

DR. TIFFANY A. RIVERA

Geology Program
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EDUCATION

- 2013 PhD, Geology, Roskilde University, Roskilde, Denmark (Advisor: Dr. Michael Storey)
Thesis: "Geomagnetic Reversal Boundaries of the Last 3 Ma: What are Their Real Ages?" Marie Curie Initial Training Network, 7th Framework Programme, "GTSnext: Towards the next generation geologic timescale for the last 100 million years"
- 2008 MSc, Geology, Boise State University, Boise, ID (Advisor: Dr. Mark D. Schmitz)
- 2005 BSc (*cum laude*), Earth Science, George Mason University, Fairfax, VA
- 2002 ASce, General Studies, Northern Virginia Community College, Sterling, VA

EMPLOYMENT & VOLUNTEER SERVICE*

- 2014 – present Assistant Professor of Geology, Westminster College, Salt Lake City, UT
- 2012 – 2014 Post-doctoral Research Scientist, Isotope Geology Lab, Boise State University, Boise, ID
- 2012 – 2014 Adjunct Faculty, College of Western Idaho, Nampa, ID
- 2009 – 2014 Senior Research Staff Assistant, Geoinformatics for Geochemistry, Palisades, NY
- 2009 Park Ranger, Craters of the Moon National Monument & Preserve, ID
- 2008 Wellsight Geologist & Mass Spec Technician, King Canyon Buffalo Inc., Thermopolis, WY
- 2008 Test Item Writer, Western Governor's University, Salt Lake City, UT
- 2008 Park Ranger, Zion National Park, Springdale, UT
- 2008 Graduate Assistant, Boise State University, Boise, ID
- 2007 – 2008 *Big Sister, Big Brothers Big Sisters of Southwest Idaho
- 2007 Geologists in the Park Intern (GeoCorps America), Craters of the Moon National Monument & Preserve, ID
- 2005 – 2007 Geology Teaching Assistant, Boise State University, Boise, ID
- 2004 – 2005 Geology Apprentice, George Mason University, Fairfax, VA
- 2002 – 2005 *Docent, Smithsonian Institute, National Museum of Natural History, Leesburg, VA

RESEARCH INTERESTS

Primary interests: radio-isotopic geochronology, zircon petrochronology, geomagnetic polarity reversals, basalt petrogenesis, applications of isotopic systems to mantle characterization.

Secondary interests: astronomical timescales, physical volcanology, and pedagogy in Earth Sciences.

TEACHING ACTIVITIES

Westminster College

GEOL 110	Introduction to Geology (FA14, SP15, FA15, SP16)	GEOL 300A	Field Study: Beyond Yellowstone (SU15)
WCSAM 111	National Parks Geology (FA16, SP17, FA17)	GEOL 300B	Volcanology (FA15)
GEOL 200A	Natural Hazards (FA14)	GEOL 300C	Natural Sciences of Hawaii (SU17)
GEOL 201	Mineralogy + lab (FA14, FA15, FA16, FA17)	GEOL 350	Geo-methods (FA16, FA17)
GEOL 202	Petrology + lab (SP15, SP16, SP17)	GEOL 405	Geochemistry (SP16)
GEOL 260	Geoliteracy (SP17)	GEOL 430	Undergraduate research (SP16)
		GEOL 440	Internship (SU15)

Northern Virginia Community College

GOL 295 Field Geology of the Northern Rockies (SU16)

Boise State University

GEOL 494 (cross listed as ANTH 494 & 594) Depositional environments of Lake Idaho
(SU13, SU14)

College of Western Idaho

GEOG 100	Physical geography + lab (SP13)	GEOL 102	Historical geology + lab (FA12, SP13, FA13)
GEOL 101L	Physical geology lab (FA12, SP13, FA13)	GEOL 104	Natural disasters and environmental geology + lab (FA13)

PROFESSIONAL SERVICE & SYNERGISTIC ACTIVITIES

InTeGrate Research Team member (2015-2017)

Westminster contributions: A&S Travel Committee (2015-2017), A&S Curriculum Committee (2015-2017), Contract Review Committee (2017), Geological Society of America Campus Representative (2014-present),

Association for Women Geoscientists: Catering Committee (Chair), 2016 & 2017; Salt Lake Valley Science Fair Special Awards Judge (2015, 2016, 2017); Hosted Distinguished Lecturer (2015)

Geological Society of America: Member – Membership committee, 2011-2014 (Chair 2013-2014); Secretary & Treasurer – Geoinformatics Division, 2011-2015; Campus Rep 2013-present

CWI contributions: General Education reform committee (member); Physical Sciences Department Chair hiring committee (member); Adjunct Committee of the CWI Senate (member); EPSCoR initiative on climate change with University of Idaho (participant, ICE Net, SP13-FA13); Geological Society of America Campus Representative; Course activities featured in two editions of Bert's Alerts Newsletter (GEOG 100 field trip,

March 17, 2013; GEOL 102 dinosaur tracks, April 19, 2013); Student contribution to student newsletter (GEOL 102, April 26, 2013)
Reviewer: Chemical Geology (2016); Earth and Planetary Science Letters (2013, 2014); Geology (2015); Journal of Petrology (2014); National Science Foundation Geochemistry & Petrology (2015, 2017); Nature (2017)
YES Network (2010-2012): Communications Team; Newsletter Lead Editor/Publisher; Denmark National Chapter Representative; Blogger; Event coordinator EGU 2011, GSA 2011, AGU 2011, IGC 2012; *Bulletin* organizer & editor

AWARDS & DISTINCTIONS

2017 Myriad Excellence in Learning Leadership Award, \$20,000
2017 Gore Math and Science Award, Westminster College, \$13,000
2016 Travel stipend awarded by the IsoAstro Geochronology Workshop
2015 National Science Foundation, RUI: Collaborative Research: Linking Small-volume Silicic Magmas to a Yellowstone Super-eruption Using a Petrochronologic Approach, \$148,000
2015 Association for Women Geoscientists Distinguished Lecturer grant, \$800
2012 Outstanding Student Paper Award, AGU
2012 Hutchison Young Scientist Award, IUGS, \$2,500
2012 Early Career Scientist Travel Fellowship (34th International Geological Congress) awarded by GSA-USNC/GS (IUGS and NAS), \$500
2011 Sponsorship (34th International Geological Congress) awarded by GSA, \$550 (Australian dollars)
2011 Travel grant (GSA Annual Meeting) awarded by GSA GeoCorps America, \$100
2011 Travel grant (GSA Annual Meeting) awarded by GSA International Section, \$400
2010 Travel grant (GSA Annual Meeting) awarded by GSA International Section, \$600
2010 Third Place – Abstract Images, GSA's 2nd Annual Photo Contest and Exhibition
2007 Travel Grant (GSA Annual Meeting) awarded by GSA Student Travel Grant for Minorities, Women, and Persons with Disabilities, \$60
2007 Burnham Grant, Boise State University, Department of Geosciences, \$1,100
2006 Burnham Grant, Boise State University, Department of Geosciences, \$1,110
2006 Outstanding Teaching Assistant of the Year, Boise State University, Department of Geosciences
2006 Travel Grant (Laboratory Work) awarded by Boise State University, Department of Geosciences, \$400
2005 W.A. Tarr Award, Sigma Gamma Epsilon, George Mason University

CERTIFICATIONS & ADDITIONAL TRAINING

2017 *Workshop*: iUtah Broader Impacts, sponsored by University of Utah
2016 *Certification*: Wilderness First Aid/CPR/AED
2016 *Workshop*: IsoAstro Geochronology Workshop, sponsored by Boise State University
2014 *Course*: NASA's Dynamic Mars webinar series
2014 *Course*: Field Safety Leadership, sponsored by ExxonMobil

- 2013 *Workshop*: Visualizing Data through the Creation of Infographics, sponsored by Boise State University Center for Teaching and Learning
- 2013 *Short Course*: Supporting Student Success in Geoscience at Two-year Colleges
- 2013 *Certification*: Online Instructional Certification, College of Western Idaho
- 2013 *Certification*: Responsible person for Erosion Control Management, City of Boise and Ada County, Idaho
- 2013 *Certification*: American Heart Association First Aid/CPR/AED
- 2011 *Course*: Field Safety Leadership, sponsored by ExxonMobil
- 2011 *Certification*: American Red Cross First Aid – When Help is Delayed
- 2011 *Workshop*: The Neogene, Paleogene, & Late Cretaceous Periods, sponsored by the Natural History Museum, Vienna, Austria
- 2011 *Workshop*: Grant Writing, sponsored by Earthtime-EU (Vrije University Amsterdam)
- 2011 *Course*: MATLAB, sponsored by Earthtime-EU (Vrije University Amsterdam)
- 2010 *Course*: Written & Oral Presentation Skills for Environmental Scientists, sponsored by Roskilde University
- 2010 *Workshop*: Research Communication & Strategic Publishing, sponsored by Roskilde University
- 2010 *Workshop*: Astronomical Timescales, sponsored by Earthtime-EU & Geological Observatory of Coldigioco (Italy)
- 2010 *Workshop*: Theory of radio isotope dating methods, sponsored by Earthtime-EU
- 2010 *Workshop*: Fundamental aspects of high-precision isotope-ratio mass spectrometry, sponsored by Earthtime-EU, UNIGE, NuInstruments and Thermo Fisher
- 2010 *Workshop*: Oral Presentations, sponsored by Earthtime-EU (Vrije University Amsterdam)
- 2010 *Workshop*: Effective Management, sponsored by Earthtime-EU (Vrije University Amsterdam)
- 2009 *Short Courses*: Epply Institute/National Park Service – Foundations of Interpretation; Informal Visitor Contacts; Interpretive Talk; Introduction to the National Park Service: The NPS and the Federal Government; Introduction to the National Park Service: The History of the NPS; Introduction to the National Park Service: The Organization of the NPS; Minimum Requirements Analysis; Program Access; The Wilderness Act of 1964; Universal Design
- 2009 *Certification*: American Red Cross First Aid/CPR/AED
- 2007 *Certification*: American Red Cross First Aid/CPR/AED

MEMBERSHIPS

Professional Organizations: Geological Society of America, American Geophysical Union, American Institute of Professional Geologists, Geochemical Society, American Geological Institute, Association of Women Geoscientists, National Association of Geoscience Teachers
 Academic Organizations: Alpha Chi, Sigma Gamma Epsilon (President SGE Epsilon Omicron chapter 2004-2005), Boise State Alumni Association (Lifetime member)

PUBLICATIONS & PRESENTATIONS

Refereed Articles

Rivera, T.A., Schmitz, M.D., Crowley, J.L., Jicha, B.R., 2016. Zircon petrochronology and $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine dates for the Mesa Falls Tuff: crystal scale records of magmatic evolution and the short lifespan of a large Yellowstone magma chamber. *Journal of Petrology*, v. 59, p. 1677-1704, (2 citations via Google Scholar); DOI: 10.1093/petrology/egw053

Rivera, T.A., Schmitz, M.D., Crowley, J.L., Storey, M., 2014. Rapid magma evolution constrained by zircon petrochronology and $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine ages for the Huckleberry Ridge Tuff, Yellowstone, USA. *Geology*, v. 42, p. 643-646, (28 citations via Google Scholar); DOI: 10.1130/g35808.1

Hilgen, F.J., Hinnov, L.A., Aziz, H.A., Abels, H.A., Batenburg, S., Bosmans, J.H.C., de Boer, B., Husing, S.K., Kuiper, K.F., Lourens, L.J., **Rivera, T.A.**, Tuenter, E., van de Wal, R.S.W., Wotzlaw, J.-F., Zeeden, C., 2014. Stratigraphic continuity and fragmentary sedimentation: the success of cyclostratigraphy as part of integrated stratigraphy, in G.D. Smith, R.J. Bailey, P.M. Burgess and A.J. Fraser (eds.), *Strata and Time: Probing the Gaps in Our Understanding*, Geological Society of London Special Publication. (24 citations via Google Scholar); DOI: 10.1144/SP404.12

Zeeden, C., **Rivera, T.A.**, Storey, M., 2014. An astronomical age for the Bishop Tuff and concordance with radio-isotopic dates, *Geophysical Research Letters*, v. 41, (9 citations via Google Scholar); DOI: 10.1002/2014GL059899

Rivera, T.A., Storey, M., Schmitz, M.D., Crowley, J.L., 2013. Age intercalibration of $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine and chemically distinct U/Pb zircon populations from the Alder Creek Rhyolite Quaternary geochronology standard. *Chemical Geology*, v. 345, p. 87-98 (51 citations via Google Scholar); DOI: 10.1016/j.chemgeo.2013.02.021

Rivera, T.A., Storey, M., Zeeden, C., Hilgen, F., Kuiper, K., 2011. A refined astronomically calibrated $^{40}\text{Ar}/^{39}\text{Ar}$ age for Fish Canyon sanidine. *Earth and Planetary Science Letters*, v. 311, p. 420-426 (83 citations via Google Scholar); DOI:10.1016/j.epsl.2011.09.017

Manuscripts in Preparation

Rivera, T.A., Schmitz, M.D., White, C.M., Petrogenesis and mantle source variations in Pleistocene basalts from the Western Snake River Plain, Idaho. *Journal of Petrology* (in revision at *Journal of Petrology*).

Rivera, T.A., Darata, R., Lippert, P.C., Jicha, B.R., Schmitz, M.D., Reassessing the age and polarity of first-cycle rhyolites of the Yellowstone Volcanic Field. (in review at *Earth and Planetary Science Letters*).

Datasets

Rivera, T.A., Jicha, B.R., 2015. $^{40}\text{Ar}/^{39}\text{Ar}$ single crystal sanidine dates for the Lava Creek Tuff (member B). Integrated Earth Data Applications (IEDA). <http://dx.doi.org/10.1594/IEDA/100549>.

Invited talks

Rivera, T.A., Idaho State University, April 12, 2017.

Rivera, T.A., Utah Geological Association, May 9, 2016.

Rivera, T.A., Utah State University, November 30, 2015.

Rivera, T.A., University of Utah, October 29, 2015.

Rivera, T.A., Brigham Young University, February 26, 2015.

Maps

Niles, J.H., Owen, D.E., Kuntz, M.A., Lefebvre, R.H., Champion, D.E., Barnes, A.C., Brulet, B.R., Chemtob, S.M., Clennon, R.P., Hansen, N., Keane, S., Kohler, R.M., Mocsny, B.L., **Rivera, T.A.**, Shirley, E.K., Truitt, K.E., Tveter, A.J., Wetherall, K.A., 2011, Geologic map of the core visitation area of the Craters of the Moon National Monument and Preserve, South-Central Idaho, with descriptions of 38 points of geologic interest. 1:24,000.

Edited Volumes

Cónsole-Gonella, C., **Rivera, T.A.**, Colarossi, D., Meng, W., Shah, A.A., Galal, W., Urquiza, S., 2011. YES *Bulletin Journal*, v.1 ISSN: 2222-7458.

Conference Abstracts (* undergraduate student)

Rivera, T.A., Rademacher, L., Abolins, M., Berg, C., Hansen, W., McConnell, D., Nagy-Shadman, E., Nelson, D., Richaud, M., 2017. Do InTeGrate materials increase scientific understanding among women? Earth Educators' Rendezvous, Albuquerque, NM.

Darata, R.*, **Rivera, T.A.**, Lippert, P.C., Jicha, B.R., Schmitz, M.D., 2016. $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine dating and paleomagnetic analysis of the Blue Creek Flow (Yellowstone Volcanic Field). Geological Society of America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Furlong, R.*, **Rivera, T.A.**, Lippert, P.C., Jicha, B.R., Schmitz, M.D., 2016. New $^{40}\text{Ar}/^{39}\text{Ar}$ and paleomagnetic data from the Bishop Mountain Flow, Yellowstone Volcanic Field. Geological Society of America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Gardiner, S*. **Rivera, T.A.**, Jicha, B.R., Schmitz, M.D., 2016. New $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine dates and zircon imaging for the Green Canyon Flow, Yellowstone Volcanic Field. Geological Society of

America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Rivera, T.A., Schmitz, M.D., Jicha, B., 2016. Tracking magma evolution within the Yellowstone Volcanic Field using integrated $^{40}\text{Ar}/^{39}\text{Ar}$ dating and zircon geochemistry. Geological Society of America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Rohrback, R.* , Bentley, C., **Rivera, T.A.**, Jaye, S.A., 2016. The continued (microscopic, explosive) expansion of the Mid-Atlantic Geo-Imagery Collection. Geological Society of America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Vincent, J.* , **Rivera, T.A.**, Jicha, B.R., Lippert, P.C., Schmitz, M.D., 2016. Lithology of the Tuff of Lyle Spring, Yellowstone Volcanic Field. Geological Society of America Annual Meeting *Abstracts with Programs* v. 48, no. 7.

Darata, R.* , **Rivera, T.A.**, Schmitz, M.D., Jicha, B.R., 2016. $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine dating of the Blue Creek Flow (Yellowstone Volcanic Field) and the potential recording of the Pre-Olduvai geomagnetic polarity excursion. Rocky Mountain Section Meeting, Geological Society of America *Abstracts with Programs* v. 48, no. 6.

Furlong, R.* , **Rivera, T.A.**, Schmitz, M.D., Jicha, B.R., 2016. New $^{40}\text{Ar}/^{39}\text{Ar}$ ages of the Bishop Mountain Flow from the Yellowstone Volcanic Field. Rocky Mountain Section Meeting, Geological Society of America *Abstracts with Programs* v. 48, no. 6.

Vincent, J.* , **Rivera, T.A.**, Schmitz, M.D., Jicha, B.R., 2016. $^{40}\text{Ar}/^{39}\text{Ar}$ age and petrography of the Tuff of Lyle Spring, Yellowstone Volcanic Field, Idaho. Rocky Mountain Section Meeting, Geological Society of America *Abstracts with Programs* v. 48, no. 6.

Gardiner, S* . **Rivera, T.A.**, Schmitz, M.D., Jicha, B.R., 2016. New $^{40}\text{Ar}/^{39}\text{Ar}$ sanidine dates for the Green Canyon Flow, Yellowstone Volcanic Field, and implications for a revised volcanic stratigraphy. American Geophysical Union Virtual Poster Showcase.

Rivera, T.A., 2015. Records of magmatic change as preserved in zircon: examples from the Yellowstone Volcanic Field (invited). American Geophysical Union abstract 65542.

Rivera, T.A., Schmitz, M.D., 2015. Records of magmatic evolution of small and large volume rhyolites in the Yellowstone Volcanic Field. Geological Society of America *Abstracts with Programs* 261313.

Rivera, T.A., Schmitz, M.D., Crowley, J.L., Jicha, B., 2014. Longevity of the Mesa Falls Tuff magma system recorded by zircon petrochronology and sanidine $^{40}\text{Ar}/^{39}\text{Ar}$ dates. Geological Society of America *Abstracts with Programs* 246739.

Rivera, T.A., Storey, M., 2013. Bracketing the Matuyama-Brunhes reversal with astronomically

calibrated $^{40}\text{Ar}/^{39}\text{Ar}$ ages. William Smith Meeting 2013.

Rivera, T.A., Schmitz, M.D., Crowley, J.L., Storey, M., 2013. Zircon petrochronology and astronomically calibrated $^{40}\text{Ar}/^{39}\text{Ar}$ ages for the Huckleberry Ridge Tuff. William Smith Meeting 2013.

Zeeden, C., **Rivera, T.A.**, Lourens, L., 2012. Certainties and uncertainties of orbitally tuned timescales. DEUQUA (German Quaternary Society). Abstract V.16.

Rivera, T.A., Storey, M., Schmitz, M.D., Zeeden, C., Crowley, J., Chesner, C., 2012, Refining the Quaternary geomagnetic polarity timescale. 34th International Geological Congress. Abstract 3560.

Zeeden, C. and **Rivera, T.A.**, 2012. Determining phase relations of proxy data using the eccentricity-precession pattern. European Geosciences Union EGU2012-4589.

Rivera, T.A., Lehnert, K.A., Hsu, L., Johansson, A.K., 2011. Overcoming challenges to making data re-usable: The example of geochemical databases. American Geophysical Union ED53B-0780.

Rivera, T.A., Storey, M., Kuiper, K. Palike, H., 2011. Towards an integrated geomagnetic polarity reversal timescale for the Pleistocene. American Geophysical Union V51A-2502.

Hsu, L., Lehnert, K.A., Walker, J.D., Chan, C., Ash, J., Johansson, A.K., **Rivera, T.A.**, 2011. Maximizing data holdings and data documentation with a hierarchical system for sample-based geochemical data. American Geophysical Union IN23C-1462.

Rivera, T.A., 2011. GTSnext: An international network to develop the next generation geologic time scale. Geological Society of America *Abstracts with Programs* 215-4. Available online at <http://bit.ly/tR3isM> (*invited*)

Storey, M., **Rivera, T.A.**, Flude, S., 2011. Accurate and precise $^{40}\text{Ar}/^{39}\text{Ar}$ dating by high-resolution, multi-collection, mass spectrometry. American Geophysical Union V51A-2506.

Rivera, T.A., Storey, M. Palike, H., Zeeden, C., 2011, Constraining the age of the Matuyama-Brunhes reversal using intercalibrated $^{40}\text{Ar}/^{39}\text{Ar}$ and astronomical ages of the Bishop Tuff and Australasian tektite, Geological Society of America *Abstracts with Programs* 43-2.

Hsu, L., Lehnert, K., **Rivera, T.**, Block, K., Chan, C., 2011, Geochemical-driven investigations of mountain building: the Deep Lithosphere Dataset, CIDER 2011 Summer Program Poster Session, Dynamics of Mountain Building, UC Berkeley

Storey, M., **Rivera, T.A.**, Flude, S. Stecher, O., 2011, $^{40}\text{Ar}/^{39}\text{Ar}$ dating of Quaternary volcanic

ashes by multi-collection noble gas mass spectrometry: protocols, precision and inter-calibration. International Union for Quaternary Research. Abstract 2176.

Rivera, T.A., Storey, M., Zeeden, C., Kuiper, K., and Hilgen, F., 2011, Support for the astronomically calibrated $^{40}\text{Ar}/^{39}\text{Ar}$ age of Fish Canyon sanidine: Evidence from the Quaternary. European Geophysical Union Research Abstracts Vol. 13, EGU2011-10378.

Rivera, T.A., Storey, M., Zeeden, C., Kuiper, K., and Hilgen, F., 2010, Supporting evidence for the astronomically calibrated age of Fish Canyon sanidine, American Geophysical Union. Abstract V31A-2304.

Rivera, T.A., Storey, M., 2010, American west tephra – Geomagnetic polarity events redefined through calibration of radio-isotopic and astronomical time, Geological Society of America *Abstracts with Programs* 160-11.

Rivera, T.A., White, C.M., Schmitz, M.D., 2007. Preliminary multi-isotopic data and potential regional connections for Late Cenozoic basalts of the Western Snake River Plain, Idaho. *EOS Transactions*, American Geophysical Union, vol. 88, no. 52, Abstract V13D-1591.

Rivera, T.A., Kysar-Mattietti, G., 2005. A comparative geochemical investigation of the Sierra Maestra Range (Southeast Cuba). Colonial Academic Alliance Undergraduate Research Conference, Hofstra University, New York.

Other Publications (not refereed)

Lehnert, K.A., Hsu, L., **Rivera, T.A.**, Walker, J.D., 2017. IEDA EarthChem: Supporting the sample-based geochemistry community with data resources to accelerate scientific discovery, Authorea preprint 04/06/2017 DOI: 10.22541/au.149149402.20537981.

Rivera, T.A., 2013. New faculty at a new college. *Foundations*, National Association of Geoscience Teachers Geo2YC Division, v. 2, no. 2, p. 9-10.

Rivera, T.A., Keane, S.M., Owen, D.E., Caress, M.E., 2010. Large scale mapping and new interpretation of the geology in proximity to the visitor center: evidence for a missing cinder cone and refined mapping of volcanic features, Craters of the Moon National Monument and Preserve, Idaho. *Geoscience Information: Making the Earth Sciences Accessible for Everyone* Proceedings of the 2007 Geoscience Information Society Meeting (Denver, CO Oct. 28-31, 2007), p. 67-84. Conference: Geological Society of America 2007 *Abstracts with Programs*, v. 39, no. 6, p. 561. Select items available at <http://www.nps.gov/crmo/naturescience/geologicformations.htm>

Rivera, T.A., 2008, An Explosive Past. An Explosive Future? *Nature Notes*, Zion National Park, v. 7, no. 3, p. 5.

Rivera, T.A., 2008, Fit for a Prince. *Nature Notes*, Zion National Park, v. 7, no. 1, p. 3.

Rivera, T.A., Viskupic, K., 2006. Learning Earth's History through Rocks: Foothills Learning Center Field Trip Guide. Boise, ID

Undergraduate Research Student Supervision

Student	Year(s)	Project	Presentation(s)
² Cole, Kaitlyn	2015	Perceptions of earthquake hazards and preparedness	Westminster College Undergraduate Research Fair. Poster Presentation. April 2015.
¹ Darata, Rachel	2016-2017	Petrochronology and paleomagnetism of post-supereruption rhyolites in the Yellowstone Volcanic Field	<ul style="list-style-type: none"> • GSA Annual Meeting. Denver, Colorado. September 2016. Student volunteer. • GeekFest. Westminster College. September 2016. • GSA Rocky Mountain Section Meeting. Moscow, Idaho. May 2016. Travel grant recipient. • UGR Fair, Westminster College. April 2016.
¹ Furlong, Ryan	2015-	Petrochronology of small-volume rhyolitic eruptions and contributions to a Yellowstone super-eruption.	<ul style="list-style-type: none"> • GSA Annual Meeting. Denver, Colorado. September 2016. Student volunteer. • GeekFest. Westminster College. September 2016. • GSA Rocky Mountain Section Meeting. Moscow, Idaho. May 2016. Travel grant recipient. • UGR Fair, Westminster College. April 2016. • Geek Fest, Westminster College. September 2015.
³ Gardiner, Stephanie	2015-	The Green Canyon Flow and its relationship to the Mesa Falls Tuff caldera-forming eruption	<ul style="list-style-type: none"> • GSA Annual Meeting. Denver, Colorado. September 2016. Student volunteer. • GeekFest. Westminster College. September 2016. • AGU Virtual Poster Showcase. Online. March 2016. *2nd place winner* (http://education.agu.org/undergraduate-students/virtual-poster-showcase/2016-virtual-poster-showcase-winners/)

¹ Henderson, Stacy	2017-		
¹ Vincent, Jaime	2015-	Characteristics of the Lyle Spring Tuff: recycling of earlier Yellowstone eruptions?	<ul style="list-style-type: none"> • GSA Annual Meeting. Denver, Colorado. September 2016. Student volunteer. • GeekFest. Westminster College. September 2016. • IsoAstro Geochronology workshop. Boise, Idaho. August 2016. • GSA Rocky Mountain Section Meeting. Moscow, Idaho. May 2016. • UGR Fair, Westminster College. April 2016.
⁴ Wilcox, Garret ⁵ Coppler, Quentin ⁵ Clements, Kaitlin ⁵ Boyd, Tianna ⁴ Kirk, Makayla	2015-	Earthquake hazards and preparedness efforts along the Wasatch Front, Utah	<ul style="list-style-type: none"> • Westminster College Undergraduate Research Fair. April 2017. • Westminster College Undergraduate Research Fair. April 2016.
¹ Geology major; ² Education major; ³ Chemistry major; ⁴ Geology minor; ⁵ Psychology major			