Run with new ideas

12th Annual
Research & Creative Achievement Week 2018

Graduate Student and Post Doctoral Scholar
Presentation Schedule

Monday, March 26, 2018 | Mendenhall Student Center
Great Room 1 | Engineering

8:00 AM - 9:00 AM

GO1 8:00 - 8:15 Performance Analysis of Hadoop Cluster for User Behavior Analysis, Alireza Ashayer

GO2 8:15 - 8:30 Identifying a Cross-Correlation Between Heart Rate Variability and Skin Conductance Using Pain Intensity on Healthy College Students, Genesis Cruz-Molina

GO3 8:30 - 8:45 Passive Micromixers for DNA analysis using CFD modelling, Ritesh Agarwal

GO4 8:45 - 9:00 Experimental Demonstration of the Relationship of Coupling Stiffness and Sensitivity to Disorder in a Fabricated Cantilever Array, Jules Zapanta

9:00 - 9:15 BREAK

Great Room 1 | Biomedical Sciences

9:15 AM - 4:00 PM

G05 9:15 - 9:30 Specialized pro-resolving lipid mediators regulate bone marrow and splenic B cell populations in obesity in a sex-specific manner, Miranda Crouch

G06 9:30 - 9:45 Ca2+/calmodulin-dependent protein kinase kinase α (CaMKKα) is not necessary for functional overload induced increases in glucose uptake or muscle mass in mouse skeletal muscle, Luke Weyrauch

G07 9:45 - 10:00 SR-BI Expression protective against IL-17-dependent neutrophilic asthma, Myles Hodge

G08 10:00 - 10:15 Cardiolipin microdomains form in the presence of cytochrome c and are dependent on cardiolipin concentration and acyl chain composition, Edward Pennington

G09 10:15 - 10:30 Prohibitin-1 and -2 have diverse cell-autonomous effects on inflammatory signaling, Christine Psaltis

G010 10:30 - 10:45 Glycolytic and oxidative muscles exhibit differential changes in insulin sensitivity and glucometabolic enzymes in response to long-term denervation in mice, Shawna McMillin

G011 10:45 - 11:00 Sperm or oocyte? Protein synthesis acts to control cell fate decisions, Hayden Huggins

G012 11:00 - 11:15 Epigenome-wide association study of the previous number of strokes in participants from the Vitamin Intervention for Stroke Prevention clinical trial identifies two novel associations, Nicole Davis Armstrong

G013 11:15 - 11:30 Identification of Galectin-1 Overexpression in Murine Primary and Metastatic Triple Negative Breast Tumors, Kassondra Balestrieri

11:45 - 1:30 PLENARY SESSION - EFFECTING REAL WORLD CHANGE - Hendrix Theatre!

*Co-Presenter
Graduate Oral Presentations

GO14 1:30-1:45  Quantitative Method for Simultaneous analysis of Drugs of Abuse in Umbilical Cords using Liquid Chromatography/Mass Spectrometry, Srivalli Swathi Mamillapalli

GO15 1:45-2:00  Testosterone replacement reverses erectile dysfunction following androgen deprivation therapy by restoring internal pudendal artery vasodilation, Michael Odom

GO16 2:00-2:15  The C-terminus of Troponin T Sets the Limits of Contractile Activity, Dylan Johnson

GO17 2:15-2:30  Critical role of claudin-7 in maintaining intestinal crypt stem cell functions, Tiaosi Xing

GO18 2:30-2:45  Modeling correlation of T1 and T2 Weighted MRI to CT Intensity, Samuel Leu

2:45-3:00  BREAK

GO19 3:00-3:15  Relationship of N-glycans to neuroblastoma, Austin Whitman

GO20 3:15-3:30  Prostatic radiation therapy induces pelvic neuron apoptosis and bladder dysfunction with no impact on penile function, Shelby Powers

GO21 3:30-3:45  The Development of beta-actin mutants with altered binding affinities for ATP and ADP, Abu-Bakarr Kuyateh

GO22 3:45-4:00  Social regulation of the endocannabinoid system and modulation of the escape and swim circuits in zebrafish (Danio rerio), Stephen Orr

4:00-4:15  BREAK

Great Room 1 | Humanities 4:15 PM - 5:15 PM


GO24 4:30-4:45  Technofeminism: A Close Look at Literacy Center Components, Lakela Atkinson

GO25 4:45-5:00  Writing Studies Research: Genre-fluid Writers, Queer Feminist Rhetorics, and Social Justice, Ruby Nancy

GO26 5:00-5:15  From One Woman to Another: How Spanish Women Used Education to Spur Change in New Spain in the Sixteenth Century, Kayla Green

Great Room 2 | Technology and Computers 8:00 AM - 9:15 AM

GO27 8:00-8:15  Adversarial Machine Learning: A Literature Review, Samuel Thomas

GO28 8:15-8:30  MC/DC coverage for requirement specifications, Gourav Das

GO29 8:30-8:45  Big Data Infrastructure for Analyzing Handwritten Documents, Akhil Gudivada

*Co-Presenter
### Graduate Oral Presentations

**MONDAY 3.26.18**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>GO30</td>
<td>8:45-9:00</td>
</tr>
<tr>
<td>GO31</td>
<td>9:00-9:15</td>
</tr>
<tr>
<td></td>
<td>9:15-9:30</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>GO32</td>
<td>9:30-9:45</td>
</tr>
<tr>
<td>GO33</td>
<td>9:45-10:00</td>
</tr>
<tr>
<td>GO34</td>
<td>10:00-10:15</td>
</tr>
<tr>
<td>GO35</td>
<td>10:15-10:30</td>
</tr>
<tr>
<td>GO36</td>
<td>10:30-10:45</td>
</tr>
<tr>
<td>GO37</td>
<td>10:45-11:00</td>
</tr>
<tr>
<td>GO38</td>
<td>11:00-11:15</td>
</tr>
<tr>
<td>GO39</td>
<td>11:15-11:30</td>
</tr>
<tr>
<td></td>
<td>11:45-1:30</td>
</tr>
<tr>
<td>GO40</td>
<td>1:30-1:45</td>
</tr>
<tr>
<td>GO41</td>
<td>1:45-2:00</td>
</tr>
<tr>
<td>GO42</td>
<td>2:00-2:15</td>
</tr>
<tr>
<td>GO43</td>
<td>2:15-2:30</td>
</tr>
<tr>
<td>GO44</td>
<td>2:30-2:45</td>
</tr>
<tr>
<td>GO45</td>
<td>2:45-3:00</td>
</tr>
<tr>
<td></td>
<td>3:00-3:15</td>
</tr>
<tr>
<td>GO46</td>
<td>3:15-3:30</td>
</tr>
<tr>
<td>GO47</td>
<td>3:30-3:45</td>
</tr>
<tr>
<td>GO48</td>
<td>3:45-4:00</td>
</tr>
<tr>
<td>GO49</td>
<td>4:00-4:15</td>
</tr>
<tr>
<td>GO50</td>
<td>4:15-4:30</td>
</tr>
<tr>
<td>GO51</td>
<td>4:30-4:45</td>
</tr>
</tbody>
</table>

*Co-Presenter*
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>GO52</td>
<td>8:00-8:15</td>
<td>The Relationship between Health Literacy and Cigarette Smoking Behavior of Undergraduates,</td>
<td>Juliann Stalls</td>
</tr>
<tr>
<td>GO53</td>
<td>8:15-8:30</td>
<td>Sexual Risk Behaviors, Sexual Satisfaction, and Sexual Functioning among Rape Survivors,</td>
<td>Marlee Layh</td>
</tr>
<tr>
<td>GO54</td>
<td>8:30 - 8:45</td>
<td>Predictors and Moderators of Sexual Satisfaction in Dating Individuals,</td>
<td>Ozlem Kose</td>
</tr>
<tr>
<td></td>
<td>8:45 - 9:00</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>GO56</td>
<td>9:00-9:15</td>
<td>A Solar Farm in My Backyard? Resident Perspectives of Utility-Scale Solar in Eastern North Carolina,</td>
<td>Zachary Dickerson</td>
</tr>
<tr>
<td>GO57</td>
<td>9:15-9:30</td>
<td>What is the impact of incorporating culturally diverse literature in an organized classroom library on Kindergarteners' cultural tolerance?</td>
<td>Jennifer Gardner</td>
</tr>
<tr>
<td>GO59</td>
<td>9:45-10:00</td>
<td>The Untold Aftershocks: The Impact of Nepal's 2015 Earthquakes on Human Trafficking,</td>
<td>Krista Nixon</td>
</tr>
<tr>
<td>GO60</td>
<td>10:00-10:15</td>
<td>Carolina Sunset, Cuban Sunrise - A Comparative Study of Race, Class, and Gender in the Reconstructed South and Colonial Cuba, 1867 – 1869,</td>
<td>Eric Walls</td>
</tr>
<tr>
<td>GO61</td>
<td>10:15-10:30</td>
<td>Examining Barriers and Health Literacy as a Facilitator to MyChart Practicality among Latino Caregivers: A Mixed-Method Study,</td>
<td>Kali Guest</td>
</tr>
<tr>
<td>GO62</td>
<td>10:30-10:45</td>
<td>Exploring Effective Teaching Strategies at the University Level that Impact Low Socioeconomic,</td>
<td>Taylor Sluss</td>
</tr>
<tr>
<td>GO63</td>
<td>10:45-11:00</td>
<td>Toxic Confinement: Increased Exposure to Airborne Toxins in Prison Facilities,</td>
<td>Thomas Vogel</td>
</tr>
<tr>
<td>GO64</td>
<td>11:00-11:15</td>
<td>Undergraduate Apathy: What Faculty Can Do,</td>
<td>Rebekah Stanton</td>
</tr>
<tr>
<td></td>
<td>11:15-11:30</td>
<td>PLENARY SESSION - EFFECTING REAL WORLD CHANGE - Hendrix Theatre!</td>
<td></td>
</tr>
<tr>
<td>GO65</td>
<td>1:30-1:45</td>
<td>Emotions, Identity, and Sustainable Behaviors: A Study of Environmental Involvement in a Campus Community,</td>
<td>Camille Kresz</td>
</tr>
<tr>
<td>GO66</td>
<td>1:45-2:00</td>
<td>Analyzing Factors Contributing to Repeated Disaster Vulnerability and their Impact on Community Recovery,</td>
<td>William Alexander</td>
</tr>
</tbody>
</table>
GO67  2:00-2:15  WHO'S GETTING THE BEST SEX?: A Comparison by Sexual Identity, Hannah Morris

GO68  2:15-2:30  A Systematic Review of Racial Biases in Healthcare Workers and Healthcare Disparities, Shyla Cabell

GO69  2:30-2:45  Nike Store Las Ramblas; Behind The "Shoe Wall", Pol Salanellas

GO70  2:45-3:00  A Post-Race Society? A Content Analysis of Race during the Obama and Trump Inaugurations, Jerry Johnson

GO71  3:00-3:15  Exploring Pre-Service Early Childhood Education Teachers' Experience with Nutrition Education, Jessica Resor

3:15-3:30  BREAK

Great Room 3 | Natural Sciences 3:30 PM - 5:00 PM

GO72  3:30-3:45  Effects of temperature, salinity, and steel type on microbiologically influenced corrosion in North Carolina estuarine river systems, Cody Garrison

GO73  3:45-4:00  Evolution of fast muscle movement in New World manakins (Pipridae), Robert Driver

GO74  4:00-4:15  Generate and Characterize Adamts9 Knockout Mutants, Nicole Carter

GO75  4:15-4:30  A Biophysical Approach to Understanding Fibrin's Extensibility, Taylor Dement

GO76  4:30-4:45  Using Parasite Diversity in a Common Host Fish to Evaluate Anthropogenic Impact, Christopher Moore

GO77  4:45-5:00  Effects of nutrient addition and disturbance on plant community assembly: a functional trait analysis in a long-term experiment, Emily Tate
Graduate Poster Presentations

MSC 221 | Engineering | 8:00 AM - 10:00 AM
---
GP1 Engineering a Novel Dysfunctional High-Density Lipoprotein Mimetic Peptide, Michael Yaeger
GP2 Incorporation of Fibronectin on Electrospun Scaffolds to increase Biocompatibility and hMSC proliferation, Nicholas Bernath
GP3 Effect of inhibitors of sphingolipid metabolism on colon cancer tumor spheroid formation, Kamara Jones
GP4 Relationship Between Muscle Volume And Tibial Stress, Mara Thompson

MSC 221 | Technology and Computer Sciences | 8:00 AM - 10:00 AM
---
GP5 Additive Manufacturing in Military Applications, Zachary Cleghorn
GP6 Use Recycled Concrete Aggregate as an Aggregate in Concrete – A Global Review and Current Status in America, Mingqi Hang
GP7 Generating Knowledgebase of Common Behavior and Workflow Patterns for Secure Healthcare Systems, Bigyan Pandit
GP8 Knowledge Discovery in EHR System for Decision Support System, Dev Budhathoki
GP9 Automatic Segmentation of LVP Muscle using Optical Flow Algorithm, Anil Adhikari
GP10 The Importance of Cybersecurity Education in the Society, Tolulope Awojana
GP11 Simulated Environment for User-Behavior Pattern Matching in Distributed Systems, Rabindra Khanal

MSC 211 | Natural Sciences | 10:00 AM - 12:00 PM
---
GP12 Diversity of Parasites in the Eastern Mud Snail Ilyanassa obsoleta associated with an Invasive Alga Gracilaria vermiculophylla, Timothy Lee
GP13 Nassau Grouper Larval Distribution in Response to a Changing Climate and its Potential Fisheries Impact, Brian Bartlett
GP14 Genetic analysis of miRNA translation control in maize, Hailong Yang
GP15 Will you be my neighbor? Exploring the relationship between iron-oxidizing and sulfate-reducing bacteria in coastal systems, Chequita Brooks
GP16 Design of an MeV Range Particle Accelerator Beamline for the Purpose of Optically Stimulated Luminescence, Joel Pogue

*Co-Presenter
Evaluation of the Ecological Services of Stormwater Control Measures in a Nutrient Sensitive Watershed, Caitlin Skibiel

Infinity, human consciousness, and string theory, Jacek Teller

A Study of Impurities in Emerald and Beryl as Indicators for Color, Daniel Gray

Constraints on incremental assembly of upper crustal igneous intrusions, Henry Mountains, Utah, Laura de Sousa

Passive acoustic monitoring for estuarine fish in very-shallow water using multi-channel hydrophone arrays, Phillip Deville

Geophysical survey of a buried Triassic rift basin, Bertie County, North Carolina, Cody Shell

Development of a material analysis system using proton induced x-ray emission, James Eisenmann

Impact of the insect growth regulator pyriproxyfen on life table characteristics of Aedes albopictus, Megan Rhyne

The effects of climate variability on ichthyoplankton ingress phenology through Beaufort Inlet, NC, USA, William Thaxton

Defining the Late Pleistocene Stratigraphy of a Low Gradient Coastal System in Beaufort and Hyde Counties, North Carolina, Amy Cressman

Simulating Transient Flow on Barrier Islands in Response to Predicted Climate and Sea-level Rise, Kyle Prock

Could Viral Co-infection of Mosquitoes Impact Current Vector Control? Avian White

Biophysical studies of Platelet-Fibrin Interactions, Laura Russell

Simon Says Help Me Procreate! Testing Behavioral Differences in two Non-Native Crabs after Exposure to a Microphallid Trematode, Rebecca Barnard

Investigating Incrementally Assembled Intrusions in the Upper Crust, Henry Mountains, Utah, Tanner Eischen

Response of groundwater systems to changes in predicted climate, Tyler Anderson

The Geological Constraints of Blue Carbon Sequestration in Salt Marshes, Casey Gilleland

*Co-Presenter
| GP34 | Simulating the Seasonal Change of Precipitation in the Southeast United States, Mary Brown |
| GP35 | Stabilizing Commercial Starch Based Emulsions, Rohan Parekh |
| GP36 | Dynamic and Thermodynamic Mechanisms for the Onset of the Southeastern United States Convective Season, Hannah Wells |
| GP37 | Hickory Shad Stock Identification Using Multiple Methods, Steve Meyer |
| GP38 | Genetic Analysis of miR319-regulated TCPs in Maize Development, Jessica Wilson |
| GP39 | Landscaping for Pollinators with Native Plants on Solar Panel Farms, Ashley Dow |
| GP40 | Potential for sublethal insecticide exposure to impact vector competence of Aedes albopictus (Diptera: Culicidae) for Zika virus, Heidi Knecht |
| GP41 | Effects of Mechanical Manipulation on Cancer Cell Motility and Proliferation, Sean Cavenaugh |
| GP42 | Sediment, Water-Quality, and SAV Interactions in Currituck Sound, NC, Natasha Biarrieta |
| GP43 | Characterization of Polytipic1 Expression in Inflorescence Development, Anastasia Amoioglou |
| GP44 | The Coloring Effect of Chemical Impurities in Emerald and Beryl, Cindy Mauro |

**Social Room | Biomedical Sciences**

| GP45 | The impact of mobile HRV training on depression in military personnel with posttraumatic stress disorder, John Locke |
| GP46 | The effects of zinc oxide nanoparticles on the pharyngeal pumping and neurological behavior of Caenorhabditis elegans, Luke Lish |
| GP47 | EphrinA1-Fc-Induced Phosphorylation and Nuclear Translocation of STAT3 Mitigates I/R Injury in Mouse Heart, Samuel Vance |
| GP48 | Cognitive Motor Control: The Event Related Potential of Tool-use, Alexandra Shaver |
| GP49 | Defining Synaptic Circuitry in Autism Spectrum Disorders, Kinsley Tate |
| GP50 | The Effect of Poxvirus Virulence Genes on Host Immune Response, Alexandra Hayes |
| GP51 | Comparisons of Tumor Movement with Fiducial Movement Using 4D CT for Cyberknife Treatment for Lung Cancer Patients, Yurianna Huh |
| GP52 | Film dosimetry in dose delivery to mice for clinical trials, Dillon Ellis |
| GP53 | Generation of Transgenic Models to Isolate Mammalian Spermatogonia, Oleksandr Kirsanov |

*Co-Presenter*
Graduate Poster Presentations

10:00 AM - 12:00PM

GP54  The Effect of Ca2+ on α-synuclein Binding to Transglutaminase 2, James Washington

GP55  Pharmacological Regulation of Neural Circuit Formation in hIPSC-derived Neurons and 'Mini-brains', Taylor Rudisill

GP56  Using MALDI-MSI to determine relative quantitation of ephrin-A1 in murine cardiac tissue, Justin Parks

GP57  Presentation Assessing Damage-Associated Molecular Patterns (DAMPs) activation by Cannabinoids and Prostagladins, Rene Escobedo

GP58  Do Lymphocytes from the Mediastinal Lymph Nodes of Carbon Nanotube + EAST-6 Instilled Mice Produce an Adaptive Immune Response? Victoria Sanderford

GP59  The manganese exporter EmfA is a critical virulence determinant for Brucella abortus 2308, Matthew Johnsrude

GP60  AMP Deaminase 3 Knockout Does Not Reduce Mitochondrial Content Loss in Denervation Induced Inactivity, Nicholas Verhoeven

GP61  A Smad3/FoxO3 Transcriptional Relationship in the Regulation of Vascular Growth, Jake Francisco

GP62  Chronological Expression of Matrix Metalloproteinase-12 in Granulomatous Disease, Nicole Neequaye

GP63  Sensitization of malignant cells by nanoparticles to proton radiation, Nicole Libby

GP64  Construction of Realistic Hybrid Computational Fetus Models for Radiotherapy Applications, Rasha Makkia

GP65  Examination of immune cell-mediated cell death as a new approach to selectively eliminate non-melanoma skin cancer, Ariel Myers

GP66  Developmental manipulation of endocannabinoid signaling persistently alters reinforcing properties of abused drugs, Ahmed Aldhafiri

GP67  Coordinated Regulation of the Chkb and Cpt1b Genes in a Unitary Epigenetic Domain, Bhavin Patel

GP68  Determining the Mechanism of how Increased mRNA Modification N6-methyladenosine (m6A) Increases Proliferation, Migration and Invasion of Breast Cancer Cells, Mohammed Dorgham

*Co-Presenter
Electron Emission from Fast Ion Interactions with Gold and Amorphous Solid Water, Wilson Hawkins

Dynamic Posture in University Student, Marisa Lee

Feasibility of using mesenchymal stem cell-derived skeletal myotubes to study skeletal muscle biology in vitro, Alec Chaves

Effects of Cannabidiol (CBD) on Vocal Learning and Recovery from CNS Damage, Ali Alalawi

Construction and Callibration of a Micro-PIXE Line, Austin Davis

Proton and Carbon-Ion induced Secondary Electron Emission from Gold and Condensed-Phase Biological Targets, Eric Maertz

Hyaluronan and Hyaluronan Synthase Expression in Cortical Brain Development, Emily Wilson

Real Time Imaging of GFP Tagged XRCC1 Repair Protein Responding to DNA Strand Breaks, Todd Mendenhall

Accelerator Driven Proton Microbeam System for Radiation Biophysics Studies, Robert Jobe

A regulatory role for the proton-sensing G protein-coupled receptor GPR68 in abnormal growth of vascular smooth muscle, Joshua Morgan

AMP Deaminase 3 Overexpression Reduces Mitochondrial Content in C2C12 Myotubes by Decreasing PGC-1α Promotor Activation, Spencer Miller

Elevated Skeletal Muscle Glucose Transporter 6 Levels May Attenuate High Fat Diet-Induced Insulin Resistance in Female Mice, Parker Evans

Dopamine Receptor D3 Has Sex-specific Roles in Age-dependent Left Ventricular Remodeling, Gabriel Grilo

A neutron microbeam irradiator at ECU radiological research accelerator facility, Raafat Haibet
Graduate Poster Presentations

Social Room | Human Health

8:00 AM - 10:00 AM

GP83 The Effectiveness of Battlefield Acupuncture in Reducing Pain, Aaron Craven
GP84 The comparison of two assessments in measuring keyboarding skills of elementary students, Alison Homan
GP85 Comparing Physical Activity Barriers in Adolescents With and Without Autism Spectrum Disorder, Nicholas Leahy
GP86 Effects of Music on Driving Performance in Individuals with Autism Spectrum Disorder Compared to Neurotypical Individuals, Brittany Goehmann
GP87 Chronic Pediatric Health Disorders in Economically Disadvantaged Families: Assessment of Stress and Coping in Children and Parents, Alexis Metz
GP88 Anxiety and College Students: The Benefits of Mindfulness-Based Meditation, Amelia Saul
GP89 Ground Reaction Force And Kinematic Differences In The Kicking Leg During Accurate And Maximal Effort Soccer Kicking, Kelsey Reeves
GP90 How Strength and Motion Training Effect Quadriceps Strength and WOMAC Score in Adults with Knee Osteoarthritis, Olukunle Akindahunsi

10:00 AM - 12:00 PM

GP91 Development of Narratives in Kindergarten Latino Children, Carson Hauswald
GP92 Increases in insulin signaling following electrical pulse stimulation are blunted in myotubes derived from severely obese individuals with or without type 2 diabetes, Seongkyun Lim
GP93 Risk Assessment of Forester Exposure to Hymenoptera, Danielle Carter
GP94 Analysis of the Impact of Cranial Base Abnormalities on Cerebellar Volume and Velopharyngeal Variables Related to Speech in 22q11.2 Deletion Syndrome, Abigail Haenssler
GP95 Secondary Post-Traumatic Stress and Its Treatment in Children of PTSD Veterans, Alexis Maxwell & Tacy Lebaron
GP96 Maintaining a sense of identity across the caregiving trajectory, Anna Batts
GP97 The Variation in Strength Decrement of Lower Extremity Muscle Groups and Biomechanical Plasticity in Older Adults; A Research Proposal, Ashley Moulder
GP98 Maternal Aerobic Exercise and DHA Levels during Pregnancy Influences Infant Heart Outcomes, Cody Strom

*Co-Presenter
Graduate Poster Presentations

2:00 PM - 4:00 PM

GP99  Barriers to Healthy Eating in North Carolina-based Head Start Programs: Examination of Food and Beverage Practices, Kristi Wilkerson

GP100  A Case Study of Virtual Reality Graded Exposure Therapy (VRGET) in Military Personnel with Post-Traumatic Stress Symptoms, Joseph Riddle

GP101  Effects of Visual Rehabilitation on Occupational Performance and Participation, Caroline Pray

GP102  The Isolation and Quantification of Metabolically Active Pharmaceutical Compounds in Drinking Water, Ryan Coco

GP103  The Relationship of Physical Activity and Motor Skills in Children Ages 3 – 5 Years Old: National Youth Fitness Survey, Aaron Wood

GP104  It’s not only your classroom, learning is chaotic, Jessica McDonnell

GP105  Understanding Influences of Preschool Children’s Fruit and Vegetable Liking in a Low-Resource Population, Candace Underwood

MSC Gallery | Education  8:00 AM - 10:00 AM

GP106  Outcomes of a Formal Keyboarding Instruction Program on Keyboarding Skills of Kindergarten Through Fifth Grade Students With Disabilities, Sydney Branson

GP107  Do Head Start Teachers in North Carolina Use Supportive Feeding Practices at Mealtimes with 3-5-year-old Low-Resource Children? Kristina Bandy

GP108  Factors that Influence Rural Head Start Parental Engagement in Preventing Childhood Obesity, Amy Lee


MSC Gallery | Social Sciences  8:00 AM - 10:00 AM

GP110  An Analysis of Beach Nourishment Projects Conducted by Local Governments in North Carolina, Edward Dembowski

GP111  Exploring Social Inequality at Petra through Dental Pathology, Alysha Lieurance

GP112  Why Won’t You Leave: An Evaluation of Employees’ Willingness to Take Time Off, Shelby Akers

*Co-Presenter
### Graduate Poster Presentations

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP113</td>
<td>Examining the Relationships Between Supports for Youth Development and School Connectedness in a Police Athletic League After School Program, Katina Hilliard</td>
<td></td>
</tr>
<tr>
<td>GP114</td>
<td>Workaholism and Affect: The Moderating Role of Mindfulness, Gerald Bellows</td>
<td></td>
</tr>
<tr>
<td>GP115</td>
<td>Together We Can: Increase Couple Functioning for Low-SES Families, Lindsey Almond</td>
<td></td>
</tr>
<tr>
<td>GP116</td>
<td>An Investigation of the Impact of a Sustainability Coordinator, Shivani Pandya</td>
<td></td>
</tr>
<tr>
<td>GP117</td>
<td>Does Interpersonal Conflict Management Influence the Current Relationship, Andra Glover</td>
<td></td>
</tr>
<tr>
<td>GP118</td>
<td>“Sure I’ll do that but the joke’s on you.” Trait Aggression and Malicious Compliance in the Workplace, Lauren Scanlan</td>
<td></td>
</tr>
<tr>
<td>GP119</td>
<td>Early Literacy Within Pitt County: Perspectives From Community Stakeholders, Shawnice Johnson</td>
<td></td>
</tr>
<tr>
<td>GP120</td>
<td>A prospective cohort study of patient portal use among primary caregivers of children with comorbidities, Gladys Ruby Gonzalez</td>
<td></td>
</tr>
<tr>
<td>GP121</td>
<td>Using dental metric analysis to understand prehistoric population variability on the north carolina coastal plain, Kara Weidner</td>
<td></td>
</tr>
<tr>
<td>GP122</td>
<td>Future Flood Risk Perceptions Following Hurricane Matthew: A Study of Eastern North Carolinians, Samantha Connolly</td>
<td></td>
</tr>
<tr>
<td>GP123</td>
<td>Outer Banks Tourists’ Preferences, Sensitivities, and Environmental Perceptions: A Case Study of Cape Hatteras National Seashore, Logan McSherry</td>
<td></td>
</tr>
<tr>
<td>GP124</td>
<td>Stable Isotope Analysis of Childhood Diet at 1st Century B.C./A.D. Petra, Jordan, Mallory Provan</td>
<td></td>
</tr>
<tr>
<td>GP125</td>
<td>Responses of NFL Owners to Players’ Protests of Social Injustice, Alora Brackett</td>
<td></td>
</tr>
<tr>
<td>GP126</td>
<td>Site formation processes and assigning significance to submerged cultural sites, Tara Van Niekerk</td>
<td></td>
</tr>
<tr>
<td>GP127</td>
<td>Focus groups with parents: What does it mean to be “healthy?” Erin Sesemann</td>
<td></td>
</tr>
<tr>
<td>GP128</td>
<td>Operationalizing Frequent Emergency Department Use: A Systematic Review, Jessica Goodman</td>
<td></td>
</tr>
</tbody>
</table>

*Co-Presenter*
Graduate Poster Presentations

GP129  Let’s Talk About Stress: Exploring Physiological Arousal While Discussing Relationship Problems, Braden Brown

GP130  The Association between Poor Quality Sleep, Daytime Sleepiness, and Eating Behaviors among College Students: An Ecological Momentary Assessment, Emily Midgette

GP131  Mindfulness and Self-Compassion as Protective Factors in Psychological Well-being, Erin Haley

2:00 PM - 4:00 PM

GP132  A Reaction-Diffusion Model for Market Fluctuations - A Relation between Price Change and Traded Volumes, Steven Yuvan

GP133  Sea-Level Rise: Risks to Cultural Heritage Sites, Matthew Harrup

GP134  The Impact of the Multiethnic Placement Agreement (MEPA) on Foster Families and Their Communication Environment, Jaquelin Dodge Evans

GP135  An Evaluation of Assessment Center Exercise Order Effects, Randy Knebel

GP136  A Grounded Theory Examination of the Experiences of Families of Individuals with Intellectual Disability across the Lifespan, Natalie Richardson
Graduate Online Presentations

Online Presentations | General

GON1  Wake Kids Move!: An Advocacy Plan for Increasing Physical Activity in Wake County Schools, Maria Bruzzo

GON2  Combating Food Deserts with Corner Stores in Eastern North Carolina: An Exploratory Study, Sara Wingate

GON3  Student-Teacher Book-Talks and Reading Motivation, Kayla Hacker

GON4  Examining the Impact of the Hidden Curriculum on First Year Medical Students: a quantitative approach, Christopher Thomas

*Co-Presenter
Postdoctoral Poster Presentations

Social Room | General

2:00 PM - 4:00 PM

PD1  Interleukin-6 Trans-Signaling in Response to Acute Myocardial Infarction in Male BALB/c Mice, Nathan Holland

PD2  Predicting the effects of predator diversity on prey populations, Elizabeth Hamman

PD3  Dietary DHA mitigates ozone induced pulmonary inflammation and reductions in specialized pro-resolving mediators, Brita Kilburg-Basnyat

PD4  The dihydroartemisinin oxime dimer (NSC735847) displays a selective toxicity in colon cancer cells which is potentially mediated by endoplasmic reticulum stress, Ahmed Elhassanny

*Co-Presenter
Research Week Daily Schedule

March 26 — April 2

MARCH 26
8:00 am – 5:15 pm | Graduate Student Presentations
   Oral sessions in MSC Great Rooms (GR1, GR2, GR3)
   Postdoctoral Scholar Posters in Social Room
   Graduate Posters in MSC Social Room
   Graduate Posters in MSC Room 221
   Graduate Posters in MSC Room Gallery
12:00 pm – 1:30 pm | Plenary Session

MARCH 27
7:30 pm – 12:00 pm | Graduate Posters | Posters taken down by noon
2:30 pm – 5:00 pm | International Scholars’ Symposium | MSC Room 244

MARCH 28
8:15 am – 3:30 pm | Undergraduate Student Presentations
   Oral Sessions | MSC Great Rooms (GR1, GR2, GR3)
   Undergraduate Posters | MSC Social Room
   Undergraduate Posters | MSC 221
   Undergraduate Posters | MSC Gallery
9:00 am – 11:30 am | Intersection of Arts and Sciences | MSC Room 244

MARCH 29
7:30 pm – 12:00 pm | Undergraduate Posters | Posters taken down by noon

APRIL 2
12:00 pm – 1:30 pm | Student Awards Luncheon (Invitation Only) | MSC Great Rooms 1+2+3
   RCAW Awards
   Thesis/Dissertation Awards
   ECU Distinguished Graduate Faculty Mentor Awards
   Carol F. Volkman Awards
Run with new ideas
THANK YOU!

Thank you for your interest in East Carolina University’s RESEARCH & CREATIVE ACHIEVEMENT WEEK 2018

The RCAW Committee would like to thank all of those who participated and attended.

Please do not forget to view our website for the online version of our program.

FOLLOW US!

ECUGradSchool @ECUGradSchool