Graduate Student, Postdoctoral Scholar, and Water Resources Center
Poster Presentations (In-Person)
Ballrooms, Main Campus Student Center

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<th>Ballrooms</th>
<th>Biomedical Sciences</th>
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**GP 7**
Effects of social dominance on the morphological and functional activity of the hypothalamic A11 dopaminergic nucleus, Carrie Adams

**GP 8**
Effects of perfluoroctanoic acid or high fat diet on whole body metabolism
Aya Ahmed¹, Matthew Wittenborn¹, Jamie DeWitt², Tracey Woodlief¹-
Pharmacology & Toxicology, Brody School of Medicine, East Carolina University, Greenville, NC¹,
Environmental & Molecular Toxicology, College of Agricultural Sciences, Oregon State University, Corvallis, OR²

**GP 9**
Estrogen-Dependent Upregulation of Cardiac Per2 and Heart-specific miRNAs are associated with Decreased Blood Pressure and Myocardial Oxidative Stress in Ovariectomized Rats
Syed Anees Ahmed¹, Baohong Zhang², Abdel A. Abdel-Rahman¹²Department of Pharmacology and Toxicology, Brody School of Medicine, ²Department of Biology, Life Sciences and Biotechnology Building, East Carolina University, Greenville, North Carolina, United States

**GP 10**
Enhancing Neuroimaging Data Integrity: A BIDS and MRIQC-Based Pipeline for Quality Control and Standardization
Bo Ao¹, Itza Sanchez Moncada¹, Giuliana Catalano²³, Dhwani Hada², Francis A.M Manno¹
¹Department of Physics, East Carolina University, Greenville, NC
²Department of Psychology, East Carolina University, Greenville, NC
³Department of Biology, East Carolina University, Greenville, NC

**GP 11**
Optimizing the isolation of meiotic spermatocytes and post-meiotic spermatids from the mammalian testis
Heather A. Belcher, Bryan A. Niedenberger, Emma A. Gilbert, and Christopher B. Geyer

**GP 12**
Utilizing murine models of pertussis to evaluate a novel mRNA diphtheria, tetanus, and pertussis vaccine
Bitzer GJ¹², Wolf MA¹², DeJong MA¹², Fitzgerald NA¹², Boehm DT¹², Hall JM¹², Bevere JR¹², Barbier M¹², and Damron FH¹²
¹West Virginia University School of Medicine, Department of Microbiology, Immunology, and Cell Biology, Morgantown, WV, USA.
²Vaccine Development Center, West Virginia University, Morgantown, WV, USA.
#New institution: East Carolina University, Brody School of Medicine, Department of Microbiology and Immunology, Greenville, NC, USA.

**GP 13**
Sexually Divergent Estrogen-dependent Regulation of Cardiopulmonary Connexin-43
Collin Brinkley, Syed Anees Ahmed, Abdel A. Abdel-Rahman
### Ballrooms | Education 9:30-11:30 AM

**GP 28**  
Adjusting Curriculum Based on Student Needs  
Elizabeth Browning

**GP 29**  
Utilizing Feminist Rhetoric to Foster Engagement in First-Year Composition Courses  
Jackie Derritt

**GP 30**  
Do Fidgets Improve Classroom Behaviors?  
Amber Ellis

**GP 31**  
Investigating Factors that Influenced the Motivation and Accountability of Seventh Grade Middle Schoolers  
Tara Forehand

**GP 32**  
**Fostering Team Science Competencies within CUREs: Analysis of biology student writing prompts**  
Fiona Freeland, Heather Vance-Chalcraft

**GP 33**  
¡Bienvenidos a ECU! Increasing Hispanic enrollment at ECU.  
Rich Klindworth

### Ballrooms | Human Health 9:30-11:30 AM

**GP 41**  
Comparison between WBGT App Prototype and WBGT Monitor to Assess Heat Stress Risk in Groundskeeping in an Eastern North Carolina University Setting  
Bridget Angol

**GP 42**  
Feasibility and acceptability of a mindfulness-based virtual reality program to promote mental health in older adults  
Marcos Ardon Lobos, Jaehyun Kim, Matthew Fish

**GP 43**  
Primary Tracheal Cancer: An Exploration Into the Treatment Outcomes, Demographic Trends, and Histology in the United States from 2000 – 2018  
Kristen Armel, Taylor Stamey, Andrew W. Ju, James E. Speicher, Musharraf Navaid, Aidan M. Burke, Michael C. Larkins, Arjun Bhatt  
1Brody School of Medicine, East Carolina University (ECU), Greenville, NC, United States  
2Department of Radiation Oncology, ECU, Greenville, NC, United States  
3Department of Cardiovascular Sciences, ECU, Greenville, NC, United States  
4Division of Hematology/Oncology, Department of Internal Medicine, ECU Greenville, NC, United States  
¶These two authors contributed equally to this work.

Taylor Brooke Stamey
GP 44
Self-Objectification in Collegiate Female Athletes
Rebekah J. Bergquist, BS & Bhibha M. Das, PhD, MPH, FACSM

GP 45
Unveiling Sperm Capacitation Dynamics: A Novel Spectral Flow Cytometry and Stochastic Modeling Approach
Benjamin Brisard¹, Aidan Charles¹, Ivie Henslee¹, Paul Vos², Debajit Bhowmick³, Cameron A. Schmidt¹,⁴
¹ Department of Biology, East Carolina University, Greenville, NC
² Department of Public Health, East Carolina University, Greenville, NC
³ Flow Cytometry Core, Brody School of Medicine, East Carolina University, Greenville, NC
⁴ Department of Physiology, Brody School of Medicine, East Carolina University, Greenville, NC

GP 46
Injuries and Fatalities in NC Farming, Logging, and Fishing: 2017-2023
Anna Doub - East Carolina University, Brody School of Medicine, Department of Public Health, Student
Robin Tutor Marcom - North Carolina Agromedicine Institute, East Carolina University, Brody School of Medicine, Department of Public Health, Mentor

Ballrooms | Natural Sciences 9:30-11:30 AM

GP 60
Development of 2D environmental dose-rate mapping of rock materials for OSL-dating
Mohammad Nazmul Alim

GP 61
The Investigation of the Soil Seedbank in a Long-term Mowing and Fertilization Experiment
Skyler DeWall

GP 62
OptoProfilin: A Single Component Biosensor of Cellular Stress
Jahiem Hill, Noah Mann, Kenneth Wang
Mentor: Robert Hughes

GP 63
Facile Synthesis of Beta Cyclodextrin Derivative
Yongtao Hu, Greyson Sanchez, Robert M. Hughes

GP 64
Structure and Dynamics of 15-Lipoxygenase-2
Andrew Jakobowski, East Carolina University, Department of Chemistry, Student
Adam R. Offenbacher, East Carolina University, Department of Chemistry, Mentor

Ballrooms | Social Sciences 9:30-11:30 AM

GP 71
Voices of Student Parents at East Carolina University
Madison Dickson and Dr. Sharon Ballard
GP 72
The Physical and Mental Health Care Outcomes of Integrated Care: A Systematic Review
Rylan Hellstern

GP 73
Mindfulness-Based Virtual Reality in Combination With Expressive Writing to Determine the Impact on Anxiety and Mental Health in College Students
Lyndsee M. Holder, Dr. Matthew Fish, Dr. Bhibha M. Das, Dr. Jaehyun Kim

GP 74
The relationship between isotopic evidence of childhood diet and childhood rickets in a 19th century Jordanian Bedouin population
Delphi Huskey, Megan Perry, Robert Tykot

GP 75
Cervical Cancer Prevention Behaviors in Black Women
Angela Johnson, MA, Brianna Bush, BS, Emma Muscari, MA, Michelle Ruiz, MA, Laura Palmo, MS, Lisa C. Campbell, PhD

GP 76
Serious Games in Support of School Consultation: An Examination of a Novel Approach to Behavior Intervention in Middle School Classrooms
Kelly Lojinger (B.A.), Abby Miller (B.A.), Brandon Schultz (Ed.D.), Steven Evans (Ph.D.)

Ballrooms | Engineering, Technology, Computer Science, & Interdisciplinary Innovation 10:00 AM-12:00 PM

GP 1
Hemodynamics analysis in a patient with end stage renal disease under hemodialysis via arteriovenous fistula with pulmonary hypertension
Fatemeh Bahmani (1), Kaitlin Southern (1), Alex Vadati (1), Veeranna Maddipati (2), Stephanie M. George (1)
(1) Department of Engineering  (2) Internal Medicine, Brody School of Medicine

GP 2
ANALYZING THE EFFECT OF REBAR HEATING ON BRIDGE STRUCTURES: SURFACE TEMPERATURE IMPLICATIONS
Pablo Nunez Hernandez, B.S.
Suranga Gunerathne, Ph.D., P.E.
Amin K. Akhnoukh, Ph.D., P.E., A.C.

GP 3
On Time in Game-Based Education: An Educator's Experience Designing an Adult Educational Game
Lina Flowers, Adult Education

GP 4
Assessing Land Cover Change Land Cover Use (LCCLCU) In Jamaican Mangroves: A 30-year assessment of drivers of ecosystem gains and losses.
Maria Gomez Saldarriaga
Combining Style Transfer capabilities with the Segment Anything Model, Seyedhadi Seyed

The Perils of Generative Model Inbreeding: Evaluating the Consequences of Cross-Model Training in Large Language Models, Gabrielle Stein, Nic Herndon

Oligomannose N-glycans Promote Invasiveness and EGF Stimulated Growth in Neuroblastoma
Burch AP, Hall MK, Schwalbe RA

Investigating the role the polar autotransporter adhesin genes encoded by Brucella have on crossing mucosal barriers and virulence.
Connor B. Cribb, Graham J. Bitzer, Ian S. Barton, Daniel W. Martin, R. Martin Roop II

Higher Sensitivity of Sprague-Dawley Rats Sub-strain to Vascular Endothelial Cell Growth Factor Receptor Inhibition Leads to Pulmonary Arterial Hypertension.
M.K. Donovan and Abdel A. Abdel-Rahman

SK1 Is Upregulated Following Spinal Cord Injury in Zebrafish Affecting Recovery and Regeneration
Patrick Garrett

Tissue-Intrinsic Signaling Effects on Niche Formation in Drosophila Gonads
Ariel Harrington and Lauren Anllo

Quantification of Neutrophil Morphology through Diffraction Imaging
Ismail Ibrahim

The pH-sensing G protein-coupled receptor GPR68 directs vascular proteome remodeling
Madison D. Williams¹, Kristen R. Carraway², Kyle D. Mansfield², Tonya N. Zeczycki², and David A. Tulis¹
Department of Physiology, Brody School of Medicine, East Carolina University, Greenville, NC¹
Department of Biochemistry and Molecular Biology, Brody School of Medicine, East Carolina University, Greenville, NC²

Social anxiety in People Who Stutter
Amber Faircloth, M.S., CCC-SLP (1)
Patrick Briley, PhD, CCC-SLP (1)
1 Department of Communication Sciences and Disorders, East Carolina University
GP 48
Association of Timing and Displacement Measures with Bolus Clearance Ratio following Intensive Prophylactic Therapy in Head and Neck Cancer Patients
Mark Gardener, BFA, BM, MM1; Deirdre Larsen, PhD1,2,3

GP 49
Effects of Maternal Exercise on Infant Mesenchymal Stem Cell Mitochondrial Functioning, Content, and Infant Body Composition in Early Infancy
Filip Jevtovic, Alex Claiborne, Kara Kern, Breanna Wisseman, Ericka Biagioni, Dylan Steen, Linda May, Alex Claiborne, Kara Kern

GP 50
Skeletal muscle metabolism inconsistent with whole-body metabolic flexibility in overweight, nondiabetic individuals
Polina Krassovskaia, Filip Jevtovic, Marta Chorzepa, Terry Jones, Charles Tanner, Donghai Zheng, Walter Pories, Lynis Dohm, Joseph Houmard, Nicholas Broskey

GP 51
Exploring Protective Factors Against Adverse Childhood Experiences in Primary Care: A Systematic Review Based on Ungar's Socio-Ecological Resiliency Model
Betül Küçükardalı-Cansever, MA, PhD Candidate in Medical Family Therapy
Abby Elizabeth Caldwell, BS in Biology
Natalia Sira, PhD, MD
Angela Lamson, PhD, LMFT

GP 52
Soleus Cross-Sectional Area and Fiber-Type Shift at the Intersection of Age and Exercise
Justin McCrary1,*, Anna Webster1,*, Emily Bowser2, Emily Rust2, Ted G. Graber1,2,3,4
* = equal contributions
Affiliations:
1 Ecu Dept, of Physical Therapy, 2 ECU Dept. of Kinesiology, 3 ECU Dept. of Physiology, 4 East Carolina Diabetes and Obesity Institute

GP 53
Tensor Veli Palatini Differences Between Children With and Without Cleft Palate: A Preliminary Volumetric Analysis
McKenzie Perry, BS; Julia Gillespie; Imani R. Gilbert, MS; Taylor D. Snodgrass, MS; Jamie L. Perry, PhD

Ballrooms | Social Sciences | 10:00 AM-12:00 PM

GP 77
Multiple Group Categorical CFA: Comparisons of NC and SC Elementary Students on Social Emotional Health Survey-Primary
Kaitlynn Carter, Brandon Schultz, EdD, NCSP, Alexander Schoemann, PhD, Mark Weist, PhD

GP 78
Disparities in anxiety, depression, and perceptions of school climate between Latino English Language Learners (ELL) and Latino non-ELL students.
Abby Miller, Kelly Lojinger, Dr. Brandon Schultz, Dr. Mark Weist
GP 79
Exploring the Impact of Pre-Medicare Coverage Gaps on Healthcare Utilization Among Older Adults: A Study of Medicare Enrollees in the United States
Jada L. Morris, Dr. Dmitry Tumin, Dr. Yan Zhang, PhD

GP 80
Where the 'Middle' is Our Specialty: The Tuscarora as Middlemen at Fort Neotheroka
Mallory Purser

GP 81
Using stable carbon and nitrogen isotope values to estimate exposure to agricultural chemicals among green monkeys (Chlorocebus sabaeus) in St. Kitts
Emilia N. Rose & James E. Loudon

GP 82
Mental Health Concerns and Help Seeking Behavior among Latinx College Students
Michelle Ruiz
Angela J Johnson, Laura Altagracia Palmo

GP 83
Exploring Literature on Black Women’s Experiences with Perinatal Loss, Grief, and Coping
Annagrace Saufley and Sandra Lookabaugh, Ph.D.

GP 84
Pouring Over the Past: Interpreting Life at a Colonial Tavern
Addison Siemon

| Ballrooms | Education | 1:00-3:00 PM |

GP 34
Parental Involvement with Homework During Elementary Years
Elizabeth Lasson

GP 35
The Link between Consistent Social Emotional Learning and Student Academic Performance
Jenna McLawhorn

GP 36
Cancelled

GP 37
Creative Atmospheric Conditions Presentations Through the Use of Guided Research Inquiry-Based Instruction: Action Research Proposal
Zion Streeter

GP 39
Parents’ and Teachers’ Perceptions of the Effectiveness of Preschool in Terms of Mathematical Kindergarten Readiness
Stephanie Wood
Effects on Student’s Performance from Parent Knowledge of Self-Contained and Inclusive Classrooms
Sonmia Lewis

Ballrooms | Biomedical Sciences 1:00-3:00 PM

GP 21
Development of novel compact wind tunnel for testing efficacy of insecticide formulated products in mosquitoes
Will Murray¹,², Sinan Sousan²,³, Avian White⁴, Kaya Peyton⁴, Raven Slade⁴, Stephanie Richards¹,⁵
¹Environmental Health Science Program, Department of Health Education and Promotion, College of Health and Human Performance, East Carolina University
²Department of Public Health, Brody School of Medicine, East Carolina University
³North Carolina Agromedicine Institute
⁴Department of Environmental, Earth, and Geospatial Science, College of Health and Sciences, North Carolina Central University
⁵Project Mentor

GP 22
Physical Characterization and Cellular Testing of Polymeric Micelle Formulations for Intravenous Delivery of Hydrophobic Anticancer Drugs
Ashton Norris, Tyler King, Rukiyah Van Dross, Kathleen Thayne, Colin S. Burns

GP 23
Modeling of blood pressure wave propagating in artery
Yonghong Qin

GP 24
Deciphering the Role of Renin-Angiotensin-Aldosterone System in Hypertension: A Comprehensive Study on Receptor Dynamics and Left Ventricular Function
Berwin Singh Swami Vetha, DaQuan Rudolph Mebane

GP 25
The transcriptomic cortical alterations in profound hearing loss
Xuan Wang, Itzamná Sánchez-Moncada, Bo Ao, J. Tilak Ratnanather, Francis A. M. Manno

GP 26
Overexpression of the Ecdysone Receptor promotes an undifferentiated transitional state during germline stem cell differentiation
Alexandria Warren, Lauren Jung, Elizabeth Ables

GP 27
Cancelled

Ballrooms | Human Health 1:00-3:00 PM

GP 54
Event-related potential (ERP) measurement of noun and verb production in aphasia
Sarah Porter, East Carolina University
Matthew Walenski, East Carolina University
Functional and Temporal Velopharyngeal Muscle Movements During Speech
Samantha J. Power1, MS, Bradley P. Sutton2, PhD, Jamie L. Perry1, PhD
1 Department of Communication Sciences and Disorders, East Carolina University, Greenville, NC
2 Bioengineering Department, University of Illinois at Urbana Champaign, Urbana, IL

Comparison of displacement measures on modified barium swallow studies between symptomatic and asymptomatic people with cricopharyngeal dysfunction
Alyssa Rowe, Wilson Wysor, Deirdre Larsen

RETURN TO RUN PROTOCOLS AND LOAD PROGRESSIONS FOR BONE STRESS INJURY: A RAPID REVIEW
Emily Seguin, SPT
Sarah Johnson, PT, DPT
Stacey Meardon, PT, PhD

Intraductal Carcinoma of the Prostate (IDC-P): Treatment, Demographic, and Geographic Trends in the United States
Taylor Stamey1, Kristen Armel1, Andrew W. Ju2, Shoujun Chen3, Musharraf Navaid4, Michael C. Larkins1¶ & Arjun Bhatt1¶
1Brody School of Medicine, East Carolina University (ECU), Greenville, NC, United States
2Department of Radiation Oncology, ECU, Greenville, NC, United States
3Department of Pathology & Laboratory Medicine, ECU, Greenville, NC, United States
4Division of Hematology/Oncology, Department of Internal Medicine, ECU Greenville, NC, United States
¶These two authors contributed equally to this work.
Kristen Elizabeth Armel

Effect of High Intensity Interval Training on Physical and Cognitive Function in Middle-Aged Male C57BL/6 Mice
Justin Stephenson1, Tuan Tran2, Ted Graber1,3,4,5

Like two peas in a pod: The co-occurrence of metal and antibiotic resistance genes across aquatic ecosystems
Cory Joyner1, Erin Field1
1Department of Biology, East Carolina University

Investigating links between pectin dynamics and meristem activity in maize
Charles Maus, Daniel Maynard, Hailong Yang, Beth Thompson

Population demographics and parasite prevalence of the non-native green porcelain crab (Petrolisthes armatus) at the northernmost limit of its range

**GP 68**  
Transcriptomic analysis of white-fingered mud crabs uninfected and infected with a castrating parasitic barnacle.  
Carter Stancil, Michael Brewer, April Blakeslee, Zac Tobias, Carolyn Tepolt

**GP 69**  
Artificial Reefs as Climate Refugia: Investigating How Man-Made Habitat Affects Changing Spawning Phenology and Distribution in Groupers and Snappers  
Charles Veith and Rebecca Asch

**GP 70**  
Cancelled

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**GP 85**  
The Heart of the Problem: Assessing the Relationship between Workaholism and Health-Related Outcomes  
Adam Tresidder  
Shahnaz Aziz, Ph.D.

**GP 86**  
Every Therapist Needs a Therapist: A Tentative Theory Exploring How Therapists-in-Training and Recent Graduates Decide to Attend Therapy  
Mary Wheeler

**GP 87**  
The effects of self-efficacy on the temporal and behavioral consistency on pre-performance routines in an ROTC shooting task.  
John White-Singleton

**GP 88**  
Prediction to the MAX(ent): Comparing Logistic Regression Predictive Models to Maximum Entropy Models in the North Carolina Coastal Plain  
Libby Wruck

**GP 89**  
Dead Men Tell No Tales, But Animal Bones Do  
Jay Mayfield-Loomis

**GP 90**  
Lost not Found: A comparative analysis of the Cape Creek site and its connection to the Lost Colony  
Autumn Jean Saski
**Ballrooms | Natural Sciences/Water Resources Center A 2:30-4:30**

**GP 91**  
Assessment of Dry Detention Basins to Evaluate Retrofit Potential for Water Quality  
Joseph Abuarab  
Michael O’Driscol - Department of Coastal Studies  
Guy Iverson - Department of Health and Human Performance  
Rob Howard - Department of Geography

**GP 92**  
Mapping Nearshore Bathymetry for Coastal Resilience in the Caribbean  
Daystar Babanawo, David Lagomasion, Siddharth Narayan

**GP 93**  
Spatial dynamics of mangrove mosquito communities: temporal shifts, connections to environmental conditions, and associations with human-mosquito interactions  
Kinsey Blumenthal, David Lagomasino, Aaron Kipp, Stephanie Richards, Lawrence Reeves, Rachael Gitman

**GP 94**  
Industrial Fishing and its Impacts on Food Security: A Systematic Review  
Samantha Farquhar

**GP 95**  
Factors influencing nitrogen treatment performance of in-stream and stormwater outfall regenerative stormwater conveyances in the NC Coastal Plain  
Colin Finlay\(^1,2\), Michael O’Driscol\(^2,3\), Ariane Peralta\(^1,2\)  
\(^1\) Department of Biology, East Carolina University  
\(^2\) Water Resources Center, East Carolina University  
\(^3\) Department of Coastal Studies, East Carolina University

**GP 96**  
Evaluation and application of a soil water content metric in North Carolina watersheds  
Jennifer Fulcher

**GP 97**  
Foraminifera as Indicators of Sediment Transport by Hurricanes, Onslow Bay, NC.  
Asher Jacobik, Stephen J. Culver, David J. Mallinson

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**Ballrooms | Natural Sciences/Water Resources Center B 2:30-4:30**

**GP 98**  
Calibration of two electromagnetic induction (EMI) sensors for their use in soil conductivity mapping of salinized agricultural fields.  
Blake King  
Alex Manda  
Matthew Sirianni

**GP 99**  
Assessing Changes to Sediment Transport, Microfauna, and Seabed Morphology Related to a Coastal Restoration Project: Sugarloaf Island, NC  
Kristen N. Malosky, David Mallinson, Steve Culver
GP 100
The impact of hurricanes on the resilience of spot (*Leiostomus xanthurus*) off the North Carolina coast
Jessica N Miller, Rebecca G Asch

GP 101
Improving the Coastal Carbon Cycle with Space Based Observations of Reef Complexity
Shalimar G. Moreno, David Lagomasino

GP 102
Hydrogeophysical investigation of Shackleford Banks using electrical resistivity tomography examining freshwater availability and quality
Jackson Rizzolo
Matt Sirianni

GP 103
Pay Attention to Small Flooding: A Review on Socio-Economic Risks of High-tide Flooding
Yicheng Xu

GP 104
Assessing Nutrient Reduction of Town Commons Creek’s Green Infrastructure
Brice Long (Department of Engineering and Technology), Neda Safari (Department of Geography, planning, and Environment), Skyler Morris (Department of Biology), Lucia Wall (Department of Environmental Studies and Biology), Dr. Moysey (Department of Geological Science), Dr. Manda Department of Geological Science, Dr. O’Driscoll (Department of Costal Studies), Dr. Sirianni (Department of Geological Science)

| Ballrooms | Natural Sciences/Water Resources Center C | 2:30-4:30 |

GP 105
WaterCorps - A student led environmental consulting organization: Updates and Opportunities
Braden McPhillips, Camryn Landreth, Nicholas Kruchten, Matthew Sirianni

GP 106
Seasonal and Spatial Variability of Recreational Water Quality at Nags Head, NC
Austin Newton Mentors: Manda, Alex, Moysey, Stephen, O’Driscoll, Michael

GP 107
Factors That Affect Polyphosphate-Accumulating Organism Performance in Enhanced Biological Phosphorus Removal
Autumn Robinson¹, Ketan Chamakura¹, Katherine Foster¹, Anna Koirala¹, Gary Li¹, Natasha Bell², Erin Field¹
¹ Department of Biology, East Carolina University, Greenville, NC, USA
² Department of Biological Systems Engineering, Virginia Tech, Blacksburg, VA, USA
Funding: UNC Research Opportunities Initiative

GP 108
Socio-ecological Restoration at the Boundary Integrative Monitoring in South Florida Protected Areas
John Edward Sabin III

GP 109
Hybrid constructed wetlands for treatment of marine aquaculture wastewater
Kimiya Yousefi, Department of Chemistry, East Carolina University.
Natasha Bell, Department of Biological Systems Engineering, Virginia Tech.
Randall Etheridge, Department of Engineering, East Carolina University.
Steve Hall, North Carolina State University, Biological and Agricultural Engineering.

GP 110
Analyzing Public Support for Sustainable Hog Production in North Carolina
Katie Wagner

GP 111
Utilizing the Calm Before the Storm: An Exploration of Disaster Mitigation in Princeville, North Carolina
Alexandra Stevenson

GP 112
Exploring the Implementation of Urban Social-Ecological Gradient Analysis
Roshan Saud and Steven M. Richter

1Department of Geography, Planning and Environment

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Ballrooms | Water Resources Center Community Partners | 2:30-4:30

WRC 113
CAR’s History of fighting for justice and supporting Working People
Don Cavellini, Eddie Williams
Pitt Co. Coalition Against Racism (CAR)

WRC 114
Impacts on the Biodiversity, Abundance, and Community Composition of Fish Larvae and Zooplankton Due to Ship-Channel Dredging
Rebecca G. Asch, Naomi Jainarine, Abigail Alford, Brian Bartlett, Christine Chan, Elise Easterling, Esra Gokturk, Peyton Jackson, Taniya Johnson, Caitlin McGarigal, Quentin Nichols, Brianna Salazar, Jalen Walker, Zachary Reece Warfel, Celilia Wood, Mae Wright
East Carolina University, Department of Biology

WRC 115
ROCK Museum
ROCK Museum/Kaye Lees Corner Foundation
Kaye Lee Brady

WRC 116
Greenville Rotary Community Work
Hunt McKinnon

WRC 117
A Process for Asset Mapping to Develop a Blue Economy Corridor
Dr. Emily Yeager, Dr. Beth Bee, Taylor Cash, Anjalee Hou, Michael Schilling, Kelsi Dew
Recreation Sciences

WRC 118
Communities thrive within strong networks. Come be a part of the NC EJ Network.
Dani Lin Hunter and Chris Hawn
NC Environmental Justice Network
WRC 119
Environmental Justice Work in Sampson County
Hayley Gorham, Sherri White-Williamson, Denise Robinson, Saisha Neilsen, Christian Felipe
Environmental Justice Community Action Network

WRC 120
Together for a common cause? Cooperative tendencies in transdisciplinary research groups aimed at solving water quality and quantity issues in Eastern North Carolina.
Kyra Selina Hagge, Delnaz Amroliwalla, Marcia R. Hale, Poonam Arora, Stephen Moysey
Department of Coastal Studies

WRC 121
Leading Inclusive Transformation in the Geoscience Community via an Intercultural Network of Learning Ecosystems - LIT GEO
Adriana Heimann Ríos, Edu Leorri, Alex Manda, Stephen Moysey
Department of Geological Sciences, East Carolina University

WRC 122
Herring Run Creek Tributaries Monitoring Project
Sarah Whifield
2024 WHS APES Students
Washington High School, BCS

WRC 123
Impact of Ship-Channel Dredging on Zooplankton Abundance and Species Composition in Summer Months in Beaufort Inlet, North Carolina
Taniya Johnson, Lulea Adams, Abigail Faith, Naomi Jainarine, Rebecca Asch
Asch Lab

WRC 124
Innovation Early College High School (IECHS) research: Investigating the effects of hog farming on local rivers in Eastern North Carolina

WRC 125
Coastlines and People Community Water Corps
Gigi Otranto, Jalind Lampa, Kent Brantley, Deshawn Matthews, Austin Newton, Emily Killebrew, Lauren Holliman, Dave Schwartz and Tara van Niekerk.

WRC 126
WaterCorps ~ A Student-Led Environmental Consulting Organization/Updates and Opportunities
Jeffrey McPhillips, Camryn Landreth, Nicholas Kruchten, Matthew J. Sirianni, Stephen Moysey

WRC 127
NC Community Information Portal
Water Resource Center

WRC 128
Investigation of Storm Surge Versus Saltwater Intrusion on Coastal Aquifer Salinization in Hyde County, North Carolina. Elnaz Pezeshki Stephen Moysey, Alex Manda, Andrea Gibbs, Tyler Palochak, Jon Gullett