

Alyssa Amato, Biological Sciences

AH27

Encapsulated Micelles for Targeted Drug Delivery: Tuning for Loading Capacity

Mentor: Susan Kotowski, Ph.D., CPE

Christina Higgins, Kaisy Brandenburg, & Megan Clark, Health Sciences

AH28

Effects of ankle support and strengthening with static and dynamic stability
Posters & Displays..................................................Allied Health

Mentors: Susan Kotowski, Ph.D., CPE, Jennifer Angeli, Ph.D., and Jason Long, Ph.D.

Matthew Kanetzke & Brooke Stewart, Health Sciences
AH29
Patient Populations, Technologies, and Care Planning in a Motion Analysis Lab

Mentor: Thomas Herrmann, Ed.D.

Kara Burns, Kelsy Girard, Jill Higgins, Briana Rullmann, Kaisy Bradenburg, & Sarah Walker, Health Sciences
AH30
MDA Camp Indianapolis

Mentor: Susan Kotowski, Ph.D., CPE

Zachary Sacko, Health Sciences
AH31
Northern Kentucky University: Strength and Conditioning

Mentors: Lisa Kelchner, Ph.D., Suzanne Boyce, Ph.D., and Keiko Ishikawa, M.A.

Erin Deeds, Communication Sciences and Disorders
AH32
Intelligibility variability among normal speakers: Landmark-based analysis

Mentor: Susan Kotowski, Ph.D., CPE

Jordan Gingery & Devon Burton, Health Sciences
AH33
Assessing the Psychological Influence on Maximal Repetitions during a Bench Press

Mentor: James Wells, Ph.D.

William Stone, Food and Nutrition
AH34
mTOR Signaling is Required for Postnatal Pancreatic Islet Morphogenesis and Maturation

Mentor: Peter Scheifele, Ph.D.

Anne Pace, Communication Sciences and Disorders
AH35
Vocal Patterns of King Penguins

Mentor: Susan Kotowski, Ph.D., CPE

Megan Clark, Health Sciences
AH36
High School Sports Medicine

Mentor: Suzanne Boyce, Ph.D.

Brittany DeMott, Communication Sciences and Disorders
AH37
Coarticulating Voicing Features of Spanish Trill

Mentor: Susan Kotowski, Ph.D., CPE

Kelli Harmon, Health Sciences
AH38
Emergency Medical Technician Experience
Posters & Displays ......................................................... All Allied Health

Laurel Cooney, Health Sciences
A life changing culturally diverse experience in the world of Occupational Therapy

Mentor: Thomas Herrmann, Ed.D. AH39

Branden Goodin, Biological Sciences
Induced Apoptosis of Pro-Oxidant Melanoma Cells Treated with A100

Mentors: Ana Kaderkar, Ph.D. and Edward Merino, Ph.D., AH40

Sarah Dawes, William Magill, Jenna Bovenzi, Meagan Gulmi, & Cayla Quallen, Health Sciences
The accuracy of Step and Distance Tracking Devices

Mentor: Susan Kotowski, Ph.D., CPE AH41

Lauren Lewis, Aimee Barnes, & Megan Krug, Health Sciences
Biomechanical Efficiency Post Knee Reconstruction

Mentors: Dao Pan, Ph.D. and Susan Kotowski, Ph.D., CPE AH42

Kevin Rose, Health Sciences

University Honors Program
Lentiviral-Mediated Genetic Manipulation of miR-143 Expression in Brain Endothelial Cells

Mentor: Susan Kotowski, Ph.D., CPE AH43

Samuel Brink, Health Sciences
The comparison of Zerbaxa and Avycaz, two new antibiotics developed for the treatment of Pseudomonas Aeruginosa

Mentor: Susan Kotowski, Ph.D., CPE AH44

Emily Sexton, Biological Sciences
Degranulation of Mast Cells

Mentor: Douglas Boettner, Ph.D. AH45

Hannah Wille, Biological Sciences
Orphan GPCRs as Prognostic Biomarkers for Glial Cell Tumors

Mentors: Marc Rothenberg, M.D., Ph.D., Matthew Eilerman, B.S., and Melissa Mingler, B.S. AH46

Bah Isatu, Transfusion and Transplantation Sciences

McNair Program
Translational Effect of Cadherin-26 Protein in 3’ UTR Region

Mentors: Marc Rothenberg, M.D., Ph.D., Matthew Eilerman, B.S., and Melissa Mingler, B.S. AH47
**Posters & Displays**

**Courtney Collins & Madison Taylor**, Biochemistry  
*WISE Program*  
Novel Nanoparticle Development for Controlled Drug Release with Ultrasound Imaging Monitoring  
*Mentor: Yoonjee Park, Ph.D.*  

**Gabrielle Cook**, Environmental Engineering  
*University Honors Program, WISE Program*  
Understanding Trends in Cincinnati’s Air Pollution (UTICAP)  
*Mentor: Sivaraman Balachandran, Ph.D.*

**Kyle Weeks**, Chemistry – ACS  
Convergence of a Sequence  
*Mentor: Catherine Lane, Ed.D.*

**Rickey Terrell**, Chemical Engineering  
Use of 195Pt NMR to Monitor the Dynamic Evolution of Chemical Structure during Nanoparticle Synthesis  
*Mentor: Anastasios Angelopoulos, Ph.D.*

**Patricia Ladipo**, Chemical Engineering  
*McNair Program*  
First year experience with the Freshman S-STEM Scholars program  
*Mentors: Anant Kukreti, Ph.D. and Greg Saylor*

**Macen Cancino**, Chemical Engineering  
Benefits of the Freshman Scholarships in STEM (SSTEM) Program  
*Mentors: Anant Kukreti, Ph.D. and Greg Saylor*

**Chara Hood**, Chemical Engineering  
An Early Bird Rising To Success  
*Mentor: Jeffrey Kastner, Ph.D.*

**Ananya Nijhawan, John Ball, & Hung Nguyen**, Computer Science  
*University Honors Program*  
Using Computer Simulation to Optimize a Traffic Intersection  
*Mentor: Jeffrey Kastner, Ph.D.*

**Evan Burke, Andy Trenaman, & Tobin Anderson**, Aerospace Engineering  
*University Honors Program*  
Numerical Modeling of the Acoustic Wave Equation  
*Mentor: Jeffrey Kastner, Ph.D.*
Posters & Displays

**John Tallant, Ryan Newsom, & Eric Phillips**, Electrical Engineering
*University Honors Program*
Traffic Shockwave Effect Simulation

*Mentor: Kathleen Ossman, Ph.D.*

**Robert Becker, Scott Shilling, Erik Klose, & Rishabh Ravindra**, Biomedical Engineering
*University Honors Program*
The Effect of Nicotine on the Atrioventricular Action Potential

*Mentor: Whitney Gaskins, Ph.D.*

**Nathaniel Jung, Tathan Tiffany, Emily Piatt, & Saylee Dharne**, Environmental Engineering, Exhibit Piece
*University Honors Program*
MATLAB Algorithmic Pathways (MAP)

*Mentor: Gregory Bucks*
Posters & Displays

Mentors: Bonnie Fisher, Ph.D. and Sarah Manchak, Ph.D.

Rachael Ratay, Criminal Justice
Understanding Modes and Effects of Drugging: Reddit Users’ Descriptions

Mentor: Michele Vialet, Ph.D.

Brenna Sweeney, International Affairs
The Impact of International Organizations: The Trickle-Down Effect of Economics and Human Rights

Mentors: Angie Thielo, Ph.D. and Sarah Manchak, Ph.D.

Dominique Greene-Coleman, Criminal Justice
Drug Crime Seen as a Threat to Social and Political Order

Mentor: Michele Vialet, Ph.D.

Maria Carroll, International Affairs
The European Union and Syria: How their Rapidly Changing Relationship Affects the EU and its People and a European Response to the Syrian Crisis

Mentor: Casey Hord, Ph.D.

Julie Hendricks, Special Education
Mathematical Conversations about Algebra II Concepts with a Student with LD

Mentor: Daniel Lin, Ph.D.

Sabria Berry, Psychology
STARS Program
Shared genetic profiles of autism and medications to identify gene-drug interactions

Mentor: Laura Nabors, Ph.D.

Mary Devlin & Michael Brackett, Health Education
Evaluation of Healthy Bearcats After-School Program

Mentor: Sarah Manchak, Ph.D.

Jherlynn Tims, Criminal Justice
The Influence of Gender Substance Use Treatment Outcomes
Posters & Displays

Ian Castro, Geology
Does vegetation removal influence bioavailable strontium isotope ratios (87Sr/86Sr)?
Mentor: Brooke Crowley, Ph.D.

Hannah Adams, Biological Sciences
Tracing loss-of-function genetic mutations in surface- and cave-dwelling forms of Astyanax mexicanus
Mentors: Ilya Vilinsky, Ph.D. and Masaki Ueno, M.A.

Madija Sandy & Ciara Anderson, Neuroscience
Yoshida Research Lab-Developmental Biology at CCHMC
Mentor: Daria Narmoneva, Ph.D.

Luke Knudson, Biomedical Engineering
Determining the Effect of Direct Current Electric Field on Fibroblast Response in an In Vitro Wound Healing Model
Mentor: Ilya Vilinsky, Ph.D.

Nicole Klass, Biological Studies
A Multi-lab Comparative Evaluation of an Isothermal Molecular Detection Assays for the Detection of Salmonella in Ground Beef
Mentor: Joshua Gross, Ph.D.

Erin Davis, Biological Sciences
Exploring hidden relationships among morphological traits in blind Mexican cavefish
Mentors: Balu Addepalli, Ph.D. and Patrick Limbach, Ph.D.

Vanessa Short, Biochemistry
Cytidine-specific ribonuclease for characterizing nucleoside modifications in RNA
Mentor: Patrick Limbach, Ph.D.

Alex Beiersdorfer, Chemistry
Ribonuclease Activity Screening of RNase U2 Mutants by Toluidine Blue
Mentor: Joshua Gross, Ph.D.

Shane Kaplan, Biological Sciences
An epistatic interaction between vision loss and hypermelanism in Astyanax mexicanus cave x surface hybrids
Mentor: George Stan, Ph.D.

Andrew Schirmer, Chemistry
SERCA inhibitors to use as potential drugs as well as tools to study the SERCA function: Binding free energy computation using FEP/MD
Mentor: Matia Solomon, Ph.D.

Andrew Birkenhauer, Neuroscience
Neuroendocrine and Behavioral Effects of Cort 118335
Mentors: Jack Rubinstein, M.D. and Sheryl Koch, Ph.D.

Evan Onusko, Biological Sciences
TRPV2 Stimulation Improves Cardiac Function in Peripartum Cardiomyopathy induced by S10F Mutation of Heat Shock Protein 20
Posters & Displays

Bridgette Kremer, Biological Sciences
Behaviorally assessing the spectral sensitivity of the Atlantic sand fiddler crab, Uca pugilator
Mentors: Charles Vorhees, Ph.D., Michael Williams, Ph.D., and Arnold Gutierrez

Anna Barnes, Neuroscience
The neurobehavioral effects of methamphetamine and chronic mild stress

Martha Asiedu, Biological Sciences
Moyamoya disease: genetics and treatment

Hannah Gazy, Biological Sciences
Europe’s Progressive Involvement in Biomedical Research and Antibiotic Resistance

Elizabeth Hanson, Biological Sciences
Comparison of Frequencies: Noting the differences of acoustical communication between Hippocampus abdominalis and Phycodurus eques during times of feeding.
Mentors: Andrew Rosendale, Ph.D. and Joshua Benoit, Ph.D.

Megan Dunlevy, Biological Sciences
SURF Program
Mechanisms Underlying Extended Starvation Tolerance in the American Dog Tick

David Farrow, Biological Sciences
Overwintering Environmental Conditions and Cold Hardiness of American dog tick larva
Mentors: Addepalli Balasubrahmanyam, Ph.D. & Patrick Limbach, Ph.D.

Adrianne Cornette, Chemistry
Production of stable isotope (15N) labeled ribonucleosides in E. coli
Mentors: Stephen Matter, Ph.D. & Megan Lamkin, Ph.D.

Brittany Chin, Neuroscience
The ability of a single-celled organism to learn in response to electrical shock
Mentors: Elke Buschbeck, Ph.D. & Annette Stowasser, Ph.D.

Madeline Owens, Neuroscience
A new vision test in several arthropods suggests that visual input may not be necessary to accomplish correct focusing
Mentor: Stephen Matter, Ph.D.

Jennifer Goff & Catherine Yerke, Environmental Studies
The direct and indirect effects of climate on the dispersal of an alpine butterfly
Mentor: George Uetz, Ph.D.

Breanna Bohan, Biological Sciences
The effects of dopamine on mating behavior in a wolf spider
Posters & Displays

Mentors: Michael Preston, Ph.D. & Nick Moriano, Ph.D.

**Seth Nuckols**, Biological Sciences
Bacterial Succession of Lactic Acid Producing Bacteria in Natural Fermentation & The Speed At Which pH Levels drop Below 5.00

**Erica Rosselot**, Biological Sciences
The Roles of Lgi3 and Lrrc7 in the Development of the Conducting Airways

**Catherine Yerke**, Biological Sciences
Edge effects of Parnassius smintheus: differences in tree line avoidance based on sex

Mentors: Edward Merino, Ph.D., Bruce Ault, Ph.D., & Daniel Buchholz, Ph.D.

**Matthew Patmann**, Biochemistry
Production of Adrenocorticotropic Hormone Knockout Xenopus tropicalis and Validation of Germline Transmission with the Objective of Rendering a Breeding Stock of Heterozygous Mutants

**Taiwo Oyadiran**, Biological Sciences
*WISE Program*
Trace Metal Availability under early Earth conditions

Mentor: Trinity Hamilton, Ph.D.

**John Grossheim**, Biological Sciences
Comparison of field preservation methods of plant material for downstream DNA sequencing applications

Mentor: Joshua Benoit, Ph.D.

**John Cavanaugh**, Biological Sciences
Difference in Survival in Diploptera Punctata in Group Living vs. Isolated Living

Mentor: George Uetz, Ph.D.

**Jordanne Mitchell**, Biological Sciences
Does experience with predator cues lead to habituation in Schizocosa ocreata?

Mentor: Eric Tepe, Ph.D.

**Lindsey Miller**, Biological Sciences
“Root beer plant” and its relatives: a molecular phylogeny of Piper sect. Pothomorphe

Mentors: Ron Huston, Ph.D. & Edward Merino, Ph.D.

**Craig Slusher**, Biological Sciences
Numerical Simulations of Cellular Microtubule Vibrations

Mentors: Michal Polak, Ph.D. & Lauren Titus, Ph.D.

**Chelse Spinner**, Biological Sciences
Do Host Organisms Alter Feeding Behavior in Response to Parasitism?
Posters & Displays ................................................................. Life Sciences

Mentors: John Morris, M.D. & Kamdem Toukam Donatien, Ph.D.

Christian Carwell, Biological Sciences
Generation of murine lung and head and neck cancer cells for in vivo monitoring of orthotopic tumors

Mentor: Christina Gross, Ph.D.

Nada El-Sayed, Neuroscience
WISE Program
microRNA Regulation of the Kv4.2 complex

Mentors: Balasubrahmanyam Addepalli, Ph.D. & Patrick Limbach, Ph.D.

Eman Mureb, Chemistry
Purification of single tRNA species by high affinity protein tools

Mentor: Peng Zhan, Ph.D.

Jiaolong Li, Chemistry
Modification of particles surface for SERS based detection with improved sensitivity

Mentor: Joshua Benoit, Ph.D.

John Cavanaugh, Biological Sciences
Differences in the survival rates for Diploptera punctata nymphs when held under solitary or group conditions

Mentor: Minh-Thanh Nguyen, Ph.D.

Uyen Tran, Biochemistry
University Honors Program
Light-modulated Opn4 through Dopamine

Mentor: Laura Conforti, Ph.D.

Michael Arnold, Biomedical Engineering
University Honors Program
Enhanced inhibition of chemotaxis by adenosine in the peripheral blood T cells from head and neck cancer patients

Mentor: Pearl Tsang, Ph.D.

Ian Healy, Biochemistry
DNAzyme cleavage of hKtRNA: Towards production of site-specifically labeled RNAs for NMR studies

Mentor: Trinity Hamilton, Ph.D.

Ian Huffer, Biological Sciences
Effect of Various Nitrogen Sources on Growth of Microcystis aeruginosa Strains

Mentor: Wilhelm Kossenjans, Ph.D.

Jennifer Kendrick, Biological Sciences
University Honors Program
Development of An Antibiotic Resistance Library of Known Fecal Isolates for Comparison to Watersheds

Mentor: Rose Smith, Ph.D.
Posters & Displays

Life Sciences

Aria King, Biological Sciences
Cellular Changes During Medial Tibial Stress Syndrome: Application to a Case Report

Mentors: Ilya Vilinsky, Ph.D., Christopher Dandoy, Ph.D., & Kasiani Myers, Ph.D.

Abigail Pate & Kristen Francis, Neuroscience
Prospective Study Evaluating the Effects of Sleep Disruption in Children and Young Adults Undergoing Stem Cell Transplant

Mentor: Charles Caldwell, Ph.D.

Kirsten Boone, Biological Sciences
University Honors Program
Lung Microparticles Act as an Antimicrobial in Injured Mice

Mentor: Edward Griff, Ph.D.

Kora Flath, Biological Sciences
SURF Program
Epstein-Barr Virus Contributes to Rheumatoid Factor Positive Juvenile Idiopathic Arthritis

Mentor: Tori Schaefer, Ph.D.

Jessica Reinhardt, Biological Sciences
Ketamine Treatment for Autism

Mentor: Grant Schulert, M.D., Ph.D. & Sherry Thornton, Ph.D.

Rachel Tan, Biological Sciences
WISE Program
Analysis of CD163 mRNA in Macrophages for Systemic Juvenile Idiopathic Arthritis

Mentor: David Hui, Ph.D.

Elijah Rouse, Biological Sciences
Determination of novel inhibitors of the Human Phospholipase A2 enzyme (PLA2G1B).

Mentor: Rohit Kohli, MBBS, MS

Danielle Ferguson, Biological Sciences
STARS Program
The Role of FGF19 in Intestinal Adaptation After VSG

Mentor: Mindy Call

Mohamed Elzarka, Neuroscience
SURF Program
Use of human umbilical cord mesenchymal stem cells to treat congenital and acquired corneal opacity

Mentor: Ron Huston, Ph.D.

John Zucal, Biological Sciences
Research Methods Used to Identify the Over Duplication of Centrioles in Cancer Cells

Mentor: Anil Menon, Ph.D. & Leah Kottyan, Ph.D.

Savannah Glenn, Biological Sciences
Revisiting “Slave Hypothesis” of hypertension using new genomic methods

Mentor: Steve Danzer, Ph.D.

John Liska, Biological Sciences
Ablation of adult-generated hippocampal granule cells has disease-modifying effects in epilepsy
Posters & Displays

Mentor: Jeanine Goodin

Steven Rheame, Kaitlyn Dillon, Joseph Storey, Katlyn Seimet, & Emily Fowler, Nursing
Transforming iCon into iCaN

Mentor: Jennifer Lakeberg, MSN

Anna Barhorst, Courtney Bobbitt, Nicole Greenwood, Michelle Bruns, Elena Leo, Taylor Fitzgerald, & Madeline Brunsman, Nursing
Safe Sleep/SIDS

Mentors: Carolyn Smith, Ph.D., & Karen Bankston, Ph.D.

Morgan Fuller, Jeff Maler, Patricia Ramirez, Amanda Harris, Julie Berardinis, & Stephanie Wyborski, Nursing
Exploring Best Practices for Cultural Competency in Nursing Education

Mentors: Jennifer Lakeberg, MSN, & Carolyn Smith, Ph.D.

Alexandra Wilkens, Sarah Thomas, Abby Schreiber, Megan Onorato, Laura Harsnett, Megan Kowalski, & Taylor Delrue, Nursing
Does delayed cord clamping versus immediate cord clamping at the time of birth have increased health benefits to the neonate?

Mentor: Carolyn Smith, Ph.D.

Katelyn Bramble, Elizabeth Wessel, McKenzie Hohlbaugh, Rebecca Freudiger, Erin Kissinger, & Nicole Bondy, Nursing
Mentoring Programs: The Benefits for Undergraduate Nursing Students

Mentors: Carolyn Smith, Ph.D., & Jennifer Lakeberg, MSN

Hannah Green, Bianca Lee, Morgan Peterman, Annie Ward, Melanie Zinser, Erin Hennard, Anna Deutsch, & Rachel Hopkins, Nursing
Telehealth in Healthcare

Mentors: Carolyn Smith, Ph.D., & Jennifer Lakeberg, MSN

Brittney Brohier, Edwin Allgeier, Robbie Thomas, Lindsay Berger, Kaitlyn Lipker, Jake Nester, & Will Imhoff, Nursing
Early Intervention: Evaluating the Effectiveness of a High School Substance Abuse Prevention Program

Mentor: Carolyn Smith, Ph.D.

Rachel Markley, Emily Foster, Andrea Mackenzie, Alison Jakubecz, Caitlin Davis, Kathleen Melhus, Gabby Custer, Nursing
The Dominican Republic Nursing Brigade 2015

Mentors: Carolyn Smith, Ph.D., & Jennifer Lakeberg, MSN

Grace Birmingham, Heather Roberts, Jacquelyn Schnackel, Amber Ancipink, Lindsey Spearman, & Kayleen Peterman, Nursing
Use of Technology in Nursing Education
Posters & Displays

Andrea Heckle, Matt Koessel, John Opdycke, Danielle Linz, Jennifer Leonardi, Ruth Park, Melanie Baxter, & Holly Flick, Nursing
Maple Knoll Smart House Device Control System  
Mentor: Jennifer Lakeberg, MSN, & Carolyn Smith, Ph.D.

Mallory Widecan, Laura Campbell, Kaysi IsnerMegan Bottermueller, Louise Courtland, Nicolette Ferguson, & Erin Belch, Nursing
Medicinal Honey on Effects on Healing Rates and Sizes of Skin Ulcers in the Adult Population  
Mentor: Carolyn Smith, Ph.D.

Kayla Smith, Sarah Weitzel, Tracey Brignole, Holly Weaver, Rachel Hoff, Yazmin Villaquiran, Claire Beargie, & Morgan Greeley, Nursing
Nursing Role in Medication Adherence in Mental Health Patients  
Mentors: Carolyn Smith, Ph.D., & Jennifer Lakeberg, MSN.

Kristen Banks, Kayla Oldiges, Kristen Ledingham, Holly Anderson, Nick Conklin, Maria Pierce, Jennifer Hutt, Sae Kim, Chelsea Carter, & Jennifer St. John, Nursing
Educating Across Cultural Barriers: Pre-Diabetes and Fatty Liver Disease  
Mentor: Esta Butts, DNP

Lauren Jacoby, Kayla Dance, D'Dra Bailey, & Lauren Sackett, Nursing
The Effectiveness of Age Appropriate Hand Hygiene Education Among 6-8 Year Old Children  
Mentors: Carolyn Smith, Ph.D., & Angela Clark, Ph.D.

Christina Crouthers, Shelbie Stroud, Laura Ard, Emily Mason, Jessica Sharkey, & Samantha Weckesser, Nursing
Narcan Education and Preparedness Strategies  
Mentor: Esta Butts, RN

Cathryn Murphy, Heather Hoge, Maxwell Hegge, & Kelly Shahan, Nursing
To Vape or Not to Vape  
Mentor: Carolyn Smith, Ph.D.

Kaleb Griffin, Michael Almond, Toni Caldwell, Kierstyn Daiker, Deanna Sipple, & Corrine Whitley, Nursing
Could modifications of the current Cincinnati Children's "World of Diabetes" teaching curriculum improve transition from pediatric to adult type 1 diabetes self-care?  
Mentor: Carolyn Smith, Ph.D.

Morgan Albert, Desiree Dutro, Hailee Young, Courtney Ward, Kristin Warren, & Brittany Parrett, Nursing
Best evidence based practice on VBAC deliveries using induction  
Mentor: Vernita Smith, Ph.D.

Courtney Megie, Trisha Riley, Kristina Barbour, & Sherri Steele Cooper, Nursing
Substance Abuse Prevention Education  
Mentor: Carolyn Smith, Ph.D.
Posters & Displays

Mentor: Jennifer Lakeberg, MSN
Tailor Chrisman, Laura Zink, Lara Rodeffer, Sydney Gatta, Amelia Wegman, & Alex Junker, Nursing
Nurse Residency Programs

Mentor: Debbie Schwytzer, DNP
Krysten Flick, Davina Campbell, Aidan Javed, Karla Park, Jean Yonga, & Felicia Reese, Nursing
Effective Blood Pressure Control After Acute Ischemic Stroke

Mentors: Jennifer Lakeberg, MSN, Carolyn Smith, Ph.D., & Nick Denlinger, RN
Christina Pohlman, Claire Rickner, Darrian Fisher, Jennifer Osher, Madison Baxter, Kiersten Temple, & Zachary Hilderbrand, Nursing
Family Presence During Resuscitation

Mentor: Melanie Kroger-Jarvis, Ph.D.
Margaret Gerwe, Janki Patel, Brittani Kohls, Lauren Schneider, Stephanie Lang, Caity Patrick, Erin Berger, & Ericka Hegrat, Nursing
Acuity Models in the Emergency Department

Mentor: Vernita Smith, Ph.D.
Alexa Owens, Hannah Walsh, Skyler Sowry, Megan Daumeyer, & Chloe Lattimer, Nursing
The Disease of Addiction: A Focus on Heroin

Mentor: Carolyn Smith, Ph.D.
Eva Gipson, Nicole Faith, Mary Lunsford, Haley Lippmeier, & Tyler McNealy, Nursing
Patient Satisfaction with Hospital Room Cleanliness: Implementing Cleaning Rounds

Mentor: Debi Sampsel, MSN
Brian Smith, Kyle Woodward, Morgan Farmer, Annie Volmer, Kalpana Pandey, Cole Upton, & Emily Smith, Nursing
Maple Knoll Body Mechanics and Ergonomics

Mentor: Esta Butts, MSN
Karen Lovins, Mary Ruege, Kari Hubbard, Savannah Mercedes, & Megan Huber, Nursing
Safe Sleep Saves

Mentor: Carolyn Smith, Ph.D.
Lindsey Frantz, Nursing
STARS Program
Decreasing Workplace Violence Among Asian Americans in Retail Related Positions: A Qualitative Study

Mentor: Donna Shambley-Ebron, Ph.D.
Jessica Luong, Nursing
Health Disparities in Liver Transplant Outcomes
Posters & Displays

Acacia Leslie, Nursing
Diversity in Nursing

Mentor: Kimberly McGinnis
N30

Kim Lohbeck, Nursing
Predictors of Cognitive Function in Blacks and Whites

Mentor: Trudy Gaillard, Ph.D.
N31

Annastacia Warren, Calli McGarvey, Desirae Partin, Tiffini Cunningham, Victoria Fields, & Stacy Conley, Nursing
Spacing Pregnancies to Decrease the Incidence of Infant Mortality: An Educational Intervention

Mentor: Cynthia Nypaver, Ph.D., & Carolyn Smith, Ph.D.
N32

Natalie Breuer & Gordon Gillespie, Nursing
Evaluating Environmental Risks for Workplace Violence in Emergency Departments

Mentor: Gordon Gillespie, Ph.D.
N33

Destini Thomas, Nursing
WISE Program
Positive Unique Outcomes by Teens Who Experience Dating Violence

Mentor: Donna Martsolf, Ph.D.
N34

Sean Brown, Nursing
Inclusion In Action Book Club The Other Wes Moore

Mentor: Gordon Gillespie, Ph.D.
N35
Posters & Displays

Emily Cigolle, Geology
LINKING SEDIMENT TO ITS SOURCE WITH THERMOCHRONOLOGY: TOBAGO BASIN, SOUTHEAST CARIBBEAN

Mentors: Anna Gudmundsdottir, Ph.D., & Anushree Das

Kelsey Griffin, Chemistry
Photo-Michael Reaction to Synthesize a Natural Product

Mentor: Jenny Arkle, Ph.D.

Mark Bovee, Chemistry
Surface Catalyzed [2+1] Types of Cyclopropanation and Cyclopropenation Reactions Facilitated By High-Speed Ball-Milling

Mentor: James Mack, Ph.D.

Hai Dong, Chemistry
Synthesis and Characterization of a new POCOP type pincer complex of Nickel

Mentor: Hairong Guan, Ph.D.

Andrew Yankosky, Chemistry
Crown Ether-based Host Rotaxanes as Cancer Cytotoxic Agents

Mentors: Steve Potter, Ph.D., & Bliss Magella

Cory Newland, Biological Sciences
Single cell analysis of the embryonic kidney

Mentor: David Smithrud, Ph.D.

Madeline Grote, Biochemistry
Synthesis of Peptides as Target Vectors for Rotaxanes

Mentor: David Smithrud, Ph.D.

Nouras Algalayini, Chemistry
Reducing Hazardous Waste in a Mechanochemical Esterification Reaction

Mentors: David Smithrud, Ph.D., & Lucas Powers

Blake Linville, Chemistry
Selectively Cleavable Axles for Use in Rotaxane Synthesis

Mentor: Ruxandra Dima, Ph.D.

Jessica Burke, Biochemistry
WISE Program
The Role of Cofactors in Breaking Down Microtubules

Mentor: Michael Sitko, Ph.D.

Victoria Hammond, Chemistry
University Honors Program
Stellar Spectroscopy of V960 Mon

Mentor: Ruxandra Dima, Ph.D.

Katherine Blazic, Chemistry
In Silico Exploration of The Mechanism of Microtubule Severing Proteins

Mentor: Ruxandra Dima, Ph.D.
<table>
<thead>
<tr>
<th>Title</th>
<th>Mentor</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of a SERS Active Substrate by Incorporation of Gold</td>
<td>Peng Zhang, Ph.D.</td>
<td>P13</td>
</tr>
<tr>
<td>Nanoparticles into Polymer Films</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Dynamics Simulations of Protein Unfolding and Translocation</td>
<td>George Stan, Ph.D.</td>
<td>P14</td>
</tr>
<tr>
<td>by the ClpY ATPase in the Protein Degradation Pathway</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coarse-Grained Simulations of an Immunoglobulin Protein Unfolding</td>
<td>William Connick, Ph.D., &amp; Behzad Karimi</td>
<td>P15</td>
</tr>
<tr>
<td>and Translocation Mediated by AAA+ Biological Nanomachines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-Assembly of Nanofibers Based on Platinum(II) Complexes</td>
<td>Laura Sagle, Ph.D.</td>
<td>P16</td>
</tr>
<tr>
<td>DNA Hybridization Detection with Patterned Nanoparticle Arrays</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changes in land snail body size as a function of environmental and</td>
<td>Allison Young</td>
<td>P18</td>
</tr>
<tr>
<td>climatic factors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Late Ordovician (Sandbian-Katian) Gamma Ray Spectrometry: High-</td>
<td>Anna Gudmundsdottir, Ph.D.</td>
<td>P19</td>
</tr>
<tr>
<td>Resolution Correlation of the Cincinnati, Ohio Subsurface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The mechanistic study of photochemistry of 2,2-diazido-2,3-dihydro</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inden-1-one</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synthesis of 18 crown 6 rotaxane</td>
<td>David Smithrud, Ph.D.</td>
<td>P21</td>
</tr>
<tr>
<td>Investigation of Host-[2]Rotaxane Binding Affinity for Metal Cations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synthesis of POCOP NiCl Complexes using Microwave Technology</td>
<td>Laura Sagle, Ph.D., &amp; Sarah Unser</td>
<td>P22</td>
</tr>
<tr>
<td>Localized Surface Plasmon Resonance near Molecular Resonances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mediated via Click Chemistry for Sensitive Copper Detection</td>
<td>Julio Landero Figueroa, Ph.D.</td>
<td>P24</td>
</tr>
<tr>
<td>The effects and interactive relationship between Arsenic and Selenium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>in an Aquaponic system</td>
<td></td>
<td>P25</td>
</tr>
</tbody>
</table>
**Posters & Displays...............................................................Physical Sciences**

**Marilyn Clark, Chemistry**  
SELENIUM ACCUMULATION AND SPECIATION WITHIN AN AQUAPONIC SYSTEM  
*Mentor: Julio Landero Figueroa, Ph.D.*  
**P26**

**McKenzie Hart, Chemistry**  
Photochemical Synthesis of Natural Products  
*Mentor: Anna Gudmundsdottir, Ph.D.*  
**P27**

**A M Ovini Hasara Amarasinghe, Chemistry**  
Synthesis of a Cooperative Multi-electron Monomer Complex  
*Mentor: David Lentz, Ph.D.*  
**P28**

**Kristina Jackson, Alison Mortemere, & Nicole Hansel, Biological Sciences**  
Analysis of Maya Plant Remains at the Ceren Site, El Salvador  
*Mentors: Anna Gudmundsdottir, Ph.D., & Kosala Thenna Hewa*  
**P29**

**Elaine Lemen, Chemistry**  
Photochemistry of 3-azido-3-phenyl phthalide, stability of nitrene radical intermediate  
*Mentors: Laura Sagle, Ph.D., & Michael Tranter, Ph.D.*  
**P30**

**George Yoshida, Chemistry**  
Development of a multiplexed plasmonic nanoparticle-based assay to identify inhibitors of HuR protein-RNA binding  
*Mentor: Michael Sitko, Ph.D.*  
**P31**

**Rachel Fernandes, Physics**  
*WISE Program*  
The Structure and Dynamics of the Planet-building disk around HD 31648  
*Mentor: Ning Zhong, Ph.D.*  
**P32**

**Kelsey Turner, Mathematics**  
Computing Solutions of First Order Differential Equations with Arbitrary Precision  
*Mentor: Heather Norton, Ph.D.*  
**P33**

**Megan Hanna, Anthropology**  
*Taft Research Center*  
Forensic Facial Reconstruction: New 3D Printing Method  
*Mentors: William Connick, Ph.D., & Hairong Guan, Ph.D.*  
**P34**

**Kelsey Albright, Sarah Braley, Gary Brown, Grace Buckey, Jessica Burke, Ethan Ferguson, Alberta Negri, & Michael Sarama, Chemistry**  
*University Honors Program*  
Energy and Water Sustainability: A University of Cincinnati and University of Bordeaux Student Collaboration  
*Mentor: Philip Argyres, Ph.D.*  
**P35**

**Dnyanesh Kulkarni, Physics**  
4D Rank-2 N=2 SCFT’s and Fundamental Groups of Torus Link Complements  
**P36**
Posters & Displays

17th Annual PRaISE Conference
Presentations of Research and Innovative/Scholarly Endeavors

Advanced Medical Imaging Technology

Mentors: Barry Southers, M.Ed. & Alan Vespie, M.Ed.

Jordyn Armstrong, Advanced Medical Imaging Technology
Overview of Congenital Brain Defects and the Benefits of Diagnostic Imaging

Mentors: Alan Vespie, M.Ed. & Barry Southers, M.Ed.

Tiffany Reed, Advanced Medical Imaging Technology
The Use of Magnetic Resonance Imaging in the Diagnosis, Treatment Staging, and Post Therapy Screening of Retinoblastoma Patients

Mentors: Alan Vespie, M.Ed., & Barry Southers, M.Ed.

Xiaoxu Halcomb, Advanced Medical Imaging Technology
Technology and Diagnostic Imaging

Mentor: Alan Vespie, M.Ed.

Anthony Randolph, Advanced Medical Imaging Technology
The Effects of Cocaine on the Brain Seen Through MRI

Audiology

Mentor: Fawen Zhang

Sarah Colligan, & Anna Herrmann, Audiology
Acoustic Change Complex (ACC) in musicians and non-musicians: an objective tool to assess auditory training effects

Communication Sciences and Disorders

Mentor: Karla Washington, Ph.D.

Brigette Shaw, Lauren McKinney, & Abigail Rebholz, Communication Sciences and Disorders
Use of Index of Productive Syntax to Evaluate Jamaican Preschoolers’ Language Development in Jamaican Creole and English

Mentor: Sue Schmidlin

Mallory Sander & Kathryn Collier, Communication Sciences and Disorders
Motor Functions of the /r/ Clinic
Posters & Displays........................................................................................................PRaISE

Mentors: Nancy Creaghead, Ph.D., & Casey Keck, M.A.

Kaley Bell, Megan Jordan, & Kelsey Gundy,
Communication Sciences and Disorders
A Case Study on How Parents & Children with TBI Share Information in Three Social Contexts

Mentors: Lisa Kelchner, Ph.D., & Kathryn Davidson, M.A.

Rebecca Coyne, Mary Ragland, & Jill Germana,
Communication Sciences and Disorders
An Analysis of the Three Domains of the Pediatric Voice Handicap Index in Treatment Seeking Adolescent Performers

Mentors: Nancy Creaghead, Ph.D., & Claudia Kikuta, Ph.D.

Marissa Bohl & Kali Bayles, Communication Sciences and Disorders
Changes in Dialogic Book Reading Patterns of Parents Reading with their Children

Mentor: Krista Beyrer

Victoria Pyzik & Devin Riley, Communication Sciences and Disorders
University Honors Program
BIG Ideas for Restoring and Re-Routing: Techniques for Rehabilitation after TBI

Mentors: Karla Washington, Ph.D., & Lesley Raisor-Becker, Ph.D.

Sarah Tuohy, Brigette Shaw, Leah Baccus, Ivy Thompson, Tiffany Moody, & Rebecca Coyne, Communication Sciences and Disorders
International Experiences in Allied Health Sciences: Jamaica Study Abroad Program

Mentors: Nancy Creaghead, Ph.D., & Amy Hobek, Ph.D.

Tiffany Moody, Communication Sciences and Disorders
McNair Program
Eliciting Narrative in African American English Speaking Preschoolers: Comparing Story Retells of Boys’ and Girls’ Self Created Stories

Mentors: Carney Sotto, Ph.D., & Lesley Fette, M.A.

Shelby Hardin, & Sarah Seiger, Communication Sciences and Disorders
A Creative Hands-On Articulation Therapy Experience With The Pediatric Population

Mentor: Peter Scheifele, Ph.D.

Haylea Roark, Communication Sciences and Disorders
Acoustic clustering of vocalizations of the Asian Small-clawed Otter (Amblonyx cinerea)

Mentor: Leslie Raisor-Becker, Ph.D.

Christina Michel, & Deanna Timpe, Communication Sciences and Disorders
WISE Program
Preschool Classroom Acoustics
Posters & Displays

Leah Baccus, Milon Volk, & Narae Hyun, Communication Sciences and Disorders
AAC Intervention for Aphasia Recovery: Communication Analysis

Mentor: Aimee Dietz, Ph.D. PR17

Sarah Tuohy, Communication Sciences and Disorders
Mother’s References to Sounds and Letters during Shared Book Reading

Mentor: Allison Breit-Smith, Ph.D. PR18

Rasha Alsyeyyab, Sarah Kuhn, & Abbey Falcone, Communication Sciences and Disorders
Investigating variations in preschool dual language learners home language exposure and use

Mentor: Amy Hobek, Ph.D. PR19

Myriah Jackson, Communication Sciences and Disorders
Use of Content-Specific Vocabulary during Expository Book Retellings among Preschool Children with Language Impairment

Mentor: Allison Breit-Smith, Ph.D. PR20

Kelsey Kendall & Dustyn Whitesel, Communication Sciences and Disorders
Clinical Assessment of Pediatric Dysphagia

Mentor: Suzanne Boyce, Ph.D. PR21

JoHannah Ungruhe, Marisha Speights, & Courtney Bills, Communication Sciences and Disorders
Automated Measure of Intelligibility in Individuals with Down Syndrome

Mentors: Ann Kummer, Ph.D., & Janet Middendorf, M.A. PR22

Kaitlin Cox, Communication Sciences and Disorders
Video Education Series-Advantage of Nasopharyngoscopy in evaluating velopharyngeal anomalies

Mentors: Sarah Hamilton, M.A., & Suzanne Boyce, Ph.D. PR23

Kirsten Mosko, Communication Sciences and Disorders
Surveying Parents of Children with Speech Sound Disorders after Ultrasound Therapy

Mentor: Lisa Williamson, M.A. PR24

Michelle Robinson, Communication Sciences and Disorders, Exhibit Piece
Struggles of Speech Therapy in Low Income Charter Schools

Mentors: Sandra Combs, Ph.D. & Carney Sotto, Ph.D. PR25

Brooke King, Communication Sciences and Disorders
The Art of Grading College Writing PR26
Mentors: Carolyn Sotto & Karen Troup, & Chelsea Blankenship, Au.D.
Leslie Hogue, Kevin Kapela, Allison Lakes, Megan Sharo, & Kara Swanson,
Communication Sciences and Disorders
Transitioning the Gap between Students who will be Special Educators and Speech-Language Pathologists Using Video Models

Mentor: Noah Silbert, Ph.D.

Samantha Granata, Communication Sciences and Disorders
Signal-Detection Theory

Mentor: Krista Beyrer, Ph.D.

Devin Riley & Victoria Pyzik, Communication Sciences and Disorders
FACES OF TBI

Mentors: Jenny Burton, M.Ed., Karla Washington, Ph.D., Nancy Creaghead, Ph.D.
Alexis Wolf, Karalyn Marko, & Nicole Phillips,
Communication Sciences and Disorders
Social communication profiles in school-aged girls with high functioning autism spectrum disorder: Descriptive information from the CCC-2

Mentor: Brian Earl, Ph.D.

Ian Silver, Communication Sciences and Disorders
Analysis of Chirp-evoked Compound Action Potentials in Gerbils

Mentor: Brian Earl, Ph.D.

Lauren Meyer, Communication Sciences and Disorders
Examining Noise-Induced Auditory Nerve Degeneration in Gerbils

Mentor: Brian Earl, Ph.D.

Dietetics

Mentor: Lindsey Mayes, M.S.

Hanna Thomsen, Sam Kroger, Jacklyn Webb, & Emily Ochs, Dietetics
Modifying a Pancake Recipe to Achieve Breakfast without Anaphylaxis

Mentor: Lindsey Mayes, M.S.

Elizabeth Steinhauer, Katie Viancourt, Courtney Brinck, & Madison Stradford,
Dietetics
Modifying Without Compromising: Reduced Sodium in a Thai Lettuce Wraps Recipe

Mentor: Lindsey Mayes, M.S.

Gabrielle Southers, Christine Schnell, Anna Smith, & Olivia Bronikowski,
Dietetics
Healthy Modifications for Traditional Banana Bread Recipe

Mentor: Lindsey Mayes, M.S.
Posters & Displays

Mentor: Lindsey Mayes, M.S.

Jamie Nowak, Laura Baltmiskyte, Julie Pope, & Caroline Riewe, Dietetics  PR36
The Added Weight of Added Sugars: Modifying a Kid-Friendly Recipe to Reduce Obesity

Health Sciences

Mentors: Kari Dunning, Ph.D., & Pierce Boyne

Dustyn Whitesel, Health Sciences  PR37
Multidisciplinary Cardiovascular Rehabilitation after Stroke

Mentor: Susan Kotowski, Ph.D.

Matthew Kanetzke, Kyle Lavine, Mark Tipton, & Adam Magier,  PR38
Health Sciences
The Effects of Preferred In-Ear Music on Exercise Performance

Mentor: Susan Kotowski, Ph.D.

Emily Rodriguez, Matthew Wigle, Robert Schwartz, Eric Meehan, Shawn Rampton,  PR39
Health Sciences
The Effect of Caffeine on VO2max in high-caffeine and low-caffeine users

Mentors: Susan Kotowski, Ph.D., & Nancy Elder, MD

Gabriella Gracia, Health Sciences  PR40
Leading University of Cincinnati Army ROTC Physical Fitness

Mentors: Nancy Elder, M.D., Harini Pallerla, & Susan McDonald

Arthur Forbriger, Health Sciences  PR41
Referrals as a Tool for an Interprofesional Approach to Chronic Pain Management in Primary Care

Mentor: Susan Kotowski, Ph.D.

Jenna Byrne, Taylor Nedrich, Nicole Kovach, & Stephanie Ambach,  PR42
Health Sciences
Muscular Dystrophy Association Summer Camp: Volunteer Camp Counselor Experience

Mentor: Susan Kotowski, Ph.D.

Nolan Burger, Zachary Sacko, Kirk Gothard, & Alex Stephenson,  PR43
Health Sciences
Muscle Requirements for Common Lifting Techniques

Mentors: Susan Kotowski, Ph.D., Cyndy Cox, & Amit Bhattacharya, Ph.D.

Lauren Schiefer, Health Sciences  PR44
The Cincinnati Bone Lead Study
Posters & Displays

Mentors: Susan Kotowski, Ph.D., & Mark Paterno, Ph.D.

Kyle Walker, Health Sciences

McNair Program
Modified Star Excursion Balance Test (mSEBT) Predicts Second Anterior Cruciate Ligament Injury after ACL Reconstruction and Return to Sport in Male Athletes

Laurel Jaroch, Brooke Stewart, Breanna McLaughlin, & Claire Grace,

Health Sciences

Memory in Motion

Lance Lutts, Health Sciences

Coordination Adaptation for FPV Flight

Mentor: Susan Kotowski, Ph.D.

Samantha Darner, Health Sciences

Therapy Interventions for Children with Cortical Visual Impairment

Mentor: Thomas Hermann, Ed.D.

Alex Stephenson, Health Sciences

My Capstone Experience

Mentor: Susan Kotowski, Ph.D.

Daniel Braswell, Health Sciences

Mild jugular compression reduces white matter changes in brain during collision sports

Mentor: Susan Kotowski, Ph.D.

Kristyn Cradler, Health Sciences

Occupational Therapy in Early Education Centers

Mentors: Susan Kotowski, Ph.D., & Karen Harpster, Ph.D.

Lisa McKinney, Health Sciences

Deficiency of Protease-activated Receptor 2 Attenuates Angiotensin II-induced Abdominal Aortic Aneurysm Independent of Vascular Smooth Muscle Cell Tissue Factor

Mentor: Susan Kotowski, Ph.D.

Breanna McLaughlin, Health Sciences

MDA Summer Camp Experience

Mentor: Susan Kotowski, Ph.D.

Claire Grace, Health Sciences

TriHealth Cardiac and Pulmonary Rehab

Mentor: Alycia Rahe

Nolan Burger, Health Sciences

Oxford Physical Therapy, PT Aide

Mentor: Susan Kotowski, Ph.D.
**Posters & Displays**

**Mark Tipton**, Health Sciences  
B.E.S.T. Beacon Elite Sports Training

**Mentor: Susan Kotowski, Ph.D.**

**PR56**

**Sara Crevar**, Health Sciences  
Cincinnati Sports Club Fitness Intern

**Mentor: Susan Kotowski, Ph.D.**

**PR57**

**Hillary Williams, Evelyne Kiehm, & Cayli Harrison**, Health Sciences  
Effects of Nicotine on VO2 Max

**Mentor: Susan Kotowski, Ph.D.**

**PR58**

**Laurel Jaroch**, Health Sciences  
Personal Training Internship

**Mentor: Susan Kotowski, Ph.D.**

**PR59**

**Emily Osterling**, Health Sciences  
Initial muscle fiber recruitment behavior under maximal loads and maximal force

**Mentors: Susan Kotowski, Ph.D., Phillip Owens, Ph.D., & Adrien Mann**

**Erin Celesti & Chris Lamm**, Health Sciences  
Understanding the Murine Model in Basic Cardiovascular Research

**Mentor: Susan Kotowski, Ph.D.**

**PR61**

**Kyle LaVine**, Health Sciences  
Strength and Conditioning for Division 1 Athletes

**Mentor: Rose Smith, DPT**

**PR62**

**Deanna Wiese**, Health Sciences  
Effectiveness of personalized training programs for university dance students in improving functional movement screening scores

**Mentor: Susan Kotowski, Ph.D.**

**PR63**

**William Magill**, Health Sciences  
Mount St. Joseph Strength and Conditioning

**Mentor: Susan Kotowski, Ph.D.**

**PR64**

**Sarah Dawes**, Health Sciences  
MusclePharm Sports Science Institute

**Mentor: Susan Kotowski, Ph.D.**

**PR65**

**Brooke Stewart**, Health Sciences  
BeWell Fitness: Strength in Numbers

**Mentors: Jennifer Schmit, DMT, & Jennifer Angeli**

**PR65A**
Posters & Displays

Medical Laboratory Science

Rachel Barnes, Nicholas Hoffmann, & Daniel Oehler,
Medical Laboratory Science
An Analysis of HIV Treatments on Hematological Values in the Clinical Laboratory
Mentor: Erin Rumpke, Ph.D.
PR66

Bethany Hetzel, Megan Otten, Brittany Benning, & Alex Spenny,
Medical Laboratory Science
Unexpected Fungal Infection
Mentor: Charity Accurso, Ph.D.
PR67

Amber Coulson, Amardeep Bal, & Sanjit Singh,
Medical Laboratory Science
New Clinical Drug for Multiple Myeloma
Mentor: Elizabeth Hertenstein, Ph.D.
PR68

Kasey Van Hoose, John Duong, & Ariela Topper,
Medical Laboratory Science
Clinical Picture and Laboratory Diagnosis of Malaria
Mentor: Elizabeth Warning, Ph.D.
PR69

Brittany Holdheide, Rachel Buhr, & Suliman Alkhudairy,
Medical Laboratory Science
When Cancer Comes Back in a Different Form
Mentor: Gideon Labiner, Ph.D.
PR70

Social Work

Garrett Parsons, Social Work
Benefits and Barriers to the PetSmart Promise Pet Program in Family Promise Shelters
Mentor: Jennifer Wright-Berryman, Ph.D.
PR71

Rachel Bauder, Social Work
Secondary Traumatic Stress in Foster Care Social Workers
Mentor: Gary Dick, Ph.D.
PR72

Aaron Gillespie, Social Work
The Impact of Father Physical Abuse on Their Sons
Mentor: Gary Dick, Ph.D.
PR73
Kelly Bettis, Social Work
How Well Trained and Competent Do Nursing Home Staff Feel With Identifying and Managing Dementia Residents with Depression In A Cincinnati Nursing Home

Shaconda Wilson, Social Work, Exhibit Piece
Diversion Programs: Factors Associated With Having A Positive Juvenile Mediation Outcome

Jenna Riley, Social Work
Factors Involved in Infant Homicide

Asya Williams, Social Work
Exploring the Characteristics of Children in Foster Care to Provide the Awareness of the Initial Reason for Intake

Samantha Nicks, Social Work
Chronic Versus Situational Homelessness

Emily Philhower, Social Work
Foster Parent Parenting Styles and the Relation to Academic Performance

Julia Lowe, Social Work
Mediation: Voluntary or Mandatory

Kourtney Shrader, Social Work
Staff Perceptions of the Effectiveness of NYAPS PASS Program

Krista Gebele & Elizabeth Burns, Social Work
Family Drug Court Implications in Child Welfare Services

Rachel Jacoby, Social Work
Theoretical Perspectives Supporting the Use of Group Therapy Among Youth with Mental Disturbances
Posters & Displays

Jordin Rogers, Social Work
Teen Dating Violence
Mentor: Jennifer Wright-Berryman, Ph.D.
PR84

Valerie Lippert, Social Work
The Prevalence of ADHD in Children Who Have Suffered Trauma
Mentor: Gary Dick, Ph.D.
PR85

Tyler Layne, Social Work
How Children Learn In the Walnut Hills Community
Mentor: James Cainfield, Ph.D.
PR86

Myesha Price, Social Work
Recovery Facilities Effectiveness for Substance Abuse
Mentor: Jennifer Wright-Berryman, Ph.D.
PR87

Sarah Scovell, Social Work
Independent Living Services for Foster Care Youth
Mentor: Gary Dick, Ph.D.
PR88

Sabrina Sowders, Social Work
The Impact of After-School Program Participation on Academic Success
Mentor: Jennifer Wright-Berryman, Ph.D.
PR89

Bethany Fischer, Social Work
Comparing the Number of Foster Care Placements With ADHD or PTSD
Mentor: Gary Dick, Ph.D.
PR90

Kahvah Yisrael, Social Work
A Qualitative Study: Barriers to Housing and Employment for Homeless Ex-Felons
Mentor: Gary Dick, Ph.D.
PR91

Allysa Royer, Social Work
Do families with children access more food bank services than families without children?
Mentor: Bob Littmann, MSW
PR92

Erin Donovan, Social Work
The Impact of Abuse on Youth’s Behavior
Mentor: Gary Dick, Ph.D.
PR93

Katie Wickemeyer, Social Work
Potential Violence on an In-Patient Psychiatric Unit
Mentor: Jennifer Wright-Berryman, Ph.D.
PR94
Shawna Wagoner & Michaela Parker, Social Work  
A comparative look at foster care and voluntary cases: How sleep affects a child’s academic outcome  
Mentor: Gary Dick, Ph.D.  
PR95

Dustin Holston, Social Work  
Lack of Resources In Rural Child Welfare Agencies and the Relationship of Residivism Rates in Child Abuse and Neglect Cases  
Mentor: Gary Dick, Ph.D.  
PR96

Brittney Miller, Social Work  
Access to Social Services in Cincinnati  
Mentors: Jennifer Wright-Berryman, Ph.D., & Gary Dick, Ph.D.  
PR97

Courtney Freeman, Social Work  
Burnout Rate Among Social Workers  
Mentor: Gary Dick, Ph.D.  
PR98

Rebecca Curry, Social Work  
How Beneficial are Questionnaires in Residential Treatment  
Mentor: Jennifer Wright-Berryman, Ph.D.  
PR99

Danielle Albers, Social Work  
Teens Taking Medication for ADHD in Foster Care  
Mentors: Gary Dick, Ph.D., & Andrea Parker, GA  
PR100

Michael Murray, Social Work  
Understanding Contributing Factors of Male Suicide in Cincinnati  
Mentor: Gary Dick, Ph.D.  
PR101

Helen O’Neill, Social Work  
Domestic Violence Screening, Assessment and Connection to Resources  
Mentor: Gary Dick, Ph.D.  
PR102

Cassidy Hammond, Social Work  
Burnout Rate Among Social Workers in Hospice a Care Setting  
Mentors: Jennifer Wright-Berryman, Ph.D. & Gary Dick, Ph.D.  
PR103

Algeria Wilson, Social Work  
Who’s In Isolation? : Examination of the Department of Public Advocacy’s Alternative Sentencing Social Work Cases  
Mentor: Gary Dick, Ph.D.  
PR104
**Posters & Displays**

**PRaISE**

**Julie Weber**, Social Work  
The Effects of Homelessness on Children  
Mentor: **Jennifer Wright-Berryman**, Ph.D.  
PR105

**Mariana Marinucci**, Social Work  
Relationships Between Violent Behavior and Addictions in Women; Emotions and Rationalizations  
Mentor: **Jennifer Wright-Berryman**, Ph.D.  
PR106

**Shawna Green**, Social Work  
Factors that Impact Stress/Burn out in Social Workers  
Mentor: **Jennifer Wright-Berryman**, Ph.D.  
PR107

**Tammy Gordon**, Social Work  
Senior Research Project  
Mentor: **Jennifer Wright-Berryman**, Ph.D.  
PR108

**Moriah Israel**, Social Work  
UC Forward Course  
Exploring the relationship between macro-aggressive trauma and HIV testing patterns in young African American women  
Mentors: **James Canfield & Andrew Ruffner**, Ph.D.  
PR109

**Lauren Than Win**, Social Work  
How are HIV testing statistics different among African American and Caucasian women with the same environment?  
Mentor: **Andrew Ruffner**, Ph.D.  
PR110

**Michaela Parker & Shawna Wagoner**, Social Work  
A Comparative Look at Foster Care and Kinship Care: How Sleep Affects a Child's Academic Outcome  
Mentor: **Gary Dick**, Ph.D.  
PR111

**Linsey DeBruler**, Social Work  
Children with ADHD and ODD  
Mentor: **Jennifer Wright-Berryman**, Ph.D.  
PR112

**Shayla McGrady**, Social Work  
Perspectives of Nursing Home Staff of the Factors Impacting the Transition to Extended Care Placement for Residents  
Mentor: **Gary Dick**, Ph.D.  
PR113

**Anna Krizner**, Social Work  
Grandparents Raising Their Grandchildren  
Mentor: **Gary Dick**, Ph.D.  
PR114

**Carley Crain**, Social Work  
Substance Abuse: Its Effects on Self-Esteem in Incarcerated Women  
Mentor: **Gary Dick**, Ph.D.  
PR115
Posters & Displays

Social Sciences

**Emily Ramirez**, Criminal Justice
Uncovering the Trends of Modern Day U.S Slavery

*Mentors: Teresa Kulig, MA, & Sarah Manchak, Ph.D.

Emily Ramirez, Criminal Justice
Uncovering the Trends of Modern Day U.S Slavery

*Mentors: Chris Sullivan, Ph.D., & Sarah Manchak, Ph.D.

**Katelyn Cain**, Criminal Justice
Training and the Successful Implementation of the Ohio Youth Assessment System

*Mentors: James Frank, Ph.D., & Sarah Manchak, Ph.D.

**Paige Heneghan**, Criminal Justice
Senate Bill 77 - Live and Photo Lineups

*Mentor: Quintino Mano, Ph.D.

**Abigail Licata, Nathen Morris, & Cara Daggitt**, Neuroscience
Cognition-Emotion Interactions in Reading

*Mentors: Joseph Nedelec, Ph.D., & Sarah Manchak, Ph.D.

**Alexis Stenstrom**, Criminal Justice
The Women of Hamilton County Jail: An Exploration of Female Offending and Family Criminal History

*Mentors: Susybel Pimentel & Sarah Manchak, Ph.D.

**Olivia Hubble**, Psychology
Case Processing In The Juvenile Justice System: Is It Taking Too Long?

*Mentor: James Canfield

**Kristen Haddad**, Psychology
Exploring urban hassles and psychosocial needs for urban high schoolers in a school-wide needs assessment

*Mentor: Guy-Lucien Whemboula, Ph.D.

**Kirstyn Thomas**, Biological Sciences
A Systematic Review of HIV Serostatus Disclosure among African Immigrants in Europe

*Mentors: Rachel Kallen, Ph.D., & Stacie Furst-Holloway, Ph.D.

**Jeremy Hoffman**, Psychology
Interdepartmental Social Network Analysis - Betweenness Centrality

*Mentor: Donna Chrobot-Mason, Ph.D.

**Derrick Fenger, Devin Hartley, & Jack Fitzgerald**, Psychology
UC Career Education: A Systematic Inquiry

*Mentor: Quintino Mano, Ph.D.

**Abigail Licata, Nathen Morris, & Cara Daggitt**, Neuroscience
Non-arbitrary sound-symbol mapping associated with reading performance among university students: A proof-of-concept study

*Mentor: Quintino Mano, Ph.D.
Posters & Displays

Nicole Tracy, Criminal Justice
The Effects of Client Trauma on Success in Drug Treatment
Mentor: Sarah Manchak, Ph.D.  $12

Virag Varga, Archaeology
REU Program
A preliminary analysis of the metal finds from Békés 103 (BAKOTA NSF REU)
Mentor: Donna Chrobot-Mason, Ph.D.  $13

Nathan Ball, Psychology
UC Women as Leaders: Enhancing Leadership Through Networking
Mentors: Rachel Kallen, Ph.D., & Michael Richardson, Ph.D.  $14

Anthony Foster, Psychology
Discursis: Utilizing Categorical Recurrence Analysis to Visualize the Disclosure Experience
Mentor: Renu Sah, Ph.D.  $15

Inga Schubert, Neuroscience
Inflammation and Posttraumatic stress disorder (PTSD): Investigating CX3CR1-deficient mice in a mouse model of PTSD
Mentor: Gary Dick, Ph.D.  $16

Kendra Lucius, Social Work
Foster Parent Training: Effectiveness for Foster Parenting of Abused and Neglected Children
Mentor: Kristen Jastrowski Mano, Ph.D.  $17

Kaydi Dodd, Neuroscience
The Role of Executive Functioning in Acute Pain Tolerance
Mentors: Oladunni Oluwoye, M.A., & Laura Nabors, Ph.D.  $18

Olivia Hill, Psychology
SURF Program
An Unspoken Reality: College Students’ Perceptions of Prescription Drug Misuse
Mentor: Heidi Kloos, Ph.D.  $19

Cali Fuller, Samantha Smith, Jessica Gerner, & Aisha Rajan, Psychology
Measuring STEM Efficacy in Elementary-School Children: A Observational Approach
Mentor: Rachel Kallen, Ph.D.  $20

Erin O’Callaghan, Psychology
Comparing Disclosure Experiences of Mental Illness and Sexual Abuse
Mentor: John Holden, Ph.D.  $21

Alexandria Hoover, Christopher Hoover, & Mary Jean Amon, Psychology
Characterizing solo and distributed cognition in response time tasks
Mentor:  $22


Posters & Displays

Bailey Starcher, Social Work
LGBTQ Youth Homelessness

Mentor: Gary Dick, Ph.D.

Michael Gaisie, Health Education
STARS Program
Addressing the Impact of the Ebola Virus Disease - related Stigma among African Immigrants in the United States

Mentor: Guy-Lucien Whembolua, Ph.D.

Joseph Ross, Sport Administration
Professional sports teams’ marketing efforts in Columbus, Ohio

Mentor: Michael Odio

Ellen Biscotti & Victoria Lemen, Anthropology
Reconstructing the Little Ice Age Climate of Big Bone Lick, Kentucky

Mentor: Kenneth Tankersley, Ph.D.

Michael Gaisie, Health Education
Social Determinants to Heroin Use among Emerging Adults

Mentor: Rebecca Vidourek, Ph.D.

Robert Ludlum, Anthropology
Taft Research Center
Veterans and Outdoor Education

Mentor: Dan Murphy

Alexandra Myers, Psychology
Error Message: Effects of Doing a Task Over on Engagement

Mentor: Stacie Furst-Holloway, Ph.D.

Hayley Drerup, Social Work
The Effects of Music Therapy on Dementia Care

Mentor: Gary Dick, Ph.D.
### Project Evaluators

#### Oral Presentations

<table>
<thead>
<tr>
<th>Evaluator Name</th>
<th>Time, Room Number</th>
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<tbody>
<tr>
<td>Laura Nabors</td>
<td>12:00-1:00, Room 330</td>
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<tr>
<td>Aaron Bradley</td>
<td>12:00-1:00, Room 329</td>
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<tr>
<td>Lesley Raisor-Becker</td>
<td>12:00-2:00, Room 312</td>
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<td>Fawen Zhang</td>
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<td>Kevin Geiger</td>
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<td>Rose Smith</td>
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<td>Bala Addepalli</td>
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<tr>
<td>Karen Troup</td>
<td>2:00-3:00, Room 312</td>
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#### Allied Health

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<tr>
<td>Sandra Combs</td>
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<td>Kim Hasselfeld</td>
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<td>Erin Redle</td>
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<td>Lindsey Mayes</td>
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#### Engineering

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<td>Michael Tranter</td>
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#### Humanities

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<td>Michele Vialet</td>
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#### Life Sciences

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<tr>
<td>Josh Gross</td>
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<td>Elizabeth Warning</td>
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<td>Ana Kadekaro</td>
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#### Nursing

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<td>Cynthia Nypaver</td>
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<td>Vernita Smith</td>
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<td>Carolyn Smith</td>
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<td>Melanie Kroger-Jarvis</td>
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#### Physical Sciences

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<tr>
<td>Jeff Kastner</td>
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### Project Evaluators

#### 17th Annual PRaise Conference

<table>
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<tr>
<td>Pamela Greenstone</td>
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<td>Barry Southers</td>
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<td>Pierce Boyne</td>
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<td>Abigail Peairs</td>
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<td>Brian Earl</td>
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#### Social Sciences

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<tr>
<td>Guy Whembolua</td>
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<td>Stacie Holloway</td>
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<tr>
<td>Jennifer Wright-Berryman</td>
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</table>
Special Program Index

**McNair Program**
Bah Isatu \(AH_{47}\)
Patricia Ladipo \(E_5\)
Tiffany Moody \(PR_{13}\)
William Stone \(AH_{34}\)
Kyle Walker \(PR_{45}\)
Jazmine Covington
Nene Ly

**REU Program**
Virag Varga \(S_{13}\)

**STARS Program**
Sabria Berry \(H_6\)
Danielle Ferguson \(L_{53}\)
Lindsey Frantz \(N_{28}\)
Michael Gaisie \(S_{24}\)
Abel Tekaligne

**SURF Program**
Megan Dunlevy \(L_{18}\)
Mohamed Elzarka \(L_{54}\)
Cora Flath \(L_{49}\)
Olivia Hill \(S_{19}\)

**Taft Research Center**
Megan Hanna \(P_{34}\)
Robert Ludlum \(S_{28}\)
Keavash Assani Oral Presentation
Tegan Siereveld Oral Presentation

**UC Forward**
Moriah Israel \(PR_{109}\)
Special Program Index

University Honors Program
Kelsey Albright, Sarah Braley, Gary Brown, Grace Buckey, Jessica Burke, Ethan Ferguson, Alberta Negri, & Michael Sarama
Michael Arnold
Robert Becker, Scott Shilling, Eric Phillips, & Rishabh Ravindra
Kirsten Boone
Evan Burke, Andy Trenaman, & Tobin Anderson
Gabrielle Cook
John Detherage
Nada El-Sayed
Victoria Hammond
Nathaniel Jung, Nathan Tiffany, Emily Piatt, & Saylee Dharne
Jennifer Kendrick
Ananya Nijhawan, John Ball, & Hung Nguyen
Victoria Pyzik & Devin Riley
Kevin Rose
John Tallant, Ryan Newsom, & Eric Phillips
Uyen Tran
Keavash Assani

URC - UG Student Research Fellowship Program
John Zucal

URSC 2016 Scholar of the Month
Hai Dong
Dnyanesh Kulkarni

WISE Program
Jessica Burke
Courtney Collins & Madison Taylor
Gabrielle Cook
Rachel Fernandes
Taiwo Oyadiran
Rachel Tan
Destini Thomas

Oral Presentation

43