

# TAMIE J. JOVANELLY

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P.O. Box 495036, Mount Berry, GA 30149 • 706-238-5868 (office) • tjovanelly@berry.edu

## PROFESSIONAL PROFILE

- Enthusiastic instructor and researcher who inspires and encourages students in the field of geology
- Extensive experience in environmental and geological studies in a variety of terrains

## EDUCATION

### Doctor of Philosophy, Geology

Department of Geology 2006

Kent State University; Kent, Ohio

Dissertation: Sedimentological Analysis of an Ancient Tsunami Sand Sheet at Lynch Cove, Puget Sound, Washington

### Master of Science, Geoscience

Department of Geoscience

University of Nebraska; Lincoln, Nebraska

Thesis: Groundwater-Surfacewater-Climate Interactions of Two Lakes in North Dakota 2001

### Bachelor of Science, Geology

Department of Environmental Science

The University of Michigan; Dearborn, Michigan 1999

*Cum laude*

Languages (familiarity with written and spoken forms): English, Spanish, Japanese, Italian, Swahili

Equipment: DIONEX Ion Chromatography, Ro-Tap Sieve Instrument, Malvern Mastersizer 2000 Particle Size Analyzer, Camsizer Particle Size Analysis System, Micrometrics SediGraph 5120 Particle Size Analysis System

Skills: Wilderness First Responder (2008), Professional Association of Diver Instructors-Open Water Diver Certification (2010)

## ACADEMIC TEACHING EXPERIENCE

### Associate Professor of Geology

2006 – Present

Berry College, Rome Georgia

- Courses taught in Fall (even years): Physical Geology Lecture/Lab (GEO 101), Hydrology Lecture/Lab (GEO 420)
- Courses taught in Spring (odd years): Historical Geology Lecture/Lab (GEO102), Advanced Topics in Geology Lecture/Lab (GEO350)
- Courses taught in Fall (odd years): Physical Geology Lecture/Lab (GEO 102), Environmental Geology (GEO 320)
- Courses taught in Spring (even years): Historical Geology Lecture/Lab (GEO102), Geomorphology (GEO360), Environmental Science Methods Lecture/Lab (EVS 405)
- Summer courses: Geological Field Studies Abroad (GEO 155)

### Instructor, Department of Geology

Kent State University; Kent, Ohio

2001 – 2006

## COURSES CURRENTLY TAUGHT

Physical Geology  
Historical Geology  
Environmental Geology  
Hydrology  
Cenozoic Global Climate Change  
Directed Study

Geomorphology  
Environmental Methods  
Study Abroad: Iceland Geology  
Study Abroad: Italy Geology  
Study Abroad: Tanzania Geology  
Advanced Special Topics in Geology

## RESEARCH POSITIONS

**US Fulbright Specialist** 2017-present  
US Department of State's Bureau of Educational and Cultural Affairs and World Learning Program

- Nominated and elected by peer review panel to be an elite member of the academic support committee for finding solutions to world-wide challenges
- Environmental consultant on water resources, allocation, quality, and conservation for 150 countries globally

**US Fulbright Research Scholar, Makerere University, Kampala, Uganda** 2013-2014  
Forest Hydrology with the School of Environmental Sciences; Makerere University, Uganda

- Initial funding provided by Berry College Faculty Development Grant
- Collaborated with Ugandan researchers; Studies conducted:
  - Water and soil analysis at four forest reserves (Zika, Kitubulu, Mabira, Mwpanga)
  - Surveyed recent mining and human encroachment activities
  - Interviewed local tribal communities regarding land use

**Visiting Researcher, Foundation Award** 2003  
Earthquake and Tsunami Research at Earthquake Research Institute; University of Tokyo, Japan

- *Recipient of the scholarship – chosen from over 1,000 applicants*
- All expenses paid for six months
- Jointly funded by Japanese Society for the Promotion of Science and National Science Foundation
- Utilized written and spoken Japanese language skills while in attendance
- Collaborated with Japanese researchers; Studies conducted:
  - Piston core project in Lake Aokiko
  - Repaired tidal gauge and calibrated equipment, Miyagi-Enoshima Island, Miyagi-Enoshima Tsunami Observatory, University of Tokyo
  - Re-evaluation of areas struck by tsunami in 1993 at Okshiri Island
  - Surveyed recent earthquake damage
  - Collected samples for mineralogical analysis at Mount Uta
  - Investigation of paleo-tsunami deposits in Tateyama City

## HONORS

Distinguished Speaker, Rishikesh, India, Global Interfaith Wash Alliance meeting Spring 2017  
Distinguished Leverett Lecturer, Citadel- The Military College of South Carolina, SC Spring 2016  
Distinguished Speaker, University of Puerto Rico, 31<sup>st</sup> Annual Caribbean Geology Symposium and International Tsunami Forum Spring 2016  
Fulbright U.S. Research Scholar, project title: Encouraging forest stewardship through long-term water quality monitoring Spring 2013  
Elected as an Association for Women Geoscientist Distinguished Speaker Spring 2012  
Senior Appreciation Awards Spring 2012  
Senior Appreciation Awards Spring 2011  
Student Work Banquet Spring 2011  
Invitation to attend Project GAIN (Geoscience Academics in the Northeast) Writing Retreat Spring 2009/10  
Distinguished Alumni Award, Wayne Memorial High School (Alma mater) Spring 2009

## GRANTS

Berry College, Faculty Development Grant: Roadside Guide to the Geology of Iceland	Spring 2016
Association for Women Geoscientist Distinguish Lecturer (\$800), March 2015	Spring 2015
Rufford Foundation Conservation Trust Grant (\$8,000) (PI): Critical, immediate, and necessary improvements to endangered antelope habitat through water quality assessment, August 2014	Summer 2014
National Geographic Society Conservation Trust Grant (co-PI), Conservation of Ugandan forests through the Water Quality Index, funded (\$20,000), November 2012	Fall 2012
Berry College, Faculty Development Grant, Geological and Hydrological investigation of four Forest reserves in Uganda, \$2463	Spring 2012 Spring 2011
Berry College, School Mathematical and Natural Science Travel Grant	Spring 2011
Association for Women Geoscientists Distinguished Lecturer, \$800	Spring 2011
Berry College, School Mathematical and Natural Science Travel Grant	Fall 2010
Berry College, Faculty Development Grant, Participation in Paleontology Workshop	Fall 2010
Berry College, School Mathematical and Natural Science Travel Grant	Spring 2010
Berry College, Faculty Development Grant, Participation in Coastal Geomorphology Course	Fall 2009
Berry College School Mathematical and Natural Science Travel Grant	Fall 2009
Bonner Center Sponsored Community-Engagement Project, \$500	Spring 2008
NASA Distinguished Guest Speaker Visiting Lecturer Grant, \$2000	Spring 2008
Berry College School Mathematical and Natural Science Travel Grant	Spring 2008
Berry College, Faculty Development Grant, Participation in Wilderness First Responder class	Spring 2008
Berry College, Center for Teaching Excellence Faculty Development Grant, \$1000	Spring 2008
Association for Women Geoscientists Distinguished Lecturer, \$800	Spring 2008
Berry College, Faculty Development Grant, Teaching Field Methods in Hydrogeology” Workshop Attendance, \$387	Fall 2007
Berry College School Mathematical and Natural Science Travel Grant	Fall 2007
Berry College, Laura Maddox Smith Summer Research Grant \$5,200	Spring 2007
Association for Women Geoscientists Distinguished Lecturer, \$500	Spring 2007
Berry College, International Course Development Grant, \$3,195	Spring 2007
Berry College, Center for Teaching Excellence Faculty Development Grant, \$1,000	Spring 2007
Berry College School Mathematical and Natural Sciences Travel Grant	Spring 2007
Berry College, Asian Studies Task Force Development Honorarium, \$300	Spring 2007
Berry College, Faculty Development Grant, GIS Workshop Attendance, \$900	Fall 2006

## MAJOR GRANTS WITH STUDENTS

Researching Undergraduate Research Grant: Dye Tracer Testing in the Grand Canyon	Spring 2016
Synovus Scholar Award, Berry College: Implications of Fracking in Northwest GA	Spring 2016

## COMMITTEE SERVICE

2006-2017

- US Fulbright Foundation, Georgia Chapter, Treasurer (2017-2020)
- Geological Society of America Professional Development Committee, Member-At-Large (2017-2020)
- American Institute for Professional Geologists Berry College Student Chapter, Advisor (2017-present)
- Developing Undergraduate Research Mathematical and Natural Sciences committee (2015- 2017)
- Berry College Judicial Board (2008-present)
- Environmental Science Committee (2006-present)
- ELM committee (2006-2012)
- Women’s Study Committee (2008-2012)
- Swing Club advisor (2009-2012)
- International Programs Committee (2007-2010)
- Council on Student Scholarship (2007-2009)
- Advisor to Krannert Center Advisory Board (2007)
- Victory Lake/Quarry Committee Advisor (2006-2012)

## MEMBERSHIPS

REI Advisory Committee	2015-present
Geological Society of America	2004 - present
Georgia Geological Society	2009 - present
Atlanta Geological Society	2009 - present
Tellus Museum (formerly Weiman Mineral Museum) member, Cartersville, GA	2007 - 2009
Mineral Society of Rome, GA	2007 - 2009
Association for Women Geoscientist (1,000 members in the national organization), Secretary	2002 – 2004

## PUBLICATIONS

Jovanelly, T.J., Okot-Okumu, James, and Namaganda, Emily. (2017) Comparative assessment of ambient air quality standards in rural Uganda to city center. *Journal of Public Health in Developing Countries*, v. 3 (1): 371-380.

Jovanelly, T.J., Johnson-Pynn, Julie, Okot-Okumu, James, Nyenje, Richard, and Namaganda, Emily. (2015) Pioneering water quality data on the Lake Victoria watershed impacts to human health. *Journal of Water and Health (World Health Organization)*, v. 13.3, 920-930.

Jovanelly, T. J. (2014) Sinkholes and a disappearing lake: Victory Lake case study, *Journal of Cave and Karst Studies*.

Jovanelly, T. J. (2014) Incorporating QRL scan codes in a geology-awareness campus engagement project, *Journal of Geoscience Education*.

Jovanelly, T.J., Okot-Okumu, J., and Godwin, E. (2012) A preliminary investigation to water and soil quality in four forest reserves near Kampala, Uganda, *Journal of Environmental Hydrology*. Vol. 20, Paper 10, 1-9.

Jovanelly, T.J. and Lane, L. (2012) Comparison of the functional morphology of *Appalachiosaurus* and *Albertosaurus*, *Open Geology Journal*. Vol. 6, 78-84.

Jovanelly, T. J. and Johnson-Pynn, J. (Winter 2012) Pedagogy, science literacy, and study abroad, *Academic Exchange Quarterly*.

Jovanelly, T.J., and Fritz, S.C. (2011), Morphometric and chemical response of two contrasting lake systems to modern climate change, *Journal of Paleolimnology*, Vol. 46, No. 1, p. 89-98.

Jovanelly, T.J. (2011) The identification of land use practices and elevated levels of *Escherichia coli* in the Coosawattee River, Georgia, USA. *Georgia Journal of Science*, Vol. 69, No. 4, p. 151-160.

Jovanelly, T. (Spring 2009). Inquiry-based introductory earth science laboratory using survey equipment, *Georgia Educational Researcher*, Vol. 7, no. 1, pages 1-8.

Jovanelly, T. and Moore, A.L. (2009). Sedimentological Analysis of an Ancient Sand Sheet of Multiple Origins at Lynch Cove, Puget Sound, Washington. *Journal of Coastal Research*, Vol. 25, no. 2, pg. 294-304.

## PRESENTED ABSTRACTS

Jovanelly, T. J. (2016) Field trips local and abroad: What every trip leader needs to know about insurance coverage, *Abstracts with Programs-American Geophysical Union*. San Francisco, CA. American Geophysical Union.

Jovanelly, T. J. (2016) Pioneering water quality data on Lake Victoria watershed: Impacts on Human Health, *Abstracts with Programs-Geological Society of America*, Vol. 47, No.7, pg. 724. Baltimore, MD. Geological Society of America (GSA).

Jovanelly, T.J. (2015). Water worries: discussion and implications for Lake Victoria watershed. *International Conference on Water and Society*, Vol 3, Coruna, Spain.

Johnson-Pynn, J. S., Jovanelly, T. J., & Johnson, L. R. (2014). Parks and peoples: Imposing and resisting wilderness in Uganda's forest reserves. Society for Cross-Cultural Research. Charleston, SC.

Jovanelly, T. J. (2014) Incorporating QRL scan codes in a geology-awareness campus engagement project, Geological Society of America, Vancouver, British Columbia.

Jovanelly, T.J., and Johnson-Pynn, J. (2012), A preliminary investigation to water and soil quality in four forest reserves near Kampala, Uganda, *Abstracts with Programs-Geological Society of America*, Vol. 44, No.7, pg. 387. Charlotte, NC. Geological Society of America (GSA).

Jovanelly, T. (2011), Is building a strip mall on a brownfield in a flood plain a good idea?: A community-engagement project, *Abstracts with Programs-Geological Society of America*, Vol. 43, No.5, pg. 79. Minneapolis, MN. Geological Society of America (GSA).

Jovanelly, T. (2011) Impacts of erosion and siltation on the Lower Etowah river, Georgia, *Abstracts with Programs-Geological Society of America Southeastern Section*, Vol. 43, No. 2, p. 83. Wilmington, NC. Geological Society of America (GSA).

Jovanelly, T. and Briggart, M. (2010) Land use and levels of *Escherichia coli* in the Coosawattee River, Georgia, *Abstracts with Programs-Geological Society of America*, Vol. 42, no. 5, pg. 594. Denver, CO. Geological Society of America (GSA).

Jovanelly, T.J., Stevenson, J.C, and Cook, J. (2009) When a lake's inflow equals its outflow, which direction do you decide to go?: To fill or not to fill an emptied lake, *Abstracts with Programs-Geological Society of America Southeastern Section*, Vol.41, no. 1, pg. 4. St. Petersburg, FL. Geological Society of America (GSA).

Jovanelly, T. and Fritz, S. (2009) Morphometric and chemical response of two contrasting lake systems to modern climate change, *Abstracts with Programs-Geological Society of America*, Vol. 41, no. 7, pg. 655. Portland, OR. Geological Society of America (GSA).

Jovanelly, T. (2008) Pennies, Nickels, and Dimes: Restoring a lake takes money and time, *Abstracts with Programs-Geological Society of America Southeastern Section*,. Vol. 40, no. 4, pg. 4. Charlotte, NC. Geological Society of America (GSA).

Jovanelly, T. (2007) The reappearance of the disappearing lake: A Magic Act for Houdini or a Hydrogeologist?, *Abstracts with Programs-Geological Society of America*,. Vol. 39, no. 6, pg. 16. Denver, CO. Geological Society of America (GSA).

Jovanelly, T. (2007) The role of the Association for Women Geoscientists in Promoting Girl Scouting, *Abstracts with Programs-Geological Society of America Southeastern Section*,. Vol. 39, no. 2, pg. 92. Savannah, GA. Geological Society of America (GSA).

Jovanelly, T. and Moore, A.L. (2005) Sedimentological analysis of an ancient tsunami sand sheet at Lynch Cove, Puget Sound, Washington, *Abstract with Programs – Geological Society of America*, Vol. 37, no. 7, p. 65. Boulder, CO. Geological Society of America (GSA).

Moore, A., Jovanelly, T., Imamura, F., and Koshimura, S. (2002) Hydraulic inferences from tsunami deposits associated with the 26 November 1999 Vanuatu tsunami, *Abstract with Programs-Geological Society of America: Tsunami Risk and Its Reduction in the Asia Pacific Region Section*, Vol. 35, no. 8, pg. 25. Seattle, WA. Geological Society of America (GSA)

## **ABSTRACTS WITH STUDENTS**

Patterson, J. and Jovanelly, T.J. (2017). Restoring the Coastal Prairie: A Soil Study of the Texas City Prairie Preserve. Abstracts with Programs- Southeastern Geological Society of America, Richmond, VA. Geological Society of America (GSA)

Bess, M. and Jovanelly, T. J. (2017). Education and outreach: discussing the cause and effect relationship of natural gas fracturing with Northwestern Georgia communities. Abstracts with Programs- Southeastern Geological Society of America, Richmond, VA. Geological Society of America (GSA)

Paulk, M., Santamaria, J., and Jovanelly, T. J. (2017). A description of Northwest Georgia fossil collection (Cambrian-Oligocene). Abstracts with Programs- Southeastern Geological Society of America, Richmond, VA. Geological Society of America (GSA)

Jovanelly, T.J. and Maddrey, R. (2016). Establishing baseline water quality data sets for headwater areas of the Coosa River Basin, Rome, GA. Abstracts with Programs- Southeastern Geological Society of America, Columbia, SC. Geological Society of America (GSA)

Jovanelly, T.J. and Midkiff, M. (2016). A comparison study of groundwater quality and summer visitor population patterns on a Georgia barrier island: a water quality assessment. Abstracts with Programs- Southeastern Geological Society of America, Vol. 48, No. 3, Columbia, SC. Geological Society of America (GSA)

Jovanelly, T.J., Childres, H., and Fleeman, L. (2015). Water quality analysis of EPA 303(D) impaired tributary on Berry College Campus. Abstracts with Programs- Geological Society of America, Vol. 47, No. 2, Chattanooga, TN. Geological Society of America (GSA)

Jovanelly, T.J. and Lane, L. (2012) Comparison of functional morphology of Appalachiosaurus and Albertosaurus with implications on arm length, Abstracts with Programs-Geological Society of America, Vol. 44, no. 4, Asheville, NC. Geological Society of America (GSA).

Baldvins, T., Myrbo, A., Stefanova, I., and Jovanelly, T. (2010) Paleoflora of wild rice communities, Georgia, *Abstracts with Programs-Geological Society of America*, Vol. 42, No. 5. Denver, CO. Geological Society of America (GSA).

Jovanelly, T. and Briggart, M. (2010) Land use and levels of *Escherichia coli* in the Coosawattee River, Georgia, *Abstracts with Programs-Geological Society of America*, Vol. 42, no. 5. Denver, CO. Geological Society of America (GSA).

Kemm, M. and Jovanelly, T. (2009) Environmental impacts of reconstruction of a brownfield: A case study, *Abstracts with Programs-Geological Society of America Southeastern Section*, Vol. 41, no. 1, pg. 4. St. Petersburg, FL, Geological Society of America (GSA).

Jovanelly, T., Stevenson, J. and Cook, J. (2009) When a lake's inflow equals its outflow, which direction do you decide to go?: To fill or not to fill an emptied lake, *Abstracts with Programs-Geological Society of America Southeastern Section*, Vol. 41, no. 1, pg. 3. St. Petersburg, FL, Geological Society of America (GSA).

Ramsey, D. and Jovanelly, T. (2007) The effect of Lavender Mountain on precipitation distribution, *Abstracts with Programs-Geological Society of America Southeastern Section*, Vol. 39, no. 2, p. 29. Savannah, GA. Geological Society of America (GSA).

Srymanske, R. and Jovanelly, T. (2007) Preliminary Studies of groundwater-surface water interactions of an intermittent creek. *Abstracts with Programs- Geological Society of America Southeastern Section*, Vol. 39, no. 2, pg. 28. Savannah, GA. Geological Society of America (GSA).

## **ARTICLE AND BOOK REVIEWS**

Key Concepts in Geomorphology, WH Freeman, 2013.

Journal of Coastal Research, "Historical hydrology and sedimentary accumulation of Bahia Columbia, Gulf of Uraba, Colombian Caribbean region" April 2009

W.H. Freeman & Co. Publishers, Geomorphology text book chapters, September 2010

Georgia Journal of Science, "Assessing small streams in the Upper Ocmulgee watershed using the Georgia Adopt-A-Stream monitoring protocols" July 2011

Georgia Journal of Science, "Monitoring water quality in the lower Oconee River" January 2012

Journal of Geoscience Education, "Restructuring an undergraduate environmental geology course using multiple pedagogies" February 2012

## PROFESSIONAL DEVELOPMENT

- Geological Society of America, attended annually 1999 – 2015
- Paleofossil workshop on Morrison Formation in Morrison , CO 2010
- GAIN writing retreat, Boston College, Boston, MA 2009/2010
- Wilderness First Responder and CPR certified 2008
- Teaching Field Methods in Hydrogeology one-day workshop, Denver, CO 2007
- Weiman Mineral Museum Graves Mountain Exploration Field Trip 2007
- Geographic Information Systems Arc GIS 9.0 certified 2006
- 40 hours of Asbestos Training. NIOSH certified.
- Hazwopper Training 40 hours. Training per 1910.120 (e)(3)(I)
- Confined Space Entry Training Certification
- Structural Control of the Hydrogeology in the Mantled Karst of the Southern Ozarks 2005
- Seismic Facies and Sequence Stratigraphy of Carbonate Systems, University of Miami, Sedimentology Laboratory 2005
- International Tsunami Symposium; Hokkaido, Japan 2003
- Exxon Mobil Integrated Basin Exploration Short Course 2005
- Association for Women Geologists, attend meetings in Spring and Fall 2002-2004

## FIELD STUDIES

- 2016
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (celand); 13 students
- 2015
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Italy); 18 students
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Tanzania, Africa); 10 students
- 2013
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Tanzania, Africa); 30 students
- 2012
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Italy); 19 students
- 2011
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Tanzania, Africa); 11 students
- 2010
- Study Abroad Course entitled GEO 155/350: Geological Field Studies Abroad (Italy); 28 students
- Riverine Sand Dune Complexes, Macon thru Savannah, GA
- Barrier Island Evolution, Coastal GA.
- Karstic cave systems, Trenton, GA
- 2009
- Study Abroad Course entitled GEO 152: Geology of Iceland; 4 students
- Raccoon Mountain Hydroelectric Plant
- Plant Hammond (coal)
- Plant Vogtle (nuclear)
- Exploration of barxite and ochite mines, Macon, GA
- Vulcan granite mine, Kennesaw, GA

2007-2008

- Study Abroad Course entitled GEO 152: Geology of Iceland; 10 students
- Sapelo Island, GA; evolution of barrier islands

2006-2007

- Site visitation to Iceland
- Mineralogy of Graves Mountain, Georgia
- Geology of the Cherokee National Forest, Tennessee
- Geology and Fossils of Cloudland Canyon State Park, Georgia
- Exploration of caves in karst topography, Fox Mountain, Georgia
- History and Geology of Gettysburg, Pennsylvania
- Historic Bartow County Mine Tour, Georgia

2005-2002

- Tsunami and earthquake studies, Tokyo, Japan
- Fluvial sediment transport, Puget Sound, Washington
- Sedimentary rocks and structures in Cuyahoga National Forest, Ohio

2001

- Paleontology at the Ash Fall Fossil Beds National Monument, Nebraska
- Sand Dune Formation in Western Nebraska and Eastern Colorado
- Coral Reefs in Caicos Islands, British Indies
- Coastal Processes in North Carolina and South Carolina
- Caves in Fayetteville, Arkansas
- Groundwater Hydrology in Fayetteville, Arkansas

2000

- Karst Topography in Guadeloupe Mountain Range in Texas and New Mexico
- Studied Glacial Morphology in Colorado

1999

- Copper Mining – Upper Peninsula, Michigan
- Devils Towers in Wyoming
- Erosional Processes in the Badlands in North Dakota and South Dakota
- Glaciers in Wisconsin

1998

- Ecology and Range Management of Public Land – 4-1/2 week backpacking through 230 miles of continental divide; University of Montana



Above, Dr. Tamie J. Jovanelly is interested in the effects of water quality on human and animal habitat.