

**Randa Rollins Harris, M.S., P.G.**  
**Office:** Department of Geosciences  
University of West Georgia  
Carrollton, Georgia 30118  
678-839-4056

**EDUCATION:**

May 2001 University of Tennessee, Knoxville, TN  
M.S. in Geological Sciences  
*Thesis:* "A Sedimentological Investigation of  
Anthropogenic Effects on the Tallapoosa River Basin,  
Georgia"

March 1998 State University of West Georgia, Carrollton, GA  
B.S. in Geology

**EXPERIENCE:**

February 2001 – Present University of West Georgia, Carrollton, GA  
**Instructor:** Teaching Physical Geology  
Lab (GEOL 1121L), Historical Geology Lab  
(GEOL 1122L), Weather and Climate Lab (GEOG 1112L),  
Landforms Laboratory (GEOG 1113L), Environmental  
Observations Lab (GEOL 1123L), Mineralogy Lab (GEOL  
3014L), Science Foundations (XIDS 2201), and  
Geochemistry Lab (GEOL 4014L), as well as designing  
and maintaining the WebCT component for all Physical  
Geology Labs.  
**Research Scientist:** Supervising a water quality laboratory  
for the West Georgia Watershed Assessment and Long  
Term Monitoring Project. Duties include field work, lab  
analyses, ordering supplies, training, and hiring of all  
student labor. Lab analyses include TKN, nitrate-nitrite  
nitrogen, E. coli, ammonia nitrogen, chemical oxygen  
demand, biological oxygen demand, total suspended solids,  
and fecal coliform.

June 2007 – Present Soil and Water Solutions, LLC, Bowdon, GA  
**Owner and Geologist:** Performing soil and geologic  
consulting, particularly for septic tank installation and  
NPDES monitoring. Certified in Level 1A and 1B for  
Georgia's Erosion and Sedimentation Certification  
Program. Certified Soil Classifier for the state of Georgia.

- 1998-2000 University of Tennessee, Knoxville, TN  
Teaching Assistant: Taught 10 introductory labs, including Physical Geology, Historical Geology, and Environmental Geology. Devised syllabus and lectures and administered grades. Taught summer geology camp in the Smoky Mountains for science teachers.
- 1998 R&D Testing and Drilling, Inc., Atlanta, GA  
Staff Geologist: Responsibilities were related to geotechnical investigations and the construction services industry.

### **HONORS AND ACTIVITIES:**

- November 2006 Licensed as a Water Laboratory Analyst (#WL014274)  
May 2005 Licensed as a Professional Geologist (#PG001787)  
June 2003 Trained to train teachers in the GLOBE program  
January 2003 Member of the Local Committee for the Trust for Public Land Source Water Stewardship Program  
May 2001 Trained in Microbiological Analysis of Drinking Water  
2000 UT Geological Sciences Best Student Research Presentation  
1997 *American Mineralogist* Undergraduate Award Recipient  
1996-1997 Listed in Who's Who Among Students in American Universities and Colleges  
1996-1997 State University of West Georgia Department of Geology Scholarship Recipient  
1993-1997 Georgia Governor's Scholarship  
1993-1997 CB&T Named Presidential Scholar

Member of Phi Kappa Phi National Honor Society (past Treasurer of UWG chapter)  
Member of Georgia Geological Society  
Member of Geological Society of America  
Member of UWG Safety Committee  
Member of Georgia Lakes Society  
Member of the Georgia Association of Water Professionals  
Member of Georgia River Network  
Member of the Carroll County Transportation Plan Stakeholder Committee  
Organized a session at the 2006 Annual Geological Society of America entitled "Arsenic, Lead, and Mercury in Urban and Rural Watersheds"  
Organized a session at the Southeastern Geological Society of America meeting entitled "Undergraduate Research in Watershed Assessment"  
Listed in the Marquis Who's Who in America  
Co-authored a grant proposal in 2006 from the Upper Tallapoosa Watershed Group for Continuous Monitoring of the Little Tallapoosa and Chattahoochee Rivers and received \$5,000 from the Community Foundation.

Served as Judge in the West Georgia Regional Science Fair for many years  
Vice-President (formerly on Board of Directors) of the Upper Tallapoosa Watershed  
Group (UTWG). I have helped organize educational meetings and river clean-ups for  
UTWG and have presented information to civic clubs.

UTWG Mission Statement:

*UTWG is a diverse group of concerned citizens that are interested in protecting,  
preserving, and using the Tallapoosa watershed in Haralson and Carroll Counties.  
Protection, preservation, and usage of the Tallapoosa River need not be exclusive of each  
other.*

#### **PUBLICATIONS AND ABSTRACTS:**

- 1998, Rollins, Randa P. and Timothy M. Chowns. "Depositional Sequences in  
Holocene-Pleistocene Sediments from Vibracores on Jekyll Island, Georgia."  
Georgia Journal of Science, Vol. 56, No. 1, p. 53.
- 2000, Rollins, Randa P. "A Sedimentological Investigation of Anthropogenic Effects on  
the Tallapoosa River Basin, Georgia" *unpublished* M.S. Thesis. University of  
Tennessee. p. 140.
- 2001, Harris, Randa R., Curtis L. Hollabaugh, Julie K. Bartley, Randal L. Kath, and  
Johnny A. Waters. "Environmental Geochemistry of the Little Tallapoosa River  
Watershed. Variations in Water Quality Parameters with Seasonality, Land  
Usage, and Point Sources." Geological Society of America Annual Meeting, Vol.  
33, No. 6, p. 360.
- 2002, Harris, Randa R., Curtis L. Hollabaugh, Julie K. Bartley, Randal L. Kath, and  
Johnny A. Waters. "The How-to's in Watershed Investigation, Based on the West  
Georgia Watershed Assessment of Carroll and Heard Counties, Georgia."  
Southeastern Geological Society of America Annual Meeting, Vol. 34, No. 2,  
p. 77.
- 2002, Hollabaugh, Curtis L., Randa R. Harris, John D. Congleton, Randal L. Kath,  
Julie K. Bartley, and Johnny A. Waters. "Variations of Water Quality Parameters  
of 38 Streams in West Georgia with Seasonality, Land Usage and Rainfall,  
Carroll and Heard Counties, Georgia." Southeastern Geological Society of  
America Annual Meeting, Vol. 34, No. 2, p. 63.
- 2002, Harris, Randa R., Curtis L. Hollabaugh, Julie K. Bartley, Johnny A. Waters, and  
Randal L. Kath. "Assessing the Assessment: How to Investigate a Watershed  
Based on the West Georgia Watershed Assessment of Carroll and Heard  
Counties, Georgia." Georgia Journal of Science, Vol. 60, No. 1, p. 25.
- 2002, Harris, Randa R. and Curtis L. Hollabaugh. "A Critical Evaluation of Water  
Quality Standards on a State by State Basis." Geological Society of America  
Annual Meeting, Vol. 34, No. 6, p. 418.

- 2002, Hollabaugh, Curtis L., Randa R. Harris, and Teddy D. Martin. "Preliminary Comparison of Sampling Density and Frequency for Surveys of Surface Water Quality Studies: Potential Differences in Results with Weekly, Monthly, and 4 Wet/Dry Sampling Schedules." Geological Society of America Annual Meeting, Vol. 34, No. 6, p. 419.
- 2003, Harris, Randa R. and Curtis L. Hollabaugh. "Stormchaser: The 12-Hour Sample Interval for Water Quality Analysis of Surface Streams in the Piedmont and Valley and Ridge of West Georgia." Geological Society of America Annual Meeting, Vol. 34, No. 7, p. 404.
- 2003, Hollabaugh, Curtis L. and Randa R. Harris. "Sediment, Fecal Coliform Bacteria, and Nutrients in Streams of West Georgia: Contributions of Baseflow, Wetflow, and Stormflow." Geological Society of America Annual Meeting, Vol. 34, No. 7, p. 404.
- 2003, Prince, R. Josh, Hollabaugh, Curtis L., and Randa R. Harris. "The Past, Present, and Future of the Chattahoochee River: Historical Trends and Present Water Quality Analysis as Predictors of the Future." Geological Society of America Annual Meeting, Vol. 34, No. 7, p. 145.
- 2003, Bailey, Heather B., Hollabaugh, Curtis L., and Randa R. Harris. "Heavy Metals in Crayfish Populations of Buffalo Creek, Carroll County, Georgia." Geological Society of America Annual Meeting, Vol. 34, No. 7, p. 145.
- 2003, Holloway, Jake L., Hollabaugh, Curtis L., and Randa R. Harris. "The Agricultural Influence on Water Quality in Streams of the West Georgia Region." Geological Society of America Annual Meeting, Vol. 34, No. 7, p. 146.
- 2004, Harris, Randa R. and Curtis L. Hollabaugh. "An Examination of Water Quality of the Nation's Ten Most Endangered Rivers in 2003." Geological Society of America Combined Northeastern and Southeastern Section Meeting, Vol. 36, No. 2, p. 66.
- 2004, Harris, Randa R., Jake Holloway, and Curtis L. Hollabaugh. "Bioaccumulation of Mercury in Large Catfish of the Coosa River, Georgia." Geological Society of America meeting, Vol. 36, No. 5, p. 560.
- 2004, Hollabaugh, Curtis L. and Randa R. Harris. "How Land Usage, Point Sources, Population, and Big Cities Affect the Water Quality of Small and Large Watersheds in Georgia." Geological Society of America Combined Northeastern and Southeastern Section Meeting, Vol. 36, No. 2, p. 108.
- 2004, Harris, Randa R. and Curtis L. Hollabaugh. "A Comparison of Water Quality Parameters Among the American Rivers Ten Most Endangered Rivers in the

- Nation for 2003.” Georgia Journal of Science, Vol. 62, No. 1, p. 49.
- 2004, Hollabaugh, Curtis L. and Randa R. Harris. “Big Cities and Big Rivers: The Effect of Big Cities on the Water Quality of Five Georgia Rivers and One Tennessee River.” Georgia Journal of Science, Vol. 62, No. 1, p. 49.
- 2005, Proctor, Erin T., Jones, John R., Scarborough, Kristen H., Roney, Ryan O., Harris, Randa R., and Curtis L. Hollabaugh. “Determination of Arsenic in Soil Under a Deck Built of CCA Pressure Treated Wood in West Georgia.” Geological Society of America Annual Meeting, Vol. 37, No. 7, p. 301.
- 2005, Hollabaugh, Curtis L., Harris, Randa R., and Wesley T. Loveless. “Variations of Nutrients, Turbidity, and Fecal Coliform Bacteria from 2001 to 2005 in the Little Tallapoosa Watershed, Carroll County, Georgia. Geological Society of America Annual Meeting, Vol. 37, No. 7, p. 353.
- 2006, Hollabaugh, Curtis L. and Randa R. Harris. “Aquiphile Students and Watershed Research in west Georgia from 1988 to 2006: Advancement in Science and Undergraduate Education at the University of West Georgia.” Southeast Geological Society of America Meeting, Vol. 38, No. 3, p. 32.
- 2006, Proctor, Erin T., Harris, Randa R., and Curtis L. Hollabaugh. “Nutrient Levels and Variation of Streams in the Little Tallapoosa Watershed, Carroll County, Georgia.” Southeast Geological Society of America Meeting, Vol. 38, No. 3, p. 33.
- 2006, Loveless, Wesley T., Harris, Randa R., and Curtis L. Hollabaugh. “Seasonal Variations of Dissolved Oxygen, Nutrients, Turbidity, and Fecal Coliform Bacteria from 2004 to 2006 of Three Small Watershed Lakes in the Little Tallapoosa Watershed Carroll County, Georgia.” Southeast Geological Society of America Meeting, Vol. 38, No. 3, p. 32.
- 2006, Harris, Randa R., Hollabaugh, Curtis L., and Andra T. Cole. “Mercury in Watersheds from Lake Erie to the Gulf of Mexico: Using Public Databases to Determine Relationships Between Length (Age) and Mercury in Large Fish.” Geological Society of America Annual Meeting, Vol. 38, No.7, p. 153.
- 2006, Hollabaugh, Curtis L. and Randa R. Harris, “Undergraduate Research in Watershed Assessment in West Georgia: Physical and Chemical Characterization of Small (Central Campus Branch), Medium (Little Tallapoosa River), and Large (Chattahoochee River) Watersheds.” Geological Society of America Annual Meeting, Vol. 38, No. 7, p. 30.
- 2007, Harris, Randa R. and Curtis L. Hollabaugh, “Mercury in Watersheds in Georgia: Using Public Databases to Establish Relationships in Mercury Concentration and Size in Largemouth Bass.” Georgia Journal of Science, Vol. 65, No.1, p. 44.