

**PROGRAM**  
**74<sup>th</sup> Annual Meeting**  
**of the Southeastern Division of the AAG**



**Hosted by**  
**Department of Earth and Ocean Sciences**  
**University of North Carolina Wilmington**  
**Wilmington, NC**  
**November 24-25, 2019**

## **SEDAAG Executive Committee**

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**Vice President** William Graves, University of North Carolina at Charlotte

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## SEDAAG Honors Committee

**Chair** Matt Cook, Eastern Michigan University

**Committee Members** Ronald Schumann, University of North Texas; Anzhelika Antipova, University of Memphis; Eric Spears, Columbus State University; Sarah Praskievicz, University of North Carolina at Greensboro

## World Geography Bowl Committee

**Event Organizers** Dawn M. Drake, Missouri Western State University; Tom Bell, Western Kentucky University and University of Tennessee, Knoxville; Ethan Bottone, University of Tennessee, Knoxville and Minor League Baseball; Dawn Bowen, University of Mary Washington; Jamison Conley, West Virginia University; Peggy Gripshover, Western Kentucky University; Jeff Neff, Western Carolina University; Lee Ann Nolan, West Virginia University; Shane Canup University of North Carolina at Greensboro; Caleb Smith, Jones College; Jesse Andrews, Oklahoma State University; and Michael Pretes, University of North Alabama

**Moderators:** Dawn Bowen, University of Mary Washington; Jamison Conley, West Virginia University; Paul McDaniel, Kennesaw State University

**Judges:** Jake McDonald, University of North Georgia; Jesse Andrews, Oklahoma State University; Criss Smith, Clemson University

**Scorekeepers:** Ethan Bottone, University of Tennessee, Knoxville and Minor League Baseball; Ingrid Luffman, East Tennessee State University

**Master Scorekeeper:** Lee Ann Nolan, West Virginia University

### Teams and State WGB Coordinators

- **Florida:** Stephanie Mundis, University of Florida
- **Georgia:** Jake McDonald, University of North Georgia
- **Tennessee:** Andrew Joyner, East Tennessee State University
- **Virginia:** Joe Nicholas, University of Mary Washington
- **West Virginia:** Tom Saladyga, Concord University

**Dream Team:** Dave Kaplan, AAG President; Jamison Conley, Director of AAG World Geography Bowl; Joann Mossa, SEDAAG President; Doug Gamble, University of North Carolina at Wilmington; Matthew Balentine, University of North Alabama



# PROGRAM AT A GLANCE

Sunday, November 24		
8:00 AM - 7:00 PM	<b>Registration</b>	Cape Fear Lobby, Lobby Level
8:00 AM- 10:00 AM	<b>Executive Committee Breakfast</b>	Executive Board Room, Third Floor
11:00 AM - 2:00 PM	<b>Steering Committee Meeting</b>	Executive Board Room, Third Floor
10:30 AM - 11:15 AM	<b>World Geography Bowl Registration</b>	Cape Fear Lobby, Lobby Level
10:00 AM – Noon	<b>Field Trip: Walking Tour of Downtown Wilmington</b>	Hotel Ballast, Front Entrance
10:00 AM - 1:30 PM	<b>Field Trip: Wrightsville Beach</b>	Hotel Ballast, Front Entrance
11:30 AM - 12:00 PM	<b>World Geography Bowl Orientation</b>	Cape Fear Ballroom, Lobby Level
Noon - 3:00 PM	<b>World Geography Bowl Round Robin Competition</b> (winning teams and all-star team announced immediately following conclusion of Round Robin Competition)	DeRosset, Dudley, Latimer, Skinner (Third Floor)
3:00 PM - 4:00 PM	<b><i>Southeastern Geographer</i> Reception</b>	Carolina Room, Lobby Level
4:00 PM- 6:00 PM	<b>Paper and Poster Sessions</b>	Cape Fear Ballroom, DeRosset, Dudley, Latimer, Skinner, Bellamy, McRae (Third Floor)
6:00 PM - 8:00 PM	<b>Opening Reception</b> (co-sponsored by Study of the American South Specialty Group)	Riverview Terrace, Ground Floor (Merrick/Lillington Room if rain)

## Monday, November 25

7:00 AM - 1:00 PM	<b>Registration</b>	Cape Fear Lobby, Lobby Level
7:00 AM - 8:00 AM	<b>Status of Women in Geography Breakfast</b>	Carolina Room, Lobby Level
8:00 AM - 5:00 PM	<b>Paper, Poster, and Panel Sessions</b>	Cape Fear Ballroom (Lobby Level) DeRosset, Dudley, Latimer, Skinner, Bellamy, McRae (Third Floor)
8:00 AM - 5:00 PM	<b><i>Southeastern Geographer</i> Photo Competition</b>	Cape Fear Lobby, Lobby Level
Noon - 1:00 PM	<b>Stand-Alone Geographers Lunch</b>	Carolina Room, Lobby Level
5:00 PM - 6:00 PM	<b>SEDAAG Business Meeting</b>	Cape Fear Ballroom, Lobby Level
6:00 PM - 7:15 PM	<b>World Geography Bowl Championship</b>	Cape Fear Ballroom, Lobby Level
7:30 PM - 9:30 PM	<b>Honors Banquet and Plenary Address</b>	Grand Ballroom, Ground Floor

# Paper and Poster Sessions

Each paper time slot is 20 minutes long: 15 minutes for the paper presentation followed by 5 minutes of audience/presenter discussion. Please respect the chairperson's time cues.

## SUNDAY

## November 24

### 4:00pm - 6:00pm

PAPER SESSION

DeRosset

#### Human-Environment Interactions and Conservation

Chair: Burrell Montz (East Carolina University)

- 4:00     ***Managing Fire in Longleaf Pine Ecosystems in the Context of Future Climate Change and Landscape Transformation***     John Kupfer (University of South Carolina), Kirstin Dow (University of South Carolina), J. Hiers (Tall Timbers Research Station)
- 4:20     ***Controlled Burns, Soils, and Topography: Controls on Biodiversity in Wet Pine Savannas with Discussions of Longleaf Pines and Venus Flytraps***     Roger Shew (University of North Carolina at Wilmington), Dale Shew (Consultant)
- 4:40     ***Identifying Fine Structural Features Within the Low Relief of the Lower Mississippi River Basin***     John Nowlin (Arkansas State University), Michele Reba (USDA-Agricultural Research Service), Joseph Massey (USDA-Agricultural Research Service), Daniel Shults (Arkansas State University), Mary Yaeger (Texas Commission on Environmental Quality)
- 5:00     ***Making Sense of Uncertainty: Improving the Use of Hydrologic Probabilistic Information in Decision-Making***     Burrell Montz (East Carolina University), Rachel Hogan Carr (Nurture Nature Center), Kathryn Semmens (Nurture Nature Center), Keri Maxfield (Nurture Nature Center)

PAPER SESSION

Latimer

#### Optimization of the Urban, Rural and Liminal

Chair: Neil Debbage (University of Texas at San Antonio)

- 4:00     ***Where to Work: Comparing Quality of Life Across Metropolitan Areas Based on Locality Pay Differentials***     Andrew Riesenberger (Pennsylvania State University)
- 4:20     ***Measuring Performance of Signalized Intersection in Charlotte, North Carolina***     Md Mokhlesur Rahman (University of North Carolina at Charlotte), Jean-Claude Thill (University of North Carolina at Charlotte)

- 4:40 ***Using User-Generated Contents to Analyze Visitation Patterns and Perceived Values in Great Smoky Mountains National Park*** Inhye Kong (University of Georgia)
- 5:00 ***Potential Locations for Solar Farms in North Carolina*** Vani Singh (University of North Carolina at Charlotte), Nicolas Marecos (University of North Carolina at Charlotte)
- 5:20 ***Post-Significant Spatial Analysis*** Jamison Conley (West Virginia University)
- 5:40 ***Aviation Carbon Emissions, Route Choice and Tourist Destinations: Are Non-Stop Routes a Remedy?*** Neil Debbage (University of Texas at San Antonio), Keith Debbage (University of North Carolina at Greensboro)

PAPER SESSION

Skinner

## **Special Session: Geospatial Analysis of Coastal Vulnerability and Resilience**

Organizer and Chair: Joanne Halls (University of North Carolina at Wilmington)

- 4:00 ***Quantifying Residential Flood Damage in Pender County, North Carolina Following Hurricane Florence Using High Spatial Resolution PlanetScope Imagery*** Christopher Hidalgo (University of North Carolina at Wilmington), Narcisa Pricope (University of North Carolina at Wilmington)
- 4:20 ***Embankment Protection and Coastal Vulnerability in Bangladesh: Geospatial and Social Science Perspectives*** Md Islam (Virginia Tech), Thomas Crawford (Virginia Tech), Munshi Rahman (University of Wisconsin - Eau Claire), Bimal Paul (Kansas State University), Scott Curtis (East Carolina University), Md Miah (Banghabandhu Sheikh Mujibur Rahman Agricultural University), Md Islam (Banghabandhu Sheikh Mujibur Rahman Agricultural University)
- 4:40 ***Sea Level Rise Exposure Assessment at Major East Coast Port Container Terminals*** Thomas Allen (Old Dominion University), George McLeod (Old Dominion University), Sheila Hutt (Old Dominion University)
- 5:00 ***Automated Classification of Barrier Island Vegetation and Geomorphology Through Time: Indicators for Resilience*** William Benfield (University of North Carolina at Wilmington), Joanne Halls (University of North Carolina at Wilmington)



**Hazards**

Chair: Ronald Schumann (University of North Texas)

- 4:00 ***Improving Accessibility and Comprehension of Tornado Warnings for the Deaf Community*** Jason Senkbeil (University of Alabama), Kathy Sherman-Morris (Mississippi State University), Darrin Griffin (University of Alabama)
- 4:20 ***Hazard Vulnerability of Supervised Offenders in Coastal Mississippi*** Ashleigh Price (The University of Alabama), David Cochran (University of Southern Mississippi), George Raber (University of Southern Mississippi), Joshua Hill (University of Southern Mississippi)
- 4:40 ***Climate Change Induced Rural Socio-Economic Vulnerability: An Empirical Regional Analysis from Sub-Himalayan West Bengal, India*** Manoranjan Ghosh (Indian Institute of Technology Kharagpur)
- 5:00 ***Older Adults and Risk of Coastal Flooding in Miami-Dade County, Florida*** Anamaria Bukvic (Virginia Tech), Aishwarya Borate (Virginia Tech)
- 5:20 ***Post-Disaster Communalism: Land Use, Ownership, and the Shifting 'Publicness' of Urban Space in Recovery*** Ronald Schumann (University of North Texas), Elyse Zavar (University of North Texas)

**Culture, (Lack of) Community and Activism**

Chair: Stephen Birdsall (University of North Carolina at Chapel Hill)

- 4:00 ***Malign and Murky Currents: Bullying and Assholery*** Stephen Birdsall (University of North Carolina at Chapel Hill)
- 4:20 ***"Y'all Get on the Front Porch with All That Noise": Social Interaction, Community, and Front Porch Space in the Film Friday*** Daniel McGowin (Jacksonville State University)
- 4:40 ***Drones, Activism and the Battle Against Mountaintop Removal Coal Mining*** Aron Massey (West Liberty University)
- 5:00 ***They Will Tear Up My House: Breed Restrictions as a Means of Reinforcing the Spatial Boundaries of Racial Segregation*** Daniel Rose (Winston-Salem State University), Onneya Carter (Winston-Salem State University), Courtney McMillian (Winston-Salem State University)
- 5:20 ***Endangered Amazon: An Indigenous Tribe Fights Back*** Cynthia Simmons (University of Florida), Robert Walker (University of Florida)

## **Special Session: Public Writing and Media Engagement in Geography: Opportunities and Challenges for Engaging Broader Publics**

Organizers: Jordan Brasher and Derek Alderman (University of Tennessee, Knoxville)

Chair: Derek Alderman (University of Tennessee, Knoxville)

Geographers work on a wide variety of topics that have implications for broader publics outside of the academic environment on pressing social, political, economic, and environmental issues. Yet, for a number of reasons, there remains a disconnect between research results and their broader impact and resonance. Interactions with members of the news media can be fraught with disagreement over or misrepresentation of ideas and results. Increasingly, the threat of predatory journalism and the targeting and harassment of scholars doing critical work poses significant risks to public-facing writing and media engagement. Additionally, writing opinion pieces uses valuable time that may not be considered legitimate scholarship by tenure, promotion and hiring committees. Given these circumstances, this panel explores some of the rewards, benefits, risks, opportunities, and challenges associated with doing public-facing writing and engaging with the news media.

4:00     **Panelists:** Risa Palm (Georgia State University), Susan Cutter (University of South Carolina), Emily Fekete (American Association of Geographers), Jordan Brasher (University of Tennessee, Knoxville), Paul McDaniel (Kennesaw State University)

## Undergraduate Student Poster Competition

Sponsored by the SEDAAAG Education Committee

***Coliform Content in the Water in Dilaire, Haiti*** Allison Foster (Auburn University); Faculty Supervisor: Javier Cuevas

***The Geopolitical Implications Surrounding the Spratly and Paracel Islands of the South China Sea*** Andrew Eiswerth (Georgia College & State University); Faculty Supervisor: Chuck Fahrer

***On the Gendering of America's Commemorative Street Names: A Preliminary Spatial Analysis*** Bethany Craig (University of Tennessee, Knoxville); Faculty Supervisor: Derek Alderman

***Examining Resident Vulnerability in Tampa Public Housing*** Conor Krystad (University of South Florida); Faculty Supervisor: Robin Ersing

***Food Deserts in Birmingham, AL: Location, Suitability, and Access to Potential Urban Gardens*** Sarah Grumulaitis (Samford University); Faculty Supervisor: Jonathan Fleming

***Enerhodar: From a Bare Steppe to Powering Eastern Europe*** Polina Prokof'yeva (Concord University); Faculty Supervisor: Shimantini Shome

***Shallow-Water Model Simulations of Barotropic Instability*** Russell James (East Carolina University); Faculty Supervisor: Rosana Ferreira

***A Worker's Safe Haven Transformed to a Hipster's Paradise: A Study of Gentrification in Historic South End*** Maggie-Jean Cook (Concord University); Faculty Supervisor: Shimantini Shome

***The Discourse of a "Christian Nation" and the Creation of Sacred Space*** Cody Perkins (Concord University); Faculty Supervisor: Shimantini Shome

***Spatial Patterns of Voter Turnout Within the Appalachian Region*** Taylor Carter (Concord University); Faculty Supervisor: Thomas Saladyga

***Fecal Coliform Contamination in the Brush Creek Watershed, West Virginia*** Sophie Klein (Concord University); Faculty Supervisor: Thomas Saladyga

***Wild Taro on the Cahaba River*** Nathan Scholtens (Samford University); Faculty Supervisor: Jonathon Fleming

***Solar Energy: An Assessment of Alternative Energy Potential at Samford University*** Davis Ebbert (Samford University); Faculty Supervisor: Jonathan Fleming

Monday

November 25

8:00am - 10:00am

PAPER SESSION

DeRosset

**Special Session: The Continued Relevance of Geographies of the South**

Sponsored by the Study of the American South Specialty Group (SASSG)

Organizers: Ronnie Schuman (University of North Texas); Matt Cook (Eastern Michigan University)  
Chair: Derek Alderman (University of Tennessee, Knoxville)

- 8:00     ***The State of North Carolina: At the Turn of the Century, in the Current Era, and Looking Forward***     John Robards (Brunswick Community College)
- 8:20     ***Southern Black Spatialities and the Ethical Possibilities of Geography***     LaToya Eaves (Middle Tennessee State University)
- 8:40     ***Developing a Region: Assembling the North Carolina Core***     Jonathan Lepofsky (University of North Carolina at Chapel Hill)
- 9:00     ***The Power Behind the Process: A Mixed-Method Approach Examining Gentrification in Charlotte, NC***     Joe Howarth (University of North Carolina at Charlotte), Daniel Yonto (Georgia Southern University)
- 9:20     ***The Politics of Picturing Black Communities: On the Visual Activism of SNCC Photography***     Derek Alderman (University of Tennessee, Knoxville), Jordan Brasher (University of Tennessee, Knoxville), Josh Inwood (Penn State University)

PAPER SESSION

McRae

## Geographies of Food and Food Insecurity

Chair: Maria Fadiman (Florida Atlantic University/National Geographic)

- 8:00 ***Modeling Profitability in the Jamaican Coffee Industry*** Mario Mighty (University of North Alabama), Gabriel Granco (California State Polytechnic University, Pomona)
- 8:20 ***The Tuscaroras' Political Plants: Distributed Agency Among Native American Artisans in Robeson County, North Carolina*** Sara Maxwell (University of North Carolina at Chapel Hill)
- 8:40 ***Christianity and the US Food Movement*** Edward Davis (Emory & Henry College)
- 9:00 ***Varying Indicators and Semantic Ambiguities Stemming from the Agronomic Origins of Definitions of Viticultural Terroir*** Philip Whalen (Coastal Carolina University)
- 9:20 ***Chili, Cheese and Popcorn: Globalization and Tradition in Bhutan*** Maria Fadiman (Florida Atlantic University/National Geographic)

PAPER SESSION

Dudley

## Environment and Climate Applications

Chair: Chris Fuhrmann (Mississippi State University)

- 8:00 ***Impact of Growing Season Climate Anomalies on Crop Yields in the Southeastern United States*** Montana Eck (University of North Carolina at Chapel Hill)
- 8:20 ***Regional Differences in the Spatial Patterns of North Atlantic Tropical Cyclone Rainbands Through Landfall*** Stephanie Zick (Virginia Tech), Jessica Kirkland (Virginia Tech)
- 8:40 ***A Tale of Two Species: Black-tailed and White-tailed Prairie Dog Biogeography Through Time*** April Bledsoe (East Tennessee State University), T. Joyner (East Tennessee State University), Ingrid Luffman (East Tennessee State University), Jim Mead (The Mammoth Site)
- 9:00 ***CoCoRaHS in the Bahamas: What We Learned from a Years' Worth of Rain (and More) on San Salvador Island*** Chris Fuhrmann (Mississippi State University), Christana Landress (Mississippi State University), Kimberly Wood (Mississippi State University), John Rodgers (Mississippi State University)

**Environment, Health and Well-being – Session 1**

Chair: Eric Delmelle (University of North Carolina at Charlotte)

- 8:00     ***Hospital Surge Capacity for an Influenza Pandemic in the Triangle Region of North Carolina***     Rachel Woodul (University of North Carolina at Chapel Hill), Paul Delamater (University of North Carolina at Chapel Hill), Mike Emch (University of North Carolina at Chapel Hill)
- 8:20     ***Environmental Exposure to Air Pollution and School Performance in TN***     Anzhelika Antipova (University of Memphis)
- 8:40     ***Urban Water Infrastructure and Green Gentrification: Disinvestment and Investment in Atlanta's Waterscape***     Richard Milligan (Georgia State University), Na'Taki Osborne Jelks (Spelman College), Tyler McCreary (Florida State University)
- 9:00     ***Resident Knowledge, Attitudes, and Practices Regarding Dengue, Chikungunya, and Zika in Cali, Colombia***     Michael Desjardins (University of North Carolina at Charlotte), Carbonell Dayana (Universidad Libre), Angela Victoria (Universidad Icesi), Diana Davalos (Universidad Icesi), Irene Casas (Louisiana Tech University), Eric Delmelle (University of North Carolina at Charlotte)
- 9:20     ***A Second-Phase Sampling Scheme to Improve the Estimation of Arsenic in Private Well Water Across Gaston County, NC***     Eric Delmelle (University of North Carolina at Charlotte), Claudio Owusu (University of North Carolina at Charlotte), Samantha Dye (Gaston County Department of Health and Human Services)

## Special Session: Floods, Floodplains, and Fluvial Processes – Session 1

Organizers: Yin-Hsuen Chen (University of Florida); Sarah Praskievicz (University of North Carolina at Greensboro); Joann Mossa (University of Florida)

Chairs: Sarah Praskievicz, (University of North Carolina at Greensboro), Joann Mossa (University of Florida) Yin-Hsuen Chen (University of Florida)

8:00 ***Extreme Floods on The Middle Tennessee River*** Ray Lombardi (University of Alabama), Lisa Davis (University of Alabama)

8:20 ***Recruitment of Large Woody Debris to Great Smoky Mountains National Park Streams Following the 2016 Chimney Tops 2 Wildfire*** Sarah Praskievicz (University of North Carolina at Greensboro)

8:40 ***Impacts of a Large Flood (~1,000 yr RI) on Woody Debris Loads in the North Fork River Basin, Missouri, USA*** Derek Martin (Appalachian State University), Robert Pavlowsky (Missouri State University), Jacob Bendix (Syracuse University), Toby Dogwiler (Missouri State University), Joshua Hess (Missouri State University)

9:00 ***Composition and Architecture of Urban Streambank Regoliths in the North Buffalo Creek Watershed, Greensboro, North Carolina*** Dan Royall (University of North Carolina at Greensboro)

## Applications of Geospatial Techniques and Technologies

Chair: T. David Jensen (Virginia Tech)

8:00 ***Using Remotely Sensed Imagery to Examine Changing Urban Land Cover Across Time and Topography: A Study of Nepal's Kathmandu Valley*** Rajesh Sigdel (University of North Carolina at Greensboro)

8:20 ***Land Use Land Cover Change Across Bangladesh*** Mohammad Hassan (University of Florida)

8:40 ***Utility of the Wavelet Transform for Multiscale Landscape Analysis*** Jacob Dein (University of Tennessee, Knoxville)

9:00 ***Applying LUR Model to Estimate Spatial Variation of PM<sub>2.5</sub> in the Greater Bay Area, China*** Lingling Chen (Georgia Southern University), Wei Tu (Georgia Southern University), Zhifeng Wu (Guangzhou University)

9:20 ***Significant Interannual Declines of St. Lawrence Island Landfast Ice Cover*** David Jensen (Virginia Tech), Lynn Resler (Virginia Tech)

Monday

November 25

10:00am - 12:00pm

PAPER SESSION

Dudley

**Special Session: New Perspectives in Economic Geography**

Organizer and Chair: Ron Kalafsky (University of Tennessee, Knoxville)

- 10:00 ***Revisiting “Borrowed Size” and Examining the Exports of Smaller Southern MSAs*** Ronald Kalafsky (University of Tennessee, Knoxville)
- 10:20 ***Brexit and Global Regulatory and Trade Shifts for Financial Services*** Sharon Cobb (University of North Florida)
- 10:40 ***Which Comes First, Jobs or People? Evaluating Changes in the Jobs/Population Relationships in U.S. Metropolitan Areas*** Jonathan Kozar (Marshall University), William Graves (University of North Carolina at Charlotte)
- 11:00 ***The Economic Landscape of the Farm Machinery Industry Since 2016*** Dawn Drake (Missouri Western State University)
- 11:20 ***Space, Place, and Cost of Living in North Carolina*** Harrison Campbell (University of North Carolina at Charlotte), Ryan James (University of Texas-San Antonio)

PAPER SESSION

Skinner

**Special Session: Floods, Floodplains, and Fluvial Processes – Session 2**

Organizers: Yin-Hsuen Chen (University of Florida); Sarah Praskievicz (University of North Carolina at Greensboro); Joann Mossa (University of Florida)

Chair: Joann Mossa and Yin-Hsuen Chen (University of Florida)

- 10:00 ***Point Bar Changes on The Upper Apalachicola River, Florida Since the Cessation of Dredging*** Yin-Hsuen Chen (University of Florida), Joann Mossa (University of Florida)
- 10:20 ***Complex Geomorphic Responses to Rising Sea Level in North Carolina*** Jonathan Phillips (University of Kentucky)



10:40 ***Is There Sufficient Time to Take Action After Flood Warnings? A Retrospective Look at Historic Floods in the Southeastern U.S.*** Amobichukwu Amanambu (University of Florida), Joann Mossa (University of Florida)

11:00 ***Erosion and River Morphology at Three Bluffs of Varying Lithology, Apalachicola River, Florida*** Joann Mossa (University of Florida), Yin-Hsuen Chen (University of Florida)

PAPER SESSION

Latimer

**Environment, Health and Well-being – Session 2**

Chair: Tessa Farthing (Miami University)

10:00 ***Opioid Crisis: Investigate the Prescribing Patterns*** Jian Chen (University of North Alabama), Raju Gottumukkala (University of Louisiana at Lafayette)

10:20 ***Defining Health Access for Undocumented Populations: A Case Study in Athens, Georgia*** Aileen Nicolas (University of Georgia)

10:40 ***Cancer Prevalent in Alabama and its Relationship to Social Indicators and Proximity to Environmental Conditions: A Geospatial Analysis*** Ram Alagan (Alabama State University), Seela Aladuwaka (Alabama State University)

11:00 ***Increasing Metropolitan Population Well-Being with Access to Green-Blue Areas*** Aynaz Lotfata (Miami University)

11:20 ***Effects of Residential Proximity to Agricultural Areas on the Risk of Breast Cancer in the Southern United States*** Tessa Farthing (Miami University), Aynaz Lotfata (Miami University)

PAPER SESSION

DeRosset

**Special Session: Applications in Dendrochronology**

Organizers: Laura Smith (University of Tennessee, Knoxville); Savannah Collins-Key (University of Tennessee, Knoxville); Clay Tucker (Louisiana State University)

Chair: Clay Tucker (Louisiana State University)

10:00 ***On the Value of Dendroarchaeological Data to Understanding Localized Drought, A Case Study Using Tree-Ring Chronologies from Rebel's Rest, Sewanee, Tennessee, USA*** Maegen Rochner (University of Louisville), Scott Torreano (University of the South), Patrick Vestal (University of the South)

10:20 ***Teaching Tree-Ring Science to Middle- and High-School Students*** Clay Tucker (Louisiana State University), Jill Trepanier (Louisiana State University), Pamela Blanchard (Louisiana State University), Mark Schafer (Louisiana State University), James Jordan

(Louisiana State University), John Nyman (Louisiana State University), Edward Bush (Louisiana State University)

- 10:40 ***Tree-Ring Dating of Possible Chickasaw Sites in Tupelo Mississippi*** Tommy Patterson (University of Southern Mississippi), Raymond Doherty (University of Mississippi), Grant Harley (University of Idaho), David Holt (University of Southern Mississippi)
- 11:00 ***Soil Charcoal Evidence of Long-Term Fire and Forest History from Mesic Forests of Great Smoky Mountains National Park, Tennessee, U.S.A.*** Sally Horn (University of Tennessee, Knoxville), Mathew Boehm (University of Tennessee, Knoxville), Christopher Underwood (University of Wisconsin-Platteville)
- 11:20 ***The Ingall's Shipyard Tree: History on Display*** David Holt (University of Southern Mississippi), Tom Rishell (University of Southern Mississippi), Thomas Patterson (University of Southern Mississippi), Ian Stewart (University of Southern Mississippi), Alyssa Crowell (University of Southern Mississippi), Christina Highsmith (University of Southern Mississippi)
- 11:40 ***A Tree-Ring Record of Historical Fire in Longleaf Pine of the Piedmont, North Carolina, USA*** Monica Rother (University of North Carolina at Wilmington), Thomas Patterson (University of Southern Mississippi), Paul Knapp (University of North Carolina at Greensboro), Nell Allen (North Carolina Zoo)

#### PAPER SESSION

McRae

### Environment and Energy

Chair: Audrey Smith (University of Florida)

- 10:00 ***A Framework for the Spatial Analysis of Energy Poverty*** Joshua Randall (North Carolina State University)
- 10:20 ***The Value of Reforestation: A Case Study of Local Ecological Knowledge in the Philippines*** Dominique Cagalan (Coastal Carolina University)
- 10:40 ***Urban Forests for Flood Reduction*** Heng Wan (Virginia Tech), Daniel McLaughlin (Virginia Tech), Yang Shao (Virginia Tech), Brian Eerden (The Nature Conservancy)
- 11:00 ***Golf Courses, Condos, Conservation Easements and Capitalism: An Investigation into Contemporary Land Use Patterns on Former Horry County (SC) Lowcountry Plantations*** Lynn Phillips (University of Kentucky), Benjamin Burroughs (Coastal Carolina University)
- 11:20 ***Large-scale Land Acquisitions and Ecosystem Services: Impacts on Natural Woodlands and Energy Security in Ethiopia*** Audrey Smith (University of Florida), Jane Southworth (University of Florida), Reza Khatami (University of Florida), Arun Agrawal (University of Michigan), Dan Brown (University of Washington), Carly Muir (University of Florida)

**Graduate Honors I**

Organizer: SEDAAG Honors Committee

Chair: Matt Cook (Eastern Michigan University)

- 10:00    ***Generating Population Grid in the CONUS by Disaggregating Census Population with Microsoft Building Footprints***    Xiao Huang (University of South Carolina)
- 10:20    ***Making Orange Green? A Critical Carbon Footprint Approximation of Tennessee Football Gameday Tourism***    J.A. Cooper (University of Tennessee, Knoxville)
- 10:40    ***A View from Above: Alternative Perspectives of Smallholder Farming and Agrobiodiversity Conservation in Northern Ecuador***    Chris Hair (University of Southern Mississippi)
- 11:00    ***Queen City Gardens: A GIS-Based Approach to Locating Urban Community Gardens in Charlotte, North Carolina Food Deserts***    Robert Gooljar (University of North Carolina at Charlotte)
- 11:20    ***At the Confluence of Community Identity and Revitalization***    Joshua Merced (University of North Carolina at Greensboro)
- 11:40    ***The Geography of Entrepreneurship by U.S. County: The Key Predictors***    Nichole Bignall (University of North Carolina-Greensboro)

## Human Geography and Geographic Education

***Modeling the Problem: Food Deserts in Mississippi*** Ashley Chasez (University of Southern Mississippi)

***Bicycle Parking Assessment for University Campuses: A Case Study of Western Michigan University*** Gregory Carlton (University of North Carolina at Greensboro)

***The Atlantic Coast Pipeline: Risks and Rewards for North Carolina*** Rachel Williams (University of North Carolina at Pembroke), Trevor Jacobs (University of North Carolina at Pembroke)

***Summarizing the 2019 AAG Conference Presentations Using Keyword Network Analysis*** Youngho Lee (Kyung Hee University & University of West Georgia), Yubin Lee (Kyung Hee University & University of West Georgia), Ana Stanescu (University of West Georgia), Jeong Seong (University of West Georgia)

***A Spatial Examination of Weather-Related Motor Vehicle Accidents in North Carolina*** Hunter Spitzer (University of North Carolina at Chapel Hill)

***The Proportionality of High Interest Loans to Local Economies in Alabama*** Glori Whitaker Hart (Jacksonville State University)

***Decoupling and Political Culture*** Jenny Berggren (University of North Carolina at Greensboro)

***Emergent Technologies for Historic Preservation and Cultural Tourism: Using Artificial Intelligence to Predict Human Engagement with Historic Sites*** Christa Smith (Clemson University)

***Holiday-Inspired Agritourism and Placemaking in the American South: The Enduring Perceptions of Place Created by Halloween Pumpkins, Christmas Trees, and Thanksgiving Turkey Legs*** Alana Seaman (University of North Carolina at Wilmington), Alexa Rode (University of North Carolina at Wilmington), Alexia Franzidis (University of North Carolina at Wilmington)

***More About the Spatial Distribution of Same-Sex Households in The United States*** Joyce Clapp (University of North Carolina at Greensboro)

***Creating a Livability Index: A Case Study on Wilmington and Asheville, North Carolina*** Christian Walters (University of North Carolina at Greensboro), Avery Catherwood (University of North Carolina at Greensboro)

***Understanding Small Town Sprawl Using GIS*** Priscilla Lema (University of North Alabama)

***The Cohort Made Me Do It: Cohort Activities and the Retention of Underrepresented Students in Geography*** Heidi Lannon (Santa Fe College), Corene Matyas (University of Florida), Katie Stofer (University of Florida), Jasmeet Judge (University of Florida), Brandan Lanman (Orlando Science Center)

***Top Ten North Carolina Counties by Median Household Income and the Perceptions of Wealth*** Meagan Boyter (University of North Carolina at Greensboro)

***Spatial-Temporal Analysis of Crime in San Francisco, CA*** Stephen Osero (University of North Alabama), Sunhui Sim (University of North Alabama)

***Georgia Image Atlas - Volume 1: Impact of Urbanization*** Jeong Seong (University of West Georgia)

***Why Poverty Matters? The Relationship with Socio-Economic Variables and the Effects of Health: Case Study NC*** Mehrnaz Khademian (University of North Carolina at Greensboro)

***The Geography of Perceptions of Campus Safety at Shippensburg University*** Samantha Richards (Shippensburg University)

***Representation of Bicycles and Bicyclists in the Media: An Analysis of Television Commercials*** Tom Crawford (Virginia Tech), Emily Gregory (Virginia Tech)

***Tracking Food Deserts Along the Transamerica Cycling Route: Northern Tier*** Emily Gregory (Virginia Tech), Stewart Scales (Virginia Tech), Tom Crawford (Virginia Tech)

***Temporal Mapping of Green Book Locations in Richmond, Virginia, 1940 - 1960*** Owen Donovan (University of Mary Washington)

***A Multi-modal Study of Transit in Fredericksburg, VA*** Matthew Lehané (University of Mary Washington)

***Parallel Thinking: Exploring Climate Change in the Geography Classroom*** Karen Kinslow (University of Kentucky)

***Indigenous Cosmologies, Change, and Continuity in 17th Century Native America*** Nathan McMenamin (University of North Carolina at Greensboro)

***Sam Houston State University's e-Scooters Complication and the City of Huntsville*** Aaliyah Douglas (Sam Houston State University), Jade Mehaffie (Sam Houston State University)

Monday

November 25

1:00pm - 3:00pm

PAPER SESSION

DeRosset

**Memory, History and Place**

Chair: Dawn Bowen (University of Mary Washington)

- 1:00     ***Limited Resources and Prioritizing Whiteness: Keeping Slavery on the Margins in the James River Plantation Museum Assemblage***     Stephen Hanna (University of Mary Washington), Amy Potter (Georgia Southern University), Derek Alderman (University of Tennessee, Knoxville), Perry Carter (Texas Tech University), Candace Bright (East Tennessee State University), David Butler (Middle Tennessee State University)
- 1:20     ***A Region of Contrasts: Centering the Enslaved in the Charleston Plantation Museum Assemblage***     Amy Potter (Georgia Southern University), Derek Alderman (University of Tennessee, Knoxville), Candace Bright (Eastern Tennessee State University), David Butler (Middle Tennessee State University), Stephen Hanna (University of Mary Washington), E. Modlin (Norfolk State University)
- 1:40     ***John Cage: Geographer?***     Robert Kruse (West Liberty University)
- 2:00     ***GK Chesterton: Reflections on Journalism and Mediated Encounters of Place***     Jessey Gilley (Lincoln Memorial University)
- 2:20     ***"Our Idyllic Life": Older Adults Reminiscences of Growing up on Aruba***     Dawn Bowen (University of Mary Washington)

PAPER SESSION

Dudley

**Economic Development and Measuring Urban Change**

Chair: Elizabeth Delmelle (University of North Carolina at Charlotte)

- 1:00     ***Using Cell Phone Location Data to Explore Travel Patterns Among Urban and Rural Residents in the Charlotte Region***     Katie Zager (UNC Charlotte Urban Institute)
- 1:20     ***Foreign-Trade Zones and Economic Development in North Carolina: How Location-Specific Development Policy is Related to Spatial Inequality on the County Level***     Jesse Lane (University of North Carolina at Greensboro)
- 1:40     ***Rank-Size Distribution of Urban Areas in Bangladesh***     Pankaj Bajracharya (University of North Carolina at Greensboro), Selima Sultana (University of North Carolina at Greensboro)

- 2:00     ***Quantifying the Relocation of Urban Greyhound Bus Terminals 1935 - 2019***     Jesse Andrews (Oklahoma State University)
- 2:20     ***On the Link between Rail Transit and Spatial Segregation by Income and Race in US Cities***     Elizabeth Delmelle (University of North Carolina at Charlotte), Isabelle Nilsson (University of North Carolina at Charlotte)

PAPER SESSION

Latimer

## **Special Session: Remote Sensing and Social Sensing for Improved Disaster Monitoring**

Organizers: Xiao Huang (University of South Carolina) and Cuizhen (Susan) Wang (University of South Carolina)

Chairs: Xiao Huang (University of South Carolina) and Cuizhen (Susan) Wang (University of South Carolina)

- 1:00     ***Social Media Data Mining in Supporting Rapid Flood Inundation Mapping***     Xiao Huang (University of South Carolina), Cuizhen Wang (University of South Carolina), Zhenlong Li (University of South Carolina)
- 1:20     ***Effects of Hydroelectric Dams on Tropical Forest Dynamics in The Brazilian Amazon***     Samuel Nickerson (University of North Carolina at Charlotte), Gang Chen (University of North Carolina at Charlotte), Kaiguang Zhao (Ohio State University), Tongxi Hu (Ohio State University)
- 1:40     ***Applications and Accuracy Considerations for Aerial Drone Research in Coastal Areas***     Narcisa Pricope (University of North Carolina at Wilmington), Kerry Mapes (University of North Carolina Wilmington), Britton Baxley (University of North Carolina at Wilmington), Kyle Woodward (University of North Carolina at Wilmington)
- 2:00     ***A Healthy Park Needs Healthy Vegetation: The Story of Gorongosa National Park***     Hannah Herrero (University of Tennessee, Knoxville), Jane Southworth (University of Florida)
- 2:20     ***Drone-based 3D Tree Structure Surveying on Earth Dams to Assist Dam Safety Assessment***     Cuizhen Wang (University of South Carolina), Grayson Morgan (University of South Carolina), Michael Hodgson (University of South Carolina), Xiao Huang (University of South Carolina)

## Special Session: Community Participation in Geography and Geoscience

Organizer: Ingrid Luffman (East Tennessee State University)

Chair: Ingrid Luffman (East Tennessee State University)

- 1:00 ***Leveraging Community Scientists and GIScience to Assess Roadside Stream Sedimentation in the US National Forest, North Carolina*** Jacob Hansen (East Tennessee State University), Andrew Brown (Trout Unlimited), Jeffrey Wright (Trout Unlimited), Brady Dodd (United States Forest Service), Ingrid Luffman (East Tennessee State University)
- 1:20 ***Community Science Data Validation Using an IoT Sensor Network*** Chelsie Perkins (East Tennessee State University), Timothy Muncy (East Tennessee State University), Daniel Connors (East Tennessee State University), Ingrid Luffman (East Tennessee State University)
- 1:40 ***Mapping Landlords and Blight in Rural Georgia*** Jerry Shannon (University of Georgia), Chase Polak (University of Georgia), Kim Skobba (University of Georgia), Jermaine Durham (University of Georgia)
- 2:00 ***Digital Storytelling as Community-Based Learning Tool*** David Marshall (Elon University)
- 2:20 ***Community Science: History, Best Practices, and Applications*** Ingrid Luffman (East Tennessee State University)

## Special Session: Involving Undergraduates in Geoscience Research

Organizer and Moderator: Sally Horn (University of Tennessee, Knoxville)

The idea that undergraduate students could and should carry out research as part of work toward bachelor's degrees is not new in geography or in academia in general. As early as 1969, MIT established an undergraduate research opportunity program to facilitate student involvement. Similar programs now exist in many universities. Some primarily serve as clearinghouses of information on opportunities, while others provide significant funding to undergraduate students and mentors. The National Science Foundation is a major supporter of undergraduate research through REU site grants and supplements, standard grants to researchers, including dissertation improvement grants that can include funding for undergraduates, and through initiatives such as the NSF Geopaths program, which funds projects to increase student recruitment in physical geography and other areas of the geosciences.

Despite funding opportunities and encouragement, the number of undergraduate geography majors who obtain research experience is low at many universities. Would geography and geographers benefit by increasing undergraduate involvement in research? This panel features seven geographers from five universities in the southeastern U.S. who regularly involve undergraduates in field and



laboratory research in physical geography, climatology, and biogeography. Panelists will share ways in which they have involved undergraduates in research, the benefits they and their students have received, and strategies they have used to manage and fund undergraduate research including through grants from NSF and other sources. Audience members, including current undergraduate students, will be encouraged to share their perspectives and tips for success.

1:00 **Panelists:** Corene Matyas (University of Florida), Maegen Rochner (University of Louisville), Douglas Gamble (University of North Carolina at Wilmington), Lynn Resler, (Virginia Tech), Chad Lane (University of North Carolina at Wilmington), John Kupfer (University of South Carolina)

## PAPER SESSION

Bellamy

### Graduate Honors II

Organizer: SEDAAG Honors Committee

Chair: Matt Cook (Eastern Michigan University)

1:00 ***Analyzing Winter Weather and Short-Term Climate Trends of the Ski Resorts in North Carolina Through the Use of Community Collaborative Rain, Hail & Snow Network (CoCoRaHS) Stations*** Danika Mosher (East Tennessee State University)

1:20 ***Reading the Green Book: The Intersection of Black Geographies and Critical GIS*** Ethan Bottone (University of Tennessee, Knoxville)

1:40 ***Simulation of Development Alternatives Using Random Forest, Cellular Automata, and GIS for Sustainable Urban Planning*** Firoozeh Karimi (University of North Carolina-Greensboro)

2:00 ***Contesting the Confederacy: Mobile Memory and the Making of Black Geographies in Brazil*** Jordan Brasher (University of Tennessee, Knoxville)

2:20 ***Dynamics of Spatial Neighborhood Changes From 2000-2016: A Case Study from a Lesser Known Immigrants Gateway City*** Nabeela Farhat (University of North Carolina at Greensboro)

2:40 ***Evaluating Evidence of Past Flood Events in Tree-ring Features of Riparian Oak, Pearl River Wildlife Management Area, Louisiana*** Savannah Collins-Key (University of Tennessee, Knoxville)

**Human-Environment Interactions and Geospatial Methods**

***Application of Factor Analysis for Primary Election Data*** Breonna Roden (University of North Alabama), Matthew Balentine (University of North Alabama)

***Using GIS to Enhance Historic Preservation: From Mapping Building Construction Dates to Mapping Cultural Relationships*** Micah Arnholt (Columbus State University)

***Remotely Sensed Lithologic Mapping Using Image Enhancement Techniques in Conjunction with Classification Algorithms*** James Matlock (University of North Carolina at Wilmington), Eman Ghoneim (University of North Carolina at Wilmington)

***Developing Data Services and Applications for a Tennessee Climate Office*** William Tollefson (East Tennessee State University), Andrew Joyner (East Tennessee State University)

***Monitoring of Vegetation Impact Using High Spatial Resolution Remote Sensing Data: Part II*** Min Kook Kim (Marshall University)

***Mapping the Columbia Icefield Using Machine Learning Algorithms*** Adjoa Intsiful (Mississippi State University), Shrinidhi Ambinakudige (Mississippi State University)

***Evaluation of Urban Heat Island Effect Using Satellite Derived Estimates of Impervious Areas and Land Surface Temperature*** Destiny Crockett (Mississippi State University), Ranjani Kulawardhana (Jackson State University), Paul Tchounwou (Jackson State University), Shrinidhi Ambinakudige (Mississippi State University)

***Automated 2D Floorplan Extraction From Point Clouds and Interior Routing*** Alec Biles (University of Mary Washington)

***How Industrial Factory Farming Advances Climate Change and Deforestation*** Avery Catherwood (University of North Carolina at Greensboro)

***Examining the Influence of Outdoor Recreation on Man-Made Wildfire Size in the Southern Rocky Mountains*** Adam Benefield (University of North Alabama)

***Investigating the Effectiveness of North Carolina's Flood Policies: Twenty Years of Hurricanes on the Neuse River*** Patrick Brackett (University of North Carolina at Greensboro), Rajesh Sigdel (University of North Carolina at Greensboro), Dr. Sarah Praskievicz (University of North Carolina at Greensboro)

***Preparing For, Responding To, and Mitigating Compound Coastal Water Hazards for Resilient Rural Communities*** Scott Curtis (East Carolina University), Jamie Kruse (East Carolina University), Anuradha Mukherji (East Carolina University), Ausmita Ghosh (East Carolina University), Jennifer Helgeson (National Institute of Standards and Technology), Bryant Buck (Mid-East Commission)

***The Influence of Sand Fence Configuration on Sand Accumulation and Wind Flow***

Marley Allen (University of North Carolina at Greensboro), Phillip Schmutz (University of West Florida)

***Urban Green Space Accessibility and Environmental Justice: A GIS-Based Analysis in the City of Atlanta***

Mastano Dzimbiri (Miami University), Aynaz Lotfata (Miami University)

***Social Vulnerability in the Coastal Region of Bangladesh: An Investigation of Social Vulnerability Index and Scalar Change Effects***

Yasin Wahid Rabby (University of Tennessee, Knoxville), Md Belal Hossain (Oklahoma State University), Mahbub Hasan (University of Twente)

***Examining Spatial Inequalities of Green Spaces in Coastal Georgia***

Chiamaka Chimah

(Georgia Southern University)

***Road Network Metrics as a Predictor of Aedes Albopictus Invasion in Texas***

Stephanie

Mundis (University of Florida), Liang Mao (University of Florida), Sadie Ryan (University of Florida)

***Environmental Sustainability in Higher Education: A Geographic Perspective***

Kori

Armstrong (University of Southern Mississippi)

***Mapping Social Vulnerability to Floods in Accra, Ghana***

Bless Dupeh (Georgia Southern

University)

***Artisanal Sapphire Mining Expansion Near Ilakaka, Madagascar***

Maram Alrehaili

(University of Florida)

***Spatial Influences in Public Interpretation of Probabilistic Tornado Information***

Kevin

Ash (University of Florida), William Sargent (University of Florida), Sonia Savelli (University of Washington), Susan Joslyn (University of Washington), Chao Qin (University of Washington), Julie Demuth (National Center for Atmospheric Research), Rebecca Morss (National Center for Atmospheric Research)

***Coliform Content in the Water in Dilaire, Haiti***

Allison Foster (Auburn University)

***National Weather Service Use of Narrative to Help Public Understanding of Forecasted Weather***

Stephen Mullens (University of Florida)

Monday

November 25

3:00pm - 5:00pm

PAPER SESSION

McRae

**Community, Ethnicity and Landscape**

Chair: Johnathan Walker (James Madison University)

- 3:00 ***Koreatown Georgia: A Geography of Korean Ethnic Churches Engaged in Community Development in Gwinnett County, Georgia*** William McBrayer (University of North Georgia)
- 3:20 ***The Borders Closing in: Florida State University's Encroachment on Frenchtown in Tallahassee, Florida*** Douglas Allen (Middle Tennessee State University), Allison Bloomer (Florida State University)
- 3:40 ***From Sandlot to Stadium: Baseball and Football Stadiums in the American Landscape*** William Canup (University of North Carolina at Greensboro)
- 4:00 ***Asian Immigrant Community in the South: New Suburban Immigrant Community Model*** Jaeho Ko (University of North Carolina at Charlotte)
- 4:20 ***Kurdish Communities in the Southeastern US*** Johnathan Walker (James Madison University)

PAPER SESSION

Latimer

**Coastal Processes: Dunes, Mangroves and Conchs**

Chair: Jordan Cissell (University of Alabama)

- 3:00 ***Processes Influencing Back Barrier Erosion at Cumberland Island National Seashore*** Jacob McDonald (University of North Georgia)
- 3:20 ***Mapping and Modeling Mangrove Damages from Hurricane Irma in South Florida*** Caiyun Zhang (Florida Atlantic University)
- 3:40 ***Impact of Restoration Design Complexity on Coastal Dune Growth*** Phillip Schmutz (University of West Florida), Jenna Throckmorton (University of West Florida)
- 4:00 ***Factors Motivating and Enabling Conch Poaching in Belize's Marine Protected Areas*** Jordan Cissell (University of Alabama), Michael Steinberg (University of Alabama), Aoife Pitts (University of Alabama)

## Special Session: AAG Geography Student Recruitment and Career Resources Workshop

Organizers: Emily Fekete (American Association of Geographers) and Coline Dony (American Association of Geographers)

AAG President David Kaplan recently said there is a pervasive need among geography departments to recruit students into geography programs. Often students do not declare a geography major until after it is “discovered” while enrolled, leaving little time to advise and mentor students. A large factor leading to late major declarations is the lack of prior knowledge of geography from a student’s K-12 education. Departments may face challenges in knowing what resources are best to use to encourage students to join their program, and in advising them on career options once students are involved in geography majors. This workshop is meant to address these challenges, thus participants in this workshop will:

1. Familiarize themselves with AAG efforts to bolster K-12 education in the US;
2. Learn about the AP Human Geography program and connecting to AP classrooms as a potential pipeline for recruiting students to geography;
3. Explore AAG and other materials currently available to assist in student recruitment;
4. Gain knowledge of career resources currently available for geography students;
5. Discuss in small groups actionable plans to move forward with their own department recruitment strategies; and
6. Become aware of funding opportunities that can support collaboration with K-12 and geography education research.

3:00 **Workshop Leaders:** Emily Fekete and Coline Dony (American Association of Geographers).

## Geography Teaching, Outreach and Learning Environments

Chair: Corene Matyas (University of Florida)

3:00 ***GEO PROJECT: The Geospatial Education and Outreach Project*** Randall McMillen (Mississippi State University)

3:20 ***Meteorology and Myth Part II: A Fair Candlemas*** Dennis Edgell (University of North Carolina at Pembroke)

3:40 ***Geoapps and Dashboards: Contemporary Technologies for Data Dissemination and Consumption*** Mitchell Ogden (East Tennessee State University)

4:00 ***Impacts of Urban Green Space and Built-Up Environment on Students’ Academic Performance*** Meimei Lin (Georgia Southern University, Armstrong campus)

4:20 ***Students at a 2-Year College Benefit from but Also Encounter Difficulties in Geoscience Research with Faculty at a 4-year University*** Corene Matyas (University of Florida), Kathryn Stofer (University of Florida), Heidi Lannon (Santa Fe College), Jasmeet Judge (University of Florida), Bobby Hom (Santa Fe College), Brandan Lanman (Orlando Science Center)

PAPER SESSION

Skinner

## **Special Session: Multilevel Resilience: Triangulating Relationships Between Resilience and Vulnerability After Disaster**

Organizers: Diamond Holloman (University of North Carolina at Chapel Hill) and Bethany Cutts (North Carolina State University)

Chair: Bethany Cutts (North Carolina State University)

- 3:00     ***Grassroots Community Organizing as Climate Adaptation: Building Post-Hurricane Resilience from the Ground Up***     Diamond Holloman (University of North Carolina at Chapel Hill)
- 3:20     ***Using Citizen Scientists to Study Post-Hurricane Well Water Contamination in North Carolina Environmental Justice Communities***     Andrew George (University of North Carolina at Chapel Hill)
- 3:40     ***Building Research Partnerships to Assess Health Effects of Hurricanes: Creating the Mold Education and Resource Center***     Arbor Quist (University of North Carolina at Chapel Hill)
- 4:00     ***Muck, Debris, or Tree: A Spatial, Temporal Approach to Predicting who Asks for Volunteer Assistance After Disaster and How Quickly Their Needs are Met***  
Byron Ifediora (North Carolina State University), Bethany Cutts (North Carolina State University)

PAPER SESSION

Bellamy

## **Cognition, Perception and Consumption: Undergraduate Research Showcase**

Sponsored by the SEDAAG Education Committee

Organizers: SEDAAG Education Committee

Chair: Jennifer Rahn (Samford University)

- 3:20     ***Video Game Geographies: Fact or Fiction?***     Kaitlin Rayburn (Jacksonville State University)
- 3:40     ***Why Do People Drink Bottled Water? Geographic Patterns of Bottled Water Consumption in Greensboro, North Carolina***     Stephanie Stephens (University of North Carolina at Greensboro) Sarah Praskievicz (University of North Carolina at Greensboro)
- 4:00     ***The World in Color***     Tabitha Rayburn (Jacksonville State University)

## Graduate Honors

**A Viewshed Analysis of Minoan Neopalatial Peak Sanctuaries** Jessica Miller (University of North Carolina at Greensboro)

## Hydrology, Climate, Dendrochronology, Geomorphology and Biogeography

**Modification of Flood Patterns by Anthropogenic Topography, Middle Atchafalaya River Basin, Louisiana** Ali Alruzuq (University of Florida)

**Characterizing Urban Stream Erosion and Deposition Over Time Using LiDAR Analyses at Second Creek, Knoxville, Tennessee** Blentlinger Luke (University of Tennessee, Knoxville), Emily Craig (University of Tennessee, Knoxville), Yingkui Li (University of Tennessee, Knoxville), Kristina Cairns (University of Tennessee, Knoxville), Nathan McKinney (University of Tennessee, Knoxville), Logan Gross (University of Tennessee, Knoxville), Robert Washington-Allen (University of Tennessee, Knoxville)

**Point Counting of Microscopic Charcoal in Sediment Cores from Two Central American Lakes** Wesleigh Wright (University of Tennessee, Knoxville), Sally Horn (University of Tennessee, Knoxville), Jacob Cecil (University of Tennessee, Knoxville), Cathy Smith (University of Edinburgh), Mathew Boehm (University of Tennessee, Knoxville), Martin Arford (Saginaw Valley State University), Matthew Kerr (University of Tennessee, Knoxville)

**A Climatology of Indian Summer Events Across the Northeast United States, 1950-2015** Darren Parnell (Salisbury University), Craig Ramseyer (Virginia Tech)

**Potential Habitat and Recolonization Pathways for the North American Cougar (*Puma Concolor Cougaur*) in Tennessee** Jacob Cecil (University of Tennessee, Knoxville)

**Changes in Southeastern USA Summer Precipitation Event Types Using Instrumental (1940–2018) and Tree-Ring (1790–2018) Data** Tyler Mitchell (University of North Carolina at Greensboro)

**33 Years of Publishing in Geomorphology** Scott Lecce (East Carolina University), Richard Marston (Kansas State University), Takashi Oguchi (University of Tokyo), Markus Stoffel (University of Geneva)

**Successional Dynamics of an Appalachian Pin Oak (*Quercus palustris* Münchh.) Swamp Forest** John Cline (University of North Carolina at Greensboro), Tom Saladyga (Concord University), Jim Vanderhorst (West Virginia Division of Natural Resources)

**Landscape-Scale Tree Growth Dynamics at Three Southern West Virginia National Parks** Tom Saladyga (Concord University), Stockton Maxwell (Radford University)

***Tree Ring Chronology Development and Analysis in the Tennessee Valley Region***

Erica Quin (University of Tennessee, Knoxville), Laura Smith (University of Tennessee, Knoxville)

***Springtime Rainfall Variability in the Gulf Coast, USA, 1949-2018***

Cooper Corey (University of West Florida), Cody Goins (University of West Florida), Samuel Parmer (University of West Florida), Jason Ortegren (University of West Florida), Anthony Okafor (University of West Florida)

***Inclement Weather Impacts on Surface and Groundwater Quality in Sinking Creek, Watauga Watershed, East Tennessee***

Porcha McCurdy (East Tennessee State University), Ingrid Luffman (East Tennessee State University)

***A Case Study Approach to the Sensitivity of Modeled Surface Energy Budget During Rain-Enhanced Snowmelt Under Different Atmospheric Conditions in Mid-Atlantic United States***

Lori Wachowicz (University of Georgia)

***Will the Extreme Rain Fall Mainly on the Plains? Rainfall Scenarios Under Climate Change for Oklahoma and Texas***

Esther Mullens (University of Florida), Renee McPherson (University of Oklahoma)

***The Direct and Indirect Effects of Site Suitability on Eastern Monarch Butterfly Migratory Populations***

Karen Kesler (University of North Carolina at Greensboro)

***Structural and Geospatial Analysis for Discovering New Geothermal Fields Along the Gulf Of Suez Rift, Egypt.***

Amr Fahil (University of North Carolina at Wilmington), Eman Ghoneim (University of North Carolina at Wilmington), Mohamed Noweir (Tanta University), Alaa Masoud (Tanta University)

***Climate Variability from 1980 to 2018 and its Effect on Wind Directions, Wind Speeds, and Vog Potential in Hawaii***

Monica Ayala (East Tennessee State University), Andrew Joyner (East Tennessee State University), Chris Gregg (East Tennessee State University), William Tollefson (East Tennessee State University)

***Grassland-Forest Ecotone Dynamics on Whitetop Mountain, A Southern Appalachian Grass Bald in Mt. Rogers National Recreation Area, Southwestern Virginia***

Ryley Harris (Virginia Tech), Lisa Kennedy (Virginia Tech), Thomas Pingel (Virginia Tech)

***Incorporation of WorldView Satellite Imagery and Fixed Wing UAS to Understand the Geomorphological Response of Hurricane Florence on Masonboro Island, NC.***

Jacob Todd (University of North Carolina at Wilmington), Eman Ghoneim (University of North Carolina at Wilmington), Joseph Long (University of North Carolina at Wilmington), Lynn Leonard (University of North Carolina at Wilmington), David Wells (University of North Carolina at Wilmington)

***Assessing Changes in Cloud Dynamics in the Luquillo Tropical Montane Cloud Forest Using NASA Earth Observations and In Situ Measurements Following Catastrophic***

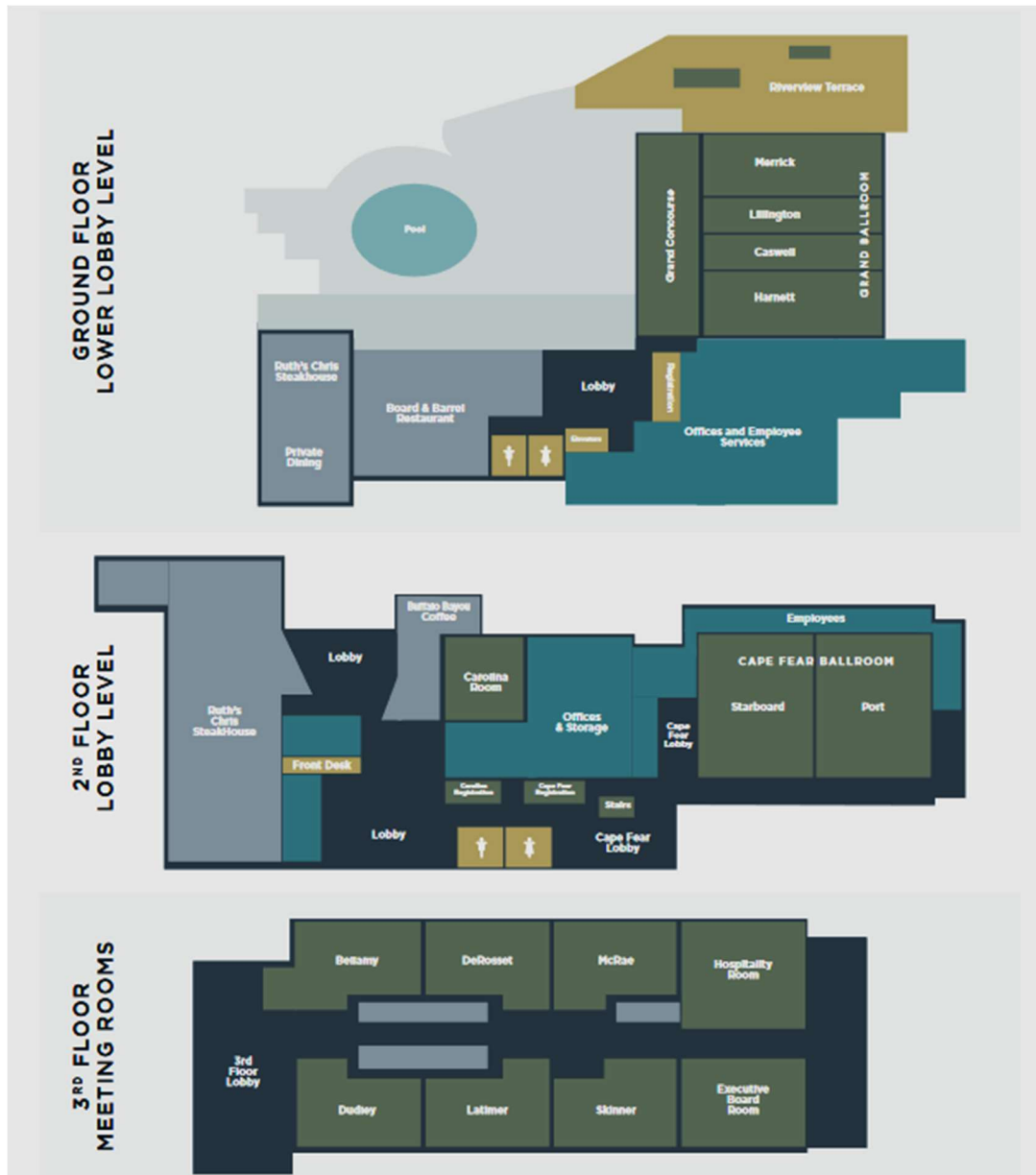


***Defoliation from Hurricane Maria in Puerto Rico*** Flavia Moraes (University of Georgia and NASA DEVELOP National Program), Justin Bucher (University of Georgia and NASA DEVELOP National Program), Andrew Walz (Clark University and NASA DEVELOP National Program)

***Seasonal Climate Information in the U.S. Pacific Northwest Recorded in Tree-Ring Blue Intensity*** Taylor O'Brien (University of North Carolina at Chapel Hill), Erika Wise (University of North Carolina at Chapel Hill)

***Determining Stand Age-structure of Longleaf Pine Savannas of North Carolina, USA*** Jenna Seagle (University of North Carolina at Wilmington), Monica Rother (University of North Carolina at Wilmington)

# VENUE FLOOR PLANS



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**NOTES:**