TAMIE J. JOVANELLY

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PROFESSIONAL PROFILE

- International researcher who consults on water quality, conservation, and allocation
- Published textbook author of advanced geological concepts
- Enthusiastic instructor who inspires and encourages students in the field of geoscience
- Research website: www.globalwaterquality.com or search "global water quality Jovanelly"
- Author website: www.geologyoficeland.com or search "geology of Iceland Jovanelly"

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

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

ACADEMIC TEACHING EXPERIENCE

Associate Professor of Geology, Tenured 2014

2006 - Present

Berry College, Rome Georgia

- Teaching load includes one introductory course with laboratory and one upper-level (junior/senior) course with laboratory per semester
- Primary responsibility to the Geology Concentration that is under the umbrella of Environmental Science
- Advisement of 15-20 Geology Concentration students
- Responsibilities to school and college committees

Instructor, Department of Geology

Kent State University; Kent, Ohio

2001 - 2006

COURSES CURRENTLY TAUGHT

Physical Geology Historical Geology Environmental Geology Cenozoic Global Climate Change Hydrology/Hydrogeology Geological Field Studies of Iceland, Italy, Tanzania

RESEARCH POSITIONS

International Ocean Drilling Project

December 2020-January 2021

- I will observe research scientists as they collect data from ocean sediment cores that help to determine changes in climate and oceanic systems
- The knowledge I gain from this expedition will allow me to create STEM Educational Resources that will be disseminated through the Science Education and Research Center hosted at Carelton College

Research Scientist, Arctic Circle Grant

April 2020-August 2021

- The research position will allow me to live aboard a Barquentine Tall Sailing Ship for 3 months traveling to the International Territories of Svalbard, 10 degrees north of the Arctic Circle
- I will study water quality of the islands as influenced by past coal mining efforts, climate change patterns, and the geology of the islands.
- The expedition has been postponed until Summer 2021 due to COVID-19

American Geophysical Union Voices for Science Fellow

April 2020-March 2021

- The program goal is to address the critical need for communicating the value and impact of Earth Science to key decision makers, journalists, and public audiences.
- Write weekly public press articles for dispersal in social and print media venues

US Fulbright Research Scholar, National University, San Jose, Costa Rica

2018-2020

US Department of State's Bureau of Educational and Cultural Affairs and World Learning Program

- Collaborate with Costa Rican colleagues to create a baseline data set for important ecological areas
- Comparative study of developed, undeveloped, and developing countries and their relationships to watersheds

US Fulbright Specialist 2017-2020

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

Wiley Publishing Company

March 2017-2020

• Contracted to write an advanced geological concepts book about Iceland. Titled Iceland: Tectonics, Volcanics, and Glacial Features (published 2020)

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.

ELECTED LEADERSHIP POSITIONS

Georgia Fulbright Chapter, Board of Directors, President Association for Women Geoscientists, Board of Directors, Communication Coordinator Georgia Fulbright Chapter, Board of Directors, Treasurer Geological Society of America, Professional Development Committee, Member-At-Large HONORS	2020-2021 2019-2021 2016-2020 2017-2020		
Georgia Technical Institute Invited Speaker, Global Learning Center, "What does it take to be a great professor?"	Spring 2019		
Advisor of the Year Award, Berry College Invited Panel Speaker, Kampala, Uganda, Rufford Foundation Africa Conservation Group Distinguished Speaker, Rishikesh, India, Global Interfaith Wash Alliance meeting Distinguished Leverett Lecturer, Citadel- The Military College of South Carolina, SC Distinguished Speaker, University of Puerto Rico, 31st Annual Caribbean Geology Symposium and International Tsunami Forum	Spring 2018 Winter 2018 Spring 2017 Spring 2016 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 Senior Appreciation Awards Senior Appreciation Awards Student Work Banquet Invitation to attend Project GAIN (Geoscience Academics in the Northeast) Writing Retreat Distinguished Alumni Award, Wayne Memorial High School (Alma mater)	Spring 2012 Spring 2012 Spring 2011 Spring 2011 Spring 2009/10 Spring 2009		
GRANTS			
Berry College, Faculty Development Grant: Roadside Guide to the Geology of Iceland Association for Women Geoscientist Distinguish Lecturer (\$800), March 2015 Rufford Foundation Conservation Trust Grant (\$8,000) (PI): Critical, immediate, and necessary improvements to endangered antelope habitat through water quality assessment, August 2014 National Geographic Society Conservation Trust Grant (co-PI), Conservation of Ugandan forests through the Water Quality Index, funded (\$25,000), November 2012 Berry College, Faculty Development Grant, Geological and Hydrological investigation of four Forest reserves in Uganda, \$2463 Berry College, School Mathematical and Natural Science Travel Grant Association for Women Geoscientists Distinguished Lecturer, \$800 Berry College, School Mathematical and Natural Science Travel Grant Berry College, Faculty Development Grant, Participation in Paleontology Workshop Berry College, School Mathematical and Natural Science Travel Grant Berry College, Faculty Development Grant, Participation in Coastal Geomorphology Course Berry College School Mathematical and Natural Science Travel Grant Bonner Center Sponsored Community-Engagement Project, \$500 NASA Distinguished Guest Speaker Visiting Lecturer Grant, \$2000 Berry College, Faculty Development Grant, Participation in Wilderness First Responder class Berry College, Center for Teaching Excellence Faculty Development Grant, \$1000 Association for Women Geoscientists Distinguished Lecturer, \$800 Berry College, Faculty Development Grant, Teaching Field Methods in Hydrogeology" Workshop Attendance, \$387 Berry College School Mathematical and Natural Science Travel Grant	Spring 2012 Spring 2011 Spring 2011 Spring 2011 Fall 2010 Fall 2010 Sprint 2010 Fall 2009 Fall 2009 Spring 2008 Spring 2008		
Berry College School Mathematical and Natural Science Travel Grant Berry College, Laura Maddox Smith Summer Research Grant \$5,200	Fall 2007 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

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

- US Fulbright Foundation, Georgia Chapter, President (2020-2021)
- Multicultural and International Student Programs Advisory Committee (2020-2022)
- Association for Women Geoscientists National Board, Communication Coordinator (2019-2021)
- US Fulbright Foundation, Georgia Chapter, Treasurer (2017-2020)
- Geological Society of America Professional Development Committee, Member-At-Large (2017-2020)
- Technical Advisor to the Uganda Wildlife Conservation Education Center Research and Projects Committee (2018-2021)
- ELM Committee, Berry College (2019-2021)
- American Institute for Professional Geologists Berry College Student Chapter, Advisor (2017-2019)
- Developing Undergraduate Research Mathematical and Natural Sciences committee (2015-2017)
- Berry College Judicial Board (2008-present)
- Environmental Science Committee (2006-present)
- Environment and Land Management 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

Geological Society of America	1999 - present
Georgia Geological Society	2009 - present
Atlanta Geological Society	2009 - present
Tellus Natural Science Museum	2007 -present
Association for Women Geoscientist	2002 – present

PUBLICATIONS

Jovanelly, T.J. (2020). A geologist's guide to exploring and understanding Iceland, Eos, 101, https://doi.org/10.1029/2020E0151147. Published on 05 November 2020.

Jovanelly, T.J., Rodríguez-Montero, L., Sánchez-Gutiérrez, R., Mena-Riveria, L., and Thomas, D.* (2020). Evaluating watershed health in Costa Rican national parks and protected areas. Sustainable Water Resources Management, v. 6 (76): 1-14. *student

Jovanelly, T.J. (2020). Improving endangered antelope habitat through water quality assessment and collaboration with Kenya Wildlife Service. International Journal of One Health, 6(2): 118-122.

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, 76(1).

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., Larrimore, E. and Carder, C. (2019) Comparative water quality analysis of Iceland and India. *Abstracts with Programs-Geological Society of America*, Vol. 50, No.10, pg. 155. Phoenix, AZ. Geological Society of America (GSA).

Jovanelly, T. J. (2018) Improvement or degradation of water quality? A field site visit to forest reserves near Kampala, Uganda, five-years after initial investigation. *Abstracts with Programs-Geological Society of America*, Vol. 51, No.111-2. Indianapolis, IN. Geological Society of America (GSA).

Jovanelly, T. J. (2017) Water quality and endangered impalas: Case study Kisumu, Kenya. *Abstracts with Programs-Geological Society of America*, Vol. 49, No.9, pg. 302. Seattle, WA. Geological Society of America (GSA).

Jovanelly, T. J. (2016) Field trips local and abroad: What every trip leader needs to know about insurance converage, *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

Tomlinson, A., Kessler, T.J. and Jovanelly, T.J. (2020). An investigation of dam release discharge and sediment loss on the Etowah River, GA, USA. Abstracts with Programs- Southeastern Geological Society of America, Reston, VA.

Johnson, S. and Jovanelly, T. J. (2020). Establishing the fossil record on Berry College campus. Student Symposium, Berry College.

Larrimore, E., Carder, C. and Jovanelly, T.J. (2019). Comparative water quality analysis of Iceland and India. Student Symposium, Berry College.

Patterson, J. and Jovanelly, T.J. (2018). "Inkarstable" Interactions: Berry College Groundwater Hyrdrology and Sinkhole Activity. Abstracts with Programs- Southeastern Geological Society of America, Knoxville, TN.

Bess, M. and Jovanelly, T.J. (2018). Moving Beyond Coal: How a Community Can Transition. Abstracts with Programs- Southeastern Geological Society of America, Knoxville, TN. Geological Society of America (GSA)

Groce-Wright, N. and Jovanelly, T.J. (2018). The Effect of Lavender Mountain on Local Rainfall Distribution Due to Orographic Lifting. Abstracts with Programs- Southeastern Geological Society of America, Knoxville, TN. Geological Society of America (GSA)

Sharpe, D., Groce-Wright, N. and Jovanelly, T. J. (2018). Topo-Stratigraphic Mapping of Taylor Ridge (Gore, GA). Abstracts with Programs- Southeastern Geological Society of America, Knoxville, TN. Geological Society of America (GSA)

Mennan, N., Larrimore, E. and Jovanelly, T. J. (2018). Using Iceland's Sustainable Energy Platform to Illustrate Benefits of Renewable Sources. Abstracts with Programs- Southeastern Geological Society of America, Knoxville, TN. Geological Society of America (GSA)

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 Albertosaurua 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).

RECENTLY FEATURED IN THE MEDIA

NPR feature and interview on The Academic Minute, August 2020, https://academicminute.org/2020/08/tamie-jovanelly-berry-college-water-quality/

Rome News Tribune, March 31, 2020. Berry College Professor tapped for climate change research above Arctic Circle. FRONT PAGE

https://www.northwestgeorgianews.com/rome/news/local/berry-professor-tapped-for-climate-change-research-above-arctic-circle/article c08dc360-7351-11ea-bde7-c770bfb53360.html

Rome News Tribune, March 5, 2020. Berry prof seeking solutions to Costa Rican water problems. FRONT PAGE https://www.northwestgeorgianews.com/rome/lifestyles/local/berry-prof-seeking-solutions-to-costa-rican-water-problems/article_0186839c-5ef9-11ea-a691-3775626648e0.html

Tough Girl Podcast Interview, August 2019, https://soundcloud.com/toughgirlchallenges/dr-tamie-jovanelly-world

Rome News Tribune, May 1, 2018. Berry Professor awarded Fulbright Research Grant https://www.northwestgeorgianews.com/rome/lifestyles/hometown headlines/berry-professor-awarded-fulbright-research-grant/article 2a3533ea-4d91-11e8-82bf-03d181f3886f.html

Science Streams Podcast Interview 20 December 2020 https://www.youtube.com/watch?v=Mb3W7IPSNw0&t=6s