

# James Gregory (Greg) Dobson

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## ACADEMIC CREDENTIALS

- May 2006: M.A. in Geography  
Appalachian State University, Boone, NC
- May 2003: B.S. in Geography, Minor in Technology  
East Tennessee State University, Johnson City, TN
- Dec. 2002: A.S. in Geomatics Technology  
Greenville Technical College, Greenville, SC

## EMPLOYMENT HISTORY

- Adjunct Instructor**, Department of Atmospheric Sciences, University of North Carolina at Asheville, January 2008 - Present.
- Adjunct Instructor**, Department of Business Computer Technologies, Asheville-Buncombe Technical Community College, January 2007 - December 2007.
- GIS Research Scientist\***, National Environmental Modeling and Analysis Center, University of North Carolina at Asheville, June 2006 - Present.
- GIS Research Assistant**, Department of Geography and Planning, Appalachian State University, August 2005 to August 2006.
- GIS Consultant / Analyst**, Department of Biology, Appalachian State University, May 2005 – July 2008.
- GIS Workshop Teaching Assistant**, Spatial Outreach Laboratory, Department of Geography and Planning, Appalachian State University, spring and summers 2004 - 2006.
- Graduate Field Teaching Assistant**, Department of Geography and Planning, Appalachian State University, July - 2005.
- Graduate Field Assistant**, Department of Geography and Planning, Appalachian State University, June/July - 2004.
- Graduate Assistant**, Department of Geography and Planning, Appalachian State University, January 2004 - May 2005.
- GIS Technician**, Anderson and Associates, Johnson City, TN, May 2002 - December 2003.
- Survey Technician**, Tinsley Surveying, Inc., Easley, SC, August 1997 - August 2001.

## AWARDS

- Outstanding Master's Thesis Award in Social Science and Education, April 2007.
- Outstanding Graduate Student Award, May 2006.
- G. Herbert Stout Graduate Student Award, March 2005.

\* *Current Full-time Position.*

## **PUBLICATIONS**

- Pierce, T., Dobson, J.G., and M. Phillips. 2009. "GIS Mashups on the Web: Using Google, ESRI, and Open Source to Develop Weather and Climate Applications for the Web." *Proceedings of the Geospatial Information and Technology Association's Annual Conference*, April 2009, Tampa, Florida.
- Dobson, J.G., Phillips M., and T. Pierce. 2009. "Developing Geospatial Decision Support Tools for a Local NWS Office and other Regional Decision Makers." *Proceedings from the 89th American Meteorological Society's Annual Meeting*, January 2009, Phoenix, Arizona.
- Thomas, N., Dobson, J.G., Dezendorf, P., Cantrell, M., and D. Abernathy. 2009. (In Press). "Development of a Parcel-based Density Analysis Tool to Evaluate Growth Patterns in Western North Carolina." *Journal of Conservation Planning*.
- Fox, J.F., Dobson, J.G., Phillips, M., and T. Pierce. 2008. "Visualization as a Decision Support Tool – Asheville's North Fork Reservoir (Buncombe County, North Carolina) and the Balance between Drought and Flood Mitigation." *Proceedings from the 2008 Southeast Regional Conference of the Association of State Dam Safety Officials*, April 2008, Asheville, North Carolina.
- Colby, J.D. and J.G. Dobson. 2008. (Re-Submitted). "Comparative Flooding between the Coastal Plains and Mountains of North Carolina." *Natural Hazards Review*.
- Colby, J.D. and J.G. Dobson. 2006. "Flood Modeling in the Coastal Plains and Mountains." *Proceedings from the Fourth meeting of the American Water Resources Association's Specialty Conference - GIS and Water Resources*, May 2006, Houston, Texas.
- Dobson, J.G. 2006. "Flood Modeling in a Mountain Environment: A Case Study on the Watauga River in Western North Carolina." M.A. thesis, Appalachian State University.
- Dobson, J.G. 2004. "The Spatial Variations of Mean Annual Snowfall in Western North Carolina." *The North Carolina Geographer* 12: 19-31.

## **PROFESSIONAL MEMBERSHIPS**

- American Meteorological Society (AMS)
- Association of American Geographers (AAG)
- North Carolina Arc Users Group (NCAUG)
- Mountain Regional GIS Alliance (MRGAC)
- Southeastern Division of the Association of American Geographers (SEDAAG)

## **SELECTED ACADEMIC, PROFESSIONAL, AND PUBLIC SERVICE**

- Science Team Committee for the Land of Sky Regional Council of Governments' Linking Lands Project, July 2008 – Present.
- North Carolina Arc Users Group Board Member, January 2008 – Present. 2008 and 2009 Fall Conference Committee – Program Coordinator; 2008 and 2009 Student Scholarship Committee; 2008 and 2009 NCAUG Newsletter Editor. [www.ncaug.com](http://www.ncaug.com).
- Organized and Co-Hosted a 2008 GIS Day Event with Asheville Buncombe Technical Community College, November 14<sup>th</sup>, 2008; November 9<sup>th</sup>, 2007.
- National Climatic Data Center, GIS / Common Data Model (CDM) Team Committee, September 2007 – Present.
- Maintain website and communication technologies for the Mountain Regional GIS Alliance (MRGAC), since November 2006. [www.mrgac.blogspot.com](http://www.mrgac.blogspot.com)
- Certified Weather Spotter for the National Weather Service's SKYWARN Program, since February 2004.