

# ADAM D. GRIFFITH

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## PERSONAL SUMMARY

Southeastern biologist with proven ability to leverage advanced geospatial techniques and cartography to elucidate patterns and relationships from real-world data. Proven community organizer with the ability to communicate and collaborate with diverse populations via partnerships with non-profit environmental and educational organizations.

## EXPERTISE

- GIS and cartography
- Southeastern native plants
- Remote sensing
- Aerial imagery
- Grant writing
- Written and oral communication

## PROFESSIONAL EXPERIENCE

**Graduate Assistant** 2014 - 2018  
*University of North Carolina at Charlotte, Charlotte, NC*

- Taught beginner and advanced GIS to graduate and undergraduate students

**GIS Intern - Information Technology Services** 2017  
*City of Asheville, Asheville, NC*

- Deployed and created web maps from manually stitched historical aerial images

**Young Leader in Climate Change Fellow** 2015  
*NPS and USGS – Indiana Dunes National Lakeshore, Porter, IN*

- Developed a measure of resilience to climate change in R based on sensitivity of primary productivity to fluctuations in weather and climate in five National Parks

**Coastal Research Scientist and Adjunct Professor of Biology** 2008 - 2014  
*Western Carolina University, Cullowhee, NC*

- Conducted coastal research and taught biology for majors

**Co-Founder and Director of Science and Coastal Environments** 2010 - 2013  
*Public Lab, Boston, MA*

- Worked with 6 other co-founders to secure a \$500,000 grant from the John S. and James L. Knight Foundation to start the Public Lab, an international non-profit

**Kayak Instructor and Nantahala River Head Guide** 2003 - 2006  
*Nantahala Outdoor Center, Bryson City, NC*

**6th Grade Science Teacher at W.I. Stevenson Middle School** 1999 - 2002  
*Houston Independent School District, Houston, TX*

## EDUCATION

**Ph.D. Geography** September 2018  
*University of North Carolina at Charlotte, Charlotte, NC*

**M.S. Biology** May 2008  
*Western Carolina University, Cullowhee, NC*

**B.S. Biology** May 1999  
*Roanoke College, Salem, VA*

## PROJECTS

Asheville Area Habitat for Humanity February 2018  
*Independent Research*

- Analyzed and mapped changes in land value over 13 years in Buncombe County from county tax records
- Provided land acquisition decision support to Board of Trustees

Mapping of WNC 2016 Fires October 2017  
*Independent Research*

- Quantified and visualized changes in forest primary productivity due to fires in Google Earth Engine

Historical Maps of Asheville August 2017  
*City of Asheville*

- Manually georeferenced, orthorectified, and mosaicked historical aerial imagery
- Implemented ESRI mapping solution to serve data via public webpage

Rivercane Restoration Project 2006-2014  
*Western Carolina University*

- Advised Cherokee Central School on restoration of native rivercane
- Coordinated 8 volunteer transplanting days with over 100 volunteers from the WCU campus and Cherokee communities
- Designed and implemented web map linking plant donors and recipients

## SOFTWARE SKILLS

**Expert level:** ArcGIS 10.X, ArcGIS Online, QGIS, R, MS Office Suite, Google Docs

**Intermediate:** Linux (shell scripts), Python, HTML, JSON, Google Earth Engine, ArcGIS Server, ENVI, GitHub, Voxler