

Emily R. Morris

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EDUCATION

- M.S. Geography, University of Oregon, Eugene, Oregon. 2015.
Thesis title: *Identifying Spatial Data Needs for Chagas Disease Mitigation*.
Link: <https://scholarsbank.uoregon.edu/xmlui/handle/1794/19312>
- B.S. Geography - Geographic Information Systems Concentration, Appalachian State University, Boone, North Carolina. 2013.
Thesis title: *Analysis of Urban Land Cover on Precipitation around Three Urban Centers in the Kentucky-Ohio River Valley*

EXPERIENCE

- Cartographic Data Manager* Kentucky Geological Survey (KGS), University of Kentucky, Lexington, KY.
January 2018-Present Created cartographic products to communicate KGS data and research for digital and print deliverables. Managed and analyzed digital geological data for desktop and online use on the KGS website.
- Environmental Specialist* McGill Associates, Boone, NC. Performed GIS and GPS field data collection
March 2017-December 2017 and management for wetland delineations, water and sewer asset inventories, and stream assessment. Incorporated field data into GIS and AutoCAD for site planning and map creation. Conducted Phase 1 ESA investigations and 401/404 permit applications.
- Environmental Technician* Brushy Fork Environmental Consulting, Inc. Mountain City (Midway), TN.
August 2016-March 2017 Performed field data collection for stream assessment using total station survey equipment for natural resource restoration/conservation projects and wetland delineations. Incorporated field data into GIS and AutoCAD for site planning and map creation. Collaborated on Phase 1 ESA investigations and 404/401 permit applications.
- Transportation Intern* Transportation Department, City of Durham. Adapted transportation map
April 2016-July 2016 documents in GIS for ArcGIS Server and ArcGIS Online to be published to The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC-MPO) website.
- Graduate Teaching Fellow* Department of Geography, University of Oregon. Taught lab sections for
September 2013- June 2015 Introduction to Human Geography, Remote Sensing I, Our Digital Earth, and Introduction to Physical Geography courses. Conducted research on identifying spatial data needs for Chagas disease mitigation using GIS and agent-based modeling.

<i>Graduate Assistant Summer 2014</i>	Created interactive online maps using ArcGIS Online for an online textbook for the Our Digital Earth geography course. Created spatial datasets for a project simulating the causes and impacts of bark beetle outbreaks across the American West, funded by the National Science Foundation.
<i>NSF Research Intern Summer 2012</i>	Texas A&M University, College Station, Texas. NSF Research Experiences for Undergraduates (REU) program in ecohydrology of a tropical montane cloud forest in San Juan de Peñas Blancas, Costa Rica, funded by the National Science Foundation. Classified synoptic conditions associated with precipitation in Costa Rica.
<i>NSF Research Intern Summer 2011</i>	Western Kentucky University, Bowling Green, Kentucky. NSF Research Experiences for undergraduates (REU) program in the impacts of land use and land cover on the Upper Green River Watershed. Analyzed the effects of urbanization on precipitation around three urban centers in the Kentucky-Ohio River Valley.

PUBLICATIONS (Peer-Reviewed)

- (1.) **Emily Morris** and Christopher Bone. 2016. "Identifying spatial data availability and spatial data needs for Chagas disease mitigation in South America." *Spatial and Spatio-temporal Epidemiology* 17: 45-58.

GRANTS, SCHOLARSHIPS, and AWARDS

Graduate Teaching Fellowship, Department of Geography, University of Oregon, **\$25,902**

G. Herbert Stout Undergraduate Award, North Carolina GIS Conference Outstanding Paper Competition, North Carolina Center for Geographic Information and Analysis (NCCGIA), **\$50**.

Julian Yoder Scholarship for Geography, 2012. Department of Geography and Planning, Appalachian State University, **\$600**.

Phi Kappa Phi Undergraduate Research Grant, 2012. The Honor Society of Phi Kappa Phi. Appalachian State University, **\$265**.

NSF REU: Ecohydrology of a Tropical Montane Cloud Forest in Costa Rica, Texas A&M University. 2012, **\$5,000**.

Office of Student Research (OSR) Travel Grant. February 2012. Appalachian State University, to present at the Annual meeting of the Association of American Geographers (AAG), New York, New York, **\$150**.

Office of Student Research (OSR) Travel Grant. November 2012. Appalachian State University, to present at the Annual meeting of the Southeastern Division of the Association of American Geographers (SEDAAG), Asheville, North Carolina, **\$150**.

NSF REU: Mammoth Cave - Upper Green River Watershed. 2011. Western Kentucky University, **\$5,000**.

Faye and Moses Crutchfield Geography Scholarship, 2011. Department of Geography and Planning, Appalachian State University, \$400.

PARTICIPATION AT PROFESSIONAL MEETINGS

Emily Morris and Christopher Bone

2015. Identifying spatial data needs for Chagas disease mitigation through agent-based modeling. *Annual Meeting of the Association of American Geographers*. 21-25 April 2015, Chicago, Illinois.

Emily Morris, Rezaul Mahmood, and Christopher Badurek

2013. Synoptic classification of urban heat island-initiated precipitation events around three urban centers in the Kentucky-Ohio River Valley. *Annual Meeting of the Association of American Geographers*. 9-13 April 2013, Los Angeles, California.

SKILLS

ArcGIS, ArcGIS ModelBuilder, ArcGIS Online, Python, NetLogo, AutoCAD Civil 3D, Wetland Delineation, Total Station Surveying, Adobe Illustrator, Adobe Photoshop, R, Statistical Package for the Social Sciences (SPSS), GNU PSPP, Google Earth, ERDAS IMAGINE, Microsoft Access, QGIS, Familiar with Microsoft SQL, National, State, and Local Climate Data, and Reanalysis Data

PROFESSIONAL MEMBERSHIPS

Association of American Geographers and Gamma Theta Upsilon: The International Geographic Honor Society