2019 AAG Presentations from UNC Charlotte Geography and Earth Sciences

4/3/2019 (Wednesday)
"Autobiogeographies:" Transnational Geographers in the United States
Day: 4/3/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Wilson C, Marriott, Mezzanine Level
Panelist: Heather Smith University of North Carolina at Charlotte
"Autobiogeographies:" Transnational Geographers in the United States

Public Transit: Social and Economic Opportunities and Consequences I
Day: 4/3/2019
Start / End Time: 12:40 PM / 2:20 PM
Room: Blue Room, Omni, Lobby Level
Maryam Khabazi*, University of North Carolina - Charlotte, Isabelle Nilsson, University of North Carolina at Charlotte, Light Rail Investment and Its Impact on Commuting Patterns

Public Transit: Social and Economic Opportunities and Consequences II
Day: 4/3/2019
Start / End Time: 2:35 PM / 4:15 PM
Room: Blue Room, Omni, Lobby Level
Isabelle Nilsson*, University of North Carolina - Charlotte, Elizabeth Delmelle, University of North Carolina - Charlotte, The impact of new rail transit stations on residential location choice and sorting
Elizabeth Delmelle*, University of North Carolina at Charlotte, Isabelle Nilsson, University of North Carolina at Charlotte, Johanna Claire Schuch, University of North Carolina at Charlotte, Who’s moving in? A longitudinal study of mortgage lending applications in rail transit neighborhoods

Spatiotemporal disease mapping and analysis
Day: 4/3/2019
Start / End Time: 2:35 PM / 4:15 PM
Room: Marshall South, Marriott, Mezzanine Level
Daniel Yonto*, University of North Carolina - Charlotte, Hongwei Jiang, Research Institute for Humanity and Nature, Kyoto, Japan, Lin Lin, Xi’an Jiaotong – Liverpool University, Preventing human liver fluke transmission in Southeast Asia: A spatiotemporal analyses from a rural community in the Lao People’s Democratic Republic
Spatiotemporal disease mapping and analysis  
**Day:** 4/3/2019  
**Start / End Time:** 2:35 PM / 4:15 PM  
**Room:** Marshall South, Marriott, Mezzanine Level  
Eric Delmelle*, University of North Carolina at Charlotte, Claudio Owusu, University of North Carolina at Charlotte, Michael Desjardins, University of North Carolina at Charlotte, Alexander Hohl, Uttica College, Paul Jung, University of North Carolina at Charlotte, Yu Lan, University of North Carolina at Charlotte, Coline Dony, American Association of Geographers, *Uncertainty in Geographical Analysis: Current Challenges and Future Opportunities*

Rail Landscapes  
**Day:** 4/3/2019  
**Start / End Time:** 4:30 PM / 6:10 PM  
**Room:** Blue Room, Omni, Lobby Level  
Tonderai Mushipe*, University of North Carolina at Charlotte, Delmelle Elizabeth, University of North Carolina at Charlotte, Isabelle Nilsson, University of North Carolina at Charlotte, Johanna Claire Schuch, University of North Carolina at Charlotte, *Impact of Light-Rail Transit on Neighborhood Composition: Preliminary Study of Charlotte, NC*

Making the Better Teacher: Pre-Service Training and Current Teachers' Professional Development  
**Day:** 4/3/2019  
**Start / End Time:** 4:30 PM / 6:10 PM  
**Room:** Johnson, Marriott, Mezzanine Level  
Larianne Collins*, University of North Carolina at Charlotte, *Achieving long-term success for GIS classroom implementation*

**4/4/2019 (Thursday)**  
Student Paper Competition Business Geography  
**Day:** 4/4/2019  
**Start / End Time:** 8:00 AM / 9:40 AM  
**Room:** Stones Throw 3, Marriott, Mezzanine Level  
Sara Tornabene*, UNC Charlotte, *North Tryon commercial landscape in Charlotte, North Carolina*  
Yi (Zoey) Zhang*, University of North Carolina at Charlotte, *Application of spatial optimization techniques to the location of fast food outlets*
Land Use and Land Cover Change II

Day: 4/4/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Buchanan, Marriott, Mezzanine Level
Gang Chen*, University of North Carolina at Charlotte, Stand age estimation of rubber plantations using satellite time series

Spatiotemporal Methods For Health

Day: 4/4/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Truman, Marriott, Mezzanine Level
Michael Richard Desjardins*, University of North Carolina - Charlotte; Center for Applied Geographic Information Science, Claudio Owusu, University of North Carolina - Charlotte; Center for Applied Geographic Information Science, Kathleen Baker, Western Michigan University, Eric Delmelle, University of North Carolina - Charlotte; Center for Applied Geographic Information Science, Exploring the impact of residential mobility on cluster detection of chlamydia infections: results from surveillance data of Kalamazoo County, Michigan

GeoAI and Deep Learning Symposium: Spatial-Temporal Modeling and Data Mining I

Day: 4/4/2019
Start / End Time: 3:05 PM / 4:45 PM
Room: Capital Room, Omni, Lobby Level
Alexander Hohl*, Utica College, Eric Delmelle, University of North Carolina at Charlotte, Wenwu Tang, University of North Carolina at Charlotte, Xun Shi, Dartmouth College, Detecting Space-Time Patterns Under Non-Stationary Background Population

Symposium on Frontiers in Geospatial Data Science: Big Data Computing for Geospatial Applications

Day: 4/4/2019
Start / End Time: 5:00 PM / 6:40 PM
Room: Roosevelt 5, Marriott, Exhibition Level
Wenwu Tang*, University of North Carolina at Charlotte, Minrui Zheng, University of North Carolina at Charlotte, Zachery Slocum, University of North Carolina at Charlotte, Jianxin Yang, University of North Carolina at Charlotte, Craig Allan, University of North Carolina at Charlotte, A Cyberinfrastructure Approach for Big Data-Driven Microtopographic Analysis
Claudio Owusu*, Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina, Charlotte NC 28223, Samantha Dye, Gaston County Department of Health & Human Services, Gastonia, NC 28052, Wenwu Tang, Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina, Charlotte NC 28223, Eric Delmelle, Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina, Charlotte NC 28223, Using multiple-variable indicator kriging for evaluating water quality from private household wells in Gaston County, NC

Food Justice Scholar-Activism/Activist Scholarship
Panelist: Colleen Hammelman
Day: 4/4/2019
Start / End Time: 5:00 PM / 6:40 PM
Room: Governor's Room, Omni, Lobby Level

Reverse Electrodialysis in North Carolina: Is natural salinity gradient conducive to renewable power plant siting?
Type: Poster
Theme: Human-Environment Geography, Land Use, Sustainability Science
Hannah Palko, UNC Charlotte and Lindsay Dubbs, UNC Chapel Hill and UNC Coastal Studies Institute
Day: 4/5/19
Start/End Time: 8:00am-9:40 am
Room: Lincoln 2 Marriot, Exhibition Level
Reverse Electrodialysis in North Carolina: Is natural salinity gradient conducive to renewable power plant siting?

Migration and Movement
Day: 4/5/2019
Start / End Time: 8:00 AM / 9:40 AM
Room: Directors Room, Omni, Lobby Level
Johanna Claire Schuch, University of North Carolina - Charlotte, **Understanding Latinx Civic Engagement in a New Immigrant Gateway**

**Doing Critical Community Geography to Inform Policy: Approaches and Outcomes I**

Day: 4/5/2019  
Start / End Time: 8:00 AM / 9:40 AM  
Room: Cleveland 1, Marriott, Mezzanine Level  
Janni Sorensen*, UNC Charlotte, *A model of action research for building neighborhood decision-making capacity*

The Ethnic Geography Specialty Group Honors Dr. Heather Smith with the Distinguished Scholar Award: (De)Constructing my Geographic Knowledge: Reflections from a conflicted and still evolving scholar  
Day: 4/5/2019  
Start / End Time: 3:05 PM / 4:45 PM  
Room: Congressional A, Omni, Lobby Level  
(Johanna Claire Schuch *University of North Carolina – Charlotte is also a part of this panel*)

**All Biogeography and Paleoenvironmental Change Considered**  
Type: Poster  
Theme: Physical Geography in Environmental Science  
Day: 4/5/2019  
Start / End Time: 3:05 PM / 4:45 PM  
Room: Lincoln 2, Marriott, Exhibition Level  
Steven Falconer, UNC Charlotte - Academic Advisor, Steven Porson*, University of North Carolina - Charlotte, Patricia Fall, UNC Charlotte - Academic Advisor  
*Investigating Urban Collapse: A Paleoecological Analysis of the Southern Levant During Early and Middle Bronze Ages*

**4/6/2019 (Saturday)**

Changes in commercial landscapes of transit neighborhoods in Charlotte, NC: preliminary analysis  
Type: Poster  
Theme: Transportation and Urban Planning  
Elina Sukaryavichute, *University of North Carolina - Charlotte*  
Day 4/6/2019  
Start/End Time: 8:00 AM - 9:40 AM  
Room: Lincoln 2, Marriott, Exhibition Level
Changes in commercial landscapes of transit neighborhoods in Charlotte, NC: preliminary analysis

The rise of Korean communities in 21st-century immigrant gateways
Type: Poster
Theme: Urban Geog. Specialty Group Poster Competition: Understanding 21st Century City
Jaeho Ko, University of North Carolina - Charlotte
Day: 4/6/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Lincoln 2, Marriott, Exhibition Level

The rise of Korean communities in 21st-century immigrant gateways

Physical Geography and Environmental Science
Day: 4/6/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Taylor, Marriott, Mezzanine Level
Douglas Shoemaker*, University of North Carolina - Charlotte, Todd K BenDor, UNC Chapel Hill,
Ross K Meentemeyer, NC State University
Anticipating trade-offs between urban growth and ecosystem service production: scenario analyses of sprawl alternatives for a rapidly urbanizing region

Spatial Optimization and Analysis II
Day: 4/6/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Roosevelt 4, Marriott, Exhibition Level
Paul Jung*, University of North Carolina - Charlotte, Ran Tao, University of South Florida, Jean-Claude Thill, University of North Carolina at Charlotte, Regionalization Problem for Spatial Flow Aggregation: Reducing Uncertainty in Migration Data with flowAMOEBA

Future Trends in Integrating Geography, GIScience, and Health Research
Panelist: Eric Delmelle University of North Carolina at Charlotte
Day: 4/6/2019
Start / End Time: 1:10 PM / 2:50 PM
Room: Marshall South, Marriott, Mezzanine Level

Women in Geography, Building Leaders for Tomorrow
Panelist: Deborah Thomas
Day: 4/6/2019
Start / End Time: 1:10 PM / 2:50 PM
Room: Wilson A, Marriott, Mezzanine Level
Normative and Exclusive Natures
Day: 4/6/2019
Start / End Time: 1:10 PM / 2:50 PM
Room: 8217, Park Tower Suites, Marriott, Lobby Level
Sara Newman*, University of Colorado - Denver, Deborah SK Thomas, University of North Carolina, Charlotte, Social Construction of Health and Nature: Beyond Fit and Fat, Engaging with Klondike Gold Rush NHP and Perceptions of Health

Spatial Optimization and Analysis III
Day: 4/6/2019
Start / End Time: 1:10 PM / 2:50 PM
Room: Roosevelt 4, Marriott, Exhibition Level
Minrui Zheng*, University of North Carolina - Charlotte, Wenwu Tang, University of North Carolina at Charlotte, Xiang Zhao, Wuhan University, Spatially explicit hyperparameter optimization

Symposium on Human Dynamics Research in the Age of Smart/Intelligent Systems: Sensing Human Dynamics for Smart Urban Functions
Day: 4/6/2019
Start / End Time: 3:05 PM / 4:45 PM
Room: Congressional B, Omni, Lobby Level
Ran Tao*, University of South Florida, Jean-Claude Thill, University of North Carolina at Charlotte, Detecting Intracity Travel Patterns with flow cross K-function

Cultural perspectives on environmental studies
Day: 4/6/2019
Start / End Time: 3:05 PM / 4:45 PM
Room: Taylor, Marriott, Mezzanine Level
Abel Ayon*, University of North Carolina - Charlotte, Mapping cultural ecosystem services in Mecklenburg County
Geography and Urban Health, Environmental perception, Cultural Geography

State, local and/or global production networks
Day: 4/6/2019
Start / End Time: 5:00 PM / 6:40 PM
Room: Marriott Ballroom Salon 2, Marriott, Lobby Level

4/7/2019 (Sunday)

A Web GIS-Based Approach for Pavement Distress Management
Day: 4/7/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Marshall North, Marriott, Mezzanine Level
Zachery Slocum*, University of North Carolina - Charlotte, Wenwu Tang, University of North Carolina - Charlotte, Minrui Zheng, University of North Carolina - Charlotte, Jianxin Yang, University of North Carolina - Charlotte

An Online GIS-based Data Collection, Management and Analysis System for Private Wells
Day: 4/7/2019
Start / End Time: 9:55 AM / 11:35 AM
Room: Marshall North, Marriott, Mezzanine Level
Yu Lan*, University of North Carolina - Charlotte, Wenwu Tang, University of North Carolina - Charlotte, Eric Delmelle, University of North Carolina - Charlotte, Samantha Dye, Gaston County Department of Health & Human Services, *An Online GIS-based Data Collection, Management and Analysis System for Private Wells*