

Curriculum Vitae – Dr. Steven J. Whitmeyer

Professor
Department of Geology and Environmental Science
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EDUCATION

2004	Ph.D. Earth Sciences	Boston University
1999	B.S. Geology with Honors	University of New Hampshire

PROFESSIONAL EXPERIENCE

2018 – present	Program Director	National Science Foundation, GEO/EAR Tectonics
2016 – present	Professor	James Madison University
2006 – 2018	Field Course Director	James Madison University (Field Course in Ireland)
2010 – 2016	Associate Professor	James Madison University
2005 – 2010	Assistant Professor	James Madison University
2005	Lecturer	Boston University (Field Camp in Ireland)
2004 – 2005	Visiting Scholar	University of Tennessee
2004	Post Doctoral Fellow	University of New Mexico
2000 – 2002	Teaching Fellow	Boston University
1998 – 1999	Teaching Assistant	University of New Hampshire

PROFESSIONAL AWARDS

2017	JMU Research and Scholarship Outstanding Faculty Award
2014, 2015	Finalist – State Council of Higher Education for VA Outstanding Faculty Award
2013	Fellow – Geological Society of America

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Geophysical Union
- Geological Society of America
- Council on Undergraduate Research
- National Association of Geoscience Teachers

ACADEMIC SOCIETY MEMBERSHIPS

- Phi Beta Kappa
- Sigma Xi

EXTERNAL GRANT AWARDS (as PI; dollar amounts to JMU)

2018 – 2019	NSF – EAR/TECTONICS, “Intergovernmental Personal Act (IPA)”, \$148,814.
2017	NSF – EAR/TECTONICS, “EAGER: Evaluating the Accuracy of Digital Compass Measurements on Mobile Devices”, \$36,875.
2015 – 2018	NSF – ICER/IUSE, “GP-EXTRA: Engaging Students in Inclusive Geoscience Field Experiences via Onsite-Remote Partnerships”, \$353,742.

- 2013 – 2018 NSF – DUE/TUES, “Collaborative Research: Google Earth for Onsite and Distance Education (GEODE)”, **\$700,067**.
- 2013 – 2014 Google Inc., “Using Google Earth to Model Geologic Change Through Time”; **\$21,984**, co-PI: Dr. Shelley Whitmeyer
- 2013 – 2014 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock Geologic Mapping of the Northeastern Quarter of the Rileyville 7.5’ Quadrangle, VA in Support of the DGMR I-81 Project”; **\$9,998**.
- 2012 – 2013 USGS - EDMAP, “Bedrock Mapping and Analyses of the Southeastern Quarter of the Rileyville 7.5’ Quadrangle, Virginia”; **\$8,818**.
- 2012 – 2013 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock Geologic Mapping of the Southwestern Quarter of the Rileyville 7.5’ Quadrangle, VA in Support of the DGMR I-81 Project”; **\$9,846**.
- 2012 IRIS (NSF subcontract), “Technology Assistance with Implementation and Operation of Transportable Array Element of USArray and EarthScope: VA-1”; **\$36,231**.
- 2010 – 2014 NSF – DUE/TUES, “Collaborative Research: Scaffolding Undergraduate Geoscience Inquiry Using New Loggable Google Earth Explorations”, **\$130,596**.
- 2010 – 2012 NSF – GEO/ED, “Collaborative Research: Virtual 4-D Field Education in Google Earth”, **\$44,756**.
- 2010 – 2011 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock and Surficial Geologic Mapping of the eastern half of the Luray 7.5” quadrangle, VA in support of the VDGMR I-81 project”; **\$21,647**, co-PI: Dr. Scott Eaton
- 2010 – 2011 USGS - EDMAP, “Bedrock Mapping and Analyses of the Eastern Half of the Luray 7.5’ Quadrangle, Virginia”; **\$18,115**.
- 2008 – 2011 NSF – DUE/CCLI, “Collaborative Research: Enhancing the Geosciences Curriculum Using GeoBrowsers-based Learning Objects”, **\$50,704**.
- 2008 – 2009 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock geologic mapping of the northeastern region of the 7.5” Stanley quadrangle in support of the VDGMR I-81 project”; **\$9,624**.
- 2008 – 2009 USGS - EDMAP, “Bedrock Mapping and Stratigraphic Analyses of Western Regions of the Big Meadows 7.5’ Quadrangle, Virginia”; **\$15,500**.
- 2008 – 2009 NSF – EAR/IF, “Collaborative Research: Geological and Geophysical Data Analysis Using a Virtual Globe”, **\$40,432**.
- 2007 – 2008 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock geologic mapping of the NW quarter of the 7.5” Stanley quadrangle in support of the VDMR I-81 project”; **\$6,305**.
- 2007 – 2008 USGS - EDMAP, “Detailed Bedrock Mapping in the Stanley 7.5’ quadrangle, Valley and Ridge province, Virginia”; **\$8,676**.
- 2006 – 2007 Virginia Dept. of Mines, Minerals & Energy (STATEMAP), “Bedrock and Surficial geologic mapping in conjunction with the VDMR Interstate 81 project”; **\$3,993**.

EXTERNAL GRANT AWARDS (as co-PI)

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- 2011 – 2012 USGS - EDMAP, “Bedrock Mapping of the Southeast Quarter of the Monterey SE 7.5’ Quadrangle, Virginia”; **\$7,378**, co-PI w/ Dr. John Haynes.

2009 – 2010 USGS - EDMAP, “Bedrock Mapping of the North Half of the Williamsville 7.5’ Quadrangle, VA, with a Stratigraphic and Structural Investigation of a Broken Zone in the Marcellus interval of the Millboro Shale”; **\$14,893**, co-PI w/ Dr. John Haynes

INTERNAL (JMU) GRANT AWARDS

2006 JMU Faculty Teaching Grant “Summer Field Geology Course in Western Ireland”; **\$4,000**.

POST-DOCTORAL SCHOLARS SUPERVISED

2014 – 2015 Dr. Mladen Dordevic Web design / content developer for the GEODE project

MASTERS THESES ADVISED

2010 Owen Shufeldt (Univ. New Mexico) “Archean Detrital Zircons in the Proterozoic Vishnu Schist of the Grand Canyon, Arizona: Implications for Crustal Architecture and Nuna Reconstructions”

UNDERGRADUATE SENIOR THESES ADVISED

2009 Nicholas Silvis “Sourcing the Water Feeding Selected Thermal Springs of Bath and Alleghany Counties, Virginia”

2007 Owen Shufeldt “Interactive Scientific Modeling of an Island Arc System: Expanding Geoscience Education”

UNDERGRADUATE RESEARCH PROJECTS ADVISED

2017 – 2018 Patrick DiPasquale & Kayla Sadler “Faulting on the Northwest Limb of the Wills Mountain Anticline – Extensional Faulting in a Compressional Regime”

Sara Lassiter “Making Geologic Field Experiences Accessible”

2016 – 2017 Lauren Roberts “Evaluating the Accuracy of Digital Compass Measurements on Mobile Devices”

2015 – 2017 Melissa Mays “Structure and Stratigraphy of Devonian Shales in McKinney Hollow, Virginia”

2015 – 2016 Tyler Hansen “Designing and Testing Google Earth Tectonics Exercises”

2014 – 2015 Elliott Andelman “Building Tectonic Exercises in Google Earth”

Justin Wood “Bedrock Mapping of the Rileyville Quadrangle, VA”

2013 – 2014 Derek Barry & Will Biggs “Evolution of Geologic Interpretations and Petrography of the Swift Run Formation in Shenandoah National Park, Greene County, Virginia”

Meiz Boozel & Collin Knox “The Stratigraphy and Structural Fabric of the Swift Run Formation in Greene County, Virginia”

Christian Bruchman & Cody Sheaffer “A New Bedrock Geologic Map of the Rileyville Quadrangle in Page and Shenandoah Counties, VA”

Katie McConahy & Timothy Kropp “Surface and Subterranean Mapping Documents a Regionally Significant Alleghanian Thrust System in the Millboro Quadrangle, Bath County, Virginia”

James Shada & Brandon Cohick “Structural Controls on the Method of Eocene Magmatic Intrusion in Blue Grass Valley, Highland County, VA”

2012 – 2013	Meredith Baxter & Ryan Santry	“Bedrock Mapping of the Southern Half of the Rileyville Quadrangle, VA”
	Bethany Meier & Timothy Kropp	“Siting the EarthScope Transportable Array in Virginia and West Virginia”
2011 – 2012	Devon Dilla	“Structural Duplication of the Tuscarora Sandstone in West Virginia”
	Kyle Hazelwood	“Structural Mapping and Analyses In the Monterey SE Quadrangle, VA”
	Catherine Patterson	“Digital Bedrock Mapping and Structural Analyses at White House Farm, Hamburg, Va”
	Michael Tracy	“Detailed Structural Analyses of a Fault Ramp Exposure in Bergton, VA”
2010 – 2011	Jesse Drummond	“Bedrock mapping of the Luray Quadrangle, VA”
2009 – 2010	Natalie Caro & Kim Walsh	“Structural Controls on the Devonian Millboro Shale, Williamsville Quadrangle, Virginia”
	Elizabeth Garman	“Investigating Antietam Breccias near Luray, Virginia”
	Nicholas Pence & Elizabeth Weisbrot	“Design and Evaluation of Google Earth-based Learning Objects in Geoscience Curricula”
2008 – 2009	Mark Cox & Sara Rangel	“Bedrock Mapping of Western Regions of the Big Meadows Quadrangle, Virginia”
	Jeremy Nicoletti & Michael Rivera	“Interactive, Virtual Globe-based Geologic Maps of Field Areas in Western Ireland”
2007 – 2008	Jessica Errico	“Structural controls on the hydrogeology of the Valley and Ridge”
	Joshua Kirby	“Investigating the Stanley fault within the Valley and Ridge of Page Valley, Virginia”
2006 – 2007	David Arnette & Christopher Holland	“Detailed structure and mapping of the Massanutten Synclinorium, Tenth Legion quadrangle, VA”
	Natalia Denda	“The evolution and growth of continental crust”
	Owen Shufeldt & David Stiefel	“3-D interactive educational animations of an island arc system”
2005 – 2006	Daniel Dunlap	“Structural relationships in the Edinburg Limestone Fm. near Stanley, Virginia”

INVITED LECTURES

2018	NSF – EAR Tectonics, NSF – Investing in Diversity
2017	West Virginia University
2016	USGS NCGMP Decadal Strategic Planning Workshop, JMU STEM Education Advisory Council, Summit on the Future of Undergraduate Geoscience Education, Heads & Chairs (UT Austin)
2015	Cutting Edge Workshop: Using Digital Data for Critical Issues in the Undergraduate Classroom, Future Seismic and Geodetic Facility Needs in the Geosciences Workshop (Leesburg, Va)

- 2014 Montana State University, University of Rochester, NSF EHR/DUE, Summit on the Future of Undergraduate Geoscience Education (UT Austin), Appalachian State University
- 2013 EarthScope Southeastern Region Workshop for Interpretive Professionals, Boston College – Weston Observatory
- 2012 VDOT Geotechnical Research Advisory Committee, EarthScope Central Appalachian Region Workshop for Interpretive Professionals, IRIS US Array Siting Workshop, JMU Geology & Environmental Science
- 2011 USGS 3D Modeling and Visualization Webinar Series, VDOT Geotechnical Research Advisory Committee, JMU CIT Google Earth Faculty Showcase
- 2010 NSF Division of Undergraduate Education (DUE), Virginia Polytechnic Institute, JMU STEM / HHS Advisory Council, Virginia Dept. Mines, Minerals & Energy
- 2009 Lafayette College
- 2008 College of William & Mary, Vanderbilt University, JMU College of Science & Mathematics Research Symposium
- 2006 Virginia Dept. of Mines, Minerals & Energy (Division of Mineral Resources)
- 2005 Bloomsburg University, University of Louisiana, James Madison University, Appalachian State University
- 2004 Indiana University of Pennsylvania, Univ. of Tennessee, Univ. of New Mexico

COMMUNITY OUTREACH / PRESENTATIONS

- 2017 Online video presentation for “*Designing Accessible Field-Based Learning in the 2017 NSF STEM for All video Geosciences*”, Atchison, C.L., Marshall, A.M., Showcase: Research & Design Whitmeyer, S.J., Piatek, J.L., Carbajal, I.G., and for Impact, May 15-22 Eriksson, S.C.
<http://videohall.com/p/920>
- 2017 JMU Valley Scholars program Co-leader of field trip to Page Valley
- 2015 JMUSE cafe “Demystifying Science “expert” interviewed during event the Expert”
- 2013-2016 “Peak to the Bay”, Field leader for geologic content; 5th & 7th grade Rockingham County Schools science program
- 2015 JMU “Madison Live” TV Interview on research and AAAS conference
- 2015 Shenandoah Regional Science Fair Judge
- 2014 “North America: Inside Out” Documentary feature for the Discovery Channel
- 2014 EarthScope Representative USA Science and Engineering Festival; Washington, DC
- 2014 EarthScope Interview Series Interview: “EarthScope Scientist – Steve Whitmeyer”
- 2013 The Weather Channel Interview: “A CT scan for the Earth”
- 2013 WHSV television Interview: “Google Grant to Help JMU Teach Geology”
- 2012 EarthScope Representative USA Science and Engineering Festival; Washington, DC
- 2012 WHSV television Interview: “EarthScope Workshop Kicks Off at JMU”
- 2010 Bridgewater Rotary Club Presentation: “Geologic History of the Shenandoah Valley Region”
- 2010 EarthScope Representative USA Science and Engineering Festival; Washington, DC

2010	WXJM radio	Interview on STEM Sell radio show
2008	WHSV television	Interview: “The Valley and Earthquakes”

WORKSHOPS / SHORT COURSES

2018	Co-Leader	“Digital Geology Teaching Tools”; Rocky Mountain - Cordilleran GSA conference, Flagstaff, AZ
2018	Co-Leader	“Google Earth for Onsite and Distance Education”; Structural Geology & Tectonics Forum, Tempe, AZ
2017	Host	Google Geo Teachers Institute, Harrisonburg, VA
2016	Co-Leader	“Synthesizing EarthScope Results to Develop a New Community Model for the 4-D Evolution of North America”; EarthScope Synthesis Workshop, Harrisonburg, VA
2015	Co-Leader	“Digital Geologic Mapping: Flat Map Data Collection with QGIS and Introduction to 3D Mapping Techniques”; National GSA conference, Baltimore, MD
2014	Co-Leader	“Google Mapping Technologies and Digital Devices for the Geosciences”; Northeastern GSA conference, Bretton Woods, NH
2014	Co-Leader	“Digital Mapping and Data Collection for Field Environments”; National GSA conference, Vancouver, BC
2014	Leader	“Designing Classroom Experiences using Google Earth and Related Tools”; James Madison University, Harrisonburg, VA
2014	Panelist	“The Future of Field Camps”; AGU Heads & Chairs Webinar Series
2014	Co-Leader	“Digital Field Methods in Geology”; Northeastern GSA conference, Lancaster, PA
2013	Co-Leader	“Modern Digital Geologic Mapping Techniques”; National GSA conference, Denver, CO
2013	Panelist	“Legal Issues Related to Field Trips and Field Courses: More Questions than Answers”; AGU Heads & Chairs Webinar Series
2013	Co-Leader	“Building Google Earth Geologic Maps and Information Systems for Desktops, Laptops, and Mobile Devices”; Northeastern GSA conference, Bretton Woods, NH
2013	Facilitator	“EarthScope Southeastern Region Workshop for Interpretive Professionals”; College of Charleston, Charleston, SC
2012	Co-Leader	“Design an Effective Field Experience”; National GSA conference, Charlotte, NC
2012	Co-Leader	“Creating Your Own Geological Maps, Models, and Geoscience Learning Resources Using Google Earth”; Southeastern GSA conference, Asheville, NC
2012	Participant	IRIS Transportable Array Siting Workshop; Pittsburgh, PA
2012	Co-Leader	“EarthScope Central Appalachian Region Workshop for Interpretive Professionals”; JMU, Harrisonburg, VA
2012	Co-Leader	“Creating Interactive Maps for Google Earth”; JMU Geospatial Series, Harrisonburg, VA

2011	Breakout Leader	“EarthScope - GeoPRISMS Science Workshop for Eastern North America”; Bethlehem, PA
2011	Co-leader	“Using Google Earth for Visualization and Geologic Mapping”; USGS 3D Modeling and Visualization Webinar Series, Reston, VA
2011	Leader	“Building Google Earth Exercises for Earth & Environmental Science Classes”; JMU Content Teaching Academy, Harrisonburg, VA
2010 – 2011	Co-leader	JMU Center for Instructional Technology Google Earth Sandbox workshops, Harrisonburg, VA
2010	Co-Organizer	“Workshop on Working Towards a National Geoinformatics Community (NGC)”; Denver, CO
2010	Co-Convener	“Cutting Edge: Teaching Geoscience in the Field in the 21 st Century”; Bozeman, MT
2010	Co-Leader	“Creating and Using Interactive Geologic Maps and Models in Google Earth”; Northeastern/Southeastern GSA conference, Baltimore, MD
2009	Co-Leader	“Using Google Earth in Undergraduate Geoscience Education”; National GSA conference, Portland, OR
2009	Leader	“Using 3-D Models in Google Earth to Teach Plate Tectonics and Other Aspects of Geology”; Southeastern GSA conference, Tampa, FL
2009	Co-Leader	“Innovative Geoscience Education Using Tools and Models in Google Earth”; Northeastern GSA conference, Portland, ME
2008	Participant	Slope Stabilization and Rockfall Mitigation workshop; Geobruigg, AEG
2007	Co-Leader	“Google Earth for Earth Science Teachers”; K-12 Teachers program; Northeastern GSA conference, Durham, NH
2005	Participant	Project Kaleidoscope Leadership Seminar “Leadership in Building Interdisciplinary Programs”

FIELD TRIPS

2017	Co-Leader	“Accessible Field Geology in Western Washington: Inclusive Field Trip to Mount St. Helens”; National GSA conference, Seattle, WA
2017	Co-Leader	“Geology of the Blue Ridge Mountains and Associated Geohazards”; 3 rd Annual Env. and Eng. Geology Symposium, Harrisonburg, VA
2015	Co-Leader	“A Billion Years of Deformation in the Central Appalachians: Orogenic Processes and Products”; National GSA conference, Baltimore, MD
2015	Co-Leader	“Stratigraphy of Silurian Sandstones in Western Virginia from Eagle Rock to Bluegrass”; Virginia Geological Field Conference, Natural Bridge, VA
2013	Co-Leader	Pre-Conference Field Trip, GeoHazards Impacting Transportation in Appalachia & ITGAUM Joint Forum, Harrisonburg, Va.
2012	Co-Leader	“Geology of Page Valley: Stratigraphy, Structure, and Landscape Evolution”; Virginia Geological Field Conference, Harrisonburg, VA
2012	Co-Leader	“The Valley & Ridge to Blue Ridge Province Transition in Northern Virginia”; EarthScope Interpretive Workshop, Harrisonburg, VA
2011	Co-Leader	“Geology of the Marcellus Shale – Valley & Ridge Province, Virginia and West Virginia”; AAPG Eastern Section Meeting, Crystal City

2010	Co-Leader	“A Traverse of Proterozoic to Paleozoic Laurentia, Virginia Blue Ridge and Valley and Ridge”; NE-SE GSA conference, Baltimore, MD
2005	Leader	“A Structural Overview of the Sequatchie Anticline” Tennessee GeoConclave 2005

PROPOSAL REVIEWER FOR

- ACS – Petroleum Research Fund, NSF – Arctic Sciences, NSF – DUE TUES, NSF – Earth Cube, NSF – EAR EarthScope, NSF – EAR Geoinformatics, NSF – EAR Instrumentation & Facilities, NSF – EAR Major Research Instrumentation, NSF – EAR Petrology & Geochemistry, NSF – EAR Tectonics

MANUSCRIPT REVIEWER FOR

- Central European Journal of Geosciences, Computers & Geosciences, Engineering Geology, Geocarto International, Geology, Geological Society of America Bulletin, Geological Society of America Special Papers, Geological Society of London Special Volumes, GSA Today, Geosphere, International Journal of Digital Earth, Journal of Earth System Science, Journal of Geography, Journal of Geoscience Education, Journal of South American Earth Sciences, Journal of Structural Geology, Journal of the Virtual Explorer, Oxford Press, Precambrian Research, Southeastern Geology

JOURNALS / BOOKS EDITED

2014 – 2017	Science Editor	GSA Today
2011 – 2012	Co-Editor	GSA Special Paper 492 “Google Earth and Virtual Visualizations in Geoscience Education and Research”
2009 – 2010	Co-Editor	GSA Field Guide 16 “The Mid-Atlantic Shore to the Appalachian Highlands: Field Trip Guidebook for the 2010 Joint Meeting of the NE and SE GSA Sections”
2008 – 2010	Associate Editor	Terra Nova
2008 – 2009	Co-Editor	GSA Special Paper 461 “Field Geology Education: Historical Perspectives and Modern Approaches”
2007	Associate Editor	Geological Society of America Bulletin

OTHER PROFESSIONAL SERVICE AND DEVELOPMENT

2016 – 2018	President	Virginia Geological Field Conference
2014 – 2018	Member	NAGT Field Course Scholarship Committee
2012 – 2018	Delegate	University Consortium for Geographic Information Science
2009 – 2018	Alternate Rep.	Incorporated Research Institutions for Seismology (IRIS)
2017	Session chair	“Something Borrowed, Something New: Integrating EarthScope and Geologic Results to Better Constrain the 4-D Evolution of North America”; AGU Fall Meeting, New Orleans
2017	Session chair	“Folds, Faults, Fractures, & Terranes” Southeastern GSA conference, Richmond, VA
2015 – 2016	Member	Geological Society of America Communications Committee
2015 – 2016	Member	Geological Society of America Publications Committee
2014 – 2016	Vice President	Virginia Geological Field Conference

2016	Discussion leader	“Field Camp for a Technological World”; Earth Educator Rendezvous, Madison, WI
2016	Session chair	“Developing Geocompetancies”; Earth Educator Rendezvous, Madison, WI
2016	Participant	NSF Future Directions in Structural Geology and Tectonics workshop, Madison, WI
2016	Discussion leader	“Digital Teaching Tools: Opportunities and Challenges”; Envisioning the Future of Undergraduate STEM Education: Research and Practice (ENFUSE) Symposium, Washington DC
2015	Session chair	“Digital Technology in Real and Virtual Geoscience Experiences”; National GSA conference, Baltimore, MD
2015	Session chair	“Digital Devices for Fieldwork, Data Analysis, and Geospatial Visualization – Innovative Applications to Undergraduate Education and Authentic Research Experiences Across Geoscience Disciplines”; AGU Fall Meeting, San Francisco
2015	Presenter	Future Seismic and Geodetic Facility Needs in the Geosciences Workshop; Leesburg, VA
2015	Session chair	“Disruptive Technology and Geoscience Education”; Northeastern GSA conference, Bretton Woods, NH
2015	Session organizer	“Geospatial Innovations in Imaging Information Intelligently”; AAAS Annual Meeting, San Jose, CA
2014	Session chair	“A Grand Tour of the World’s Most Important Sites on Google Earth”; National GSA conference, Vancouver, BC
2014	Session chair	“Digital Geology Sandpit (Digital Posters)”; National GSA conference, Vancouver, BC
2014	Participant	US DOE – Energy Education Data Jam; Washington DC
2014	Presenter	Summit on the Future of Undergraduate Geoscience Education Univ. of Texas, Austin
2013 – 2014	Technical Prgm. chair	2014 Southeastern GSA conference, Blacksburg, VA
2013	Session chair	“Innovations in Geoscience Education and Research Using Google Earth and Related Digital Technologies” Northeastern GSA conference, Bretton Woods, NH
2012	Pardee session chair	“Digital Geology Speed-Dating: An Innovative Coupling of Interactive Presentations and Hands-On Workshop (Digital Posters)”; National GSA conference, Charlotte, NC
2012	Session chair	“Dynamic Views of North America from EarthScope-Related Research (Digital Posters)”; National GSA conference, Charlotte, NC
2011	Session chair	“Virtual Reality in Geoscience Education (Digital Posters)”; National GSA conference, Denver, CO
2011	Session chair	“Key Targets for the Future”; EarthScope National Meeting, Austin, TX
2011	Session chair	“EarthScope’s Broader Impacts”; EarthScope National Meeting, Austin, TX

2011	Session chair	“Assessment of Students’ Science Learning in Extra-Classroom Settings”; AAC&U Engaged STEM Learning conference, Miami, FL
2011	Co-Convener	“Google Earth: Visualizing the Possibilities for Geoscience Education and Research”; GSA Penrose conference, GooglePlex, Mountain View, CA
2010 – 2013	Chair	EarthScope Education and Outreach Subcommittee
2010 – 2013	Member	EarthScope Steering Committee
2010 – 2011	Member	EarthScope National Meeting Planning Committee
2010	Session chair	“It All Starts In the Field: In Honor of Wallace A. Bothner” Northeastern/Southeastern GSA conference, Baltimore, MD
2010	Field Trips co-chair	Northeastern/Southeastern GSA conference, Baltimore, MD
2010	Session chair	“Virtual Tectonics”; National GSA conference, Denver, CO
2009	Session chair	“Field Geology Education - Historical Perspectives and Modern Approaches”; National GSA conference, Portland, OR
2008	Session chair	“Structural Geology”, National GSA conference, Houston, TX
2007	Session chair	“The Future of Geoscience Field Courses” National GSA conference, Denver, CO
2007	Session chair	“Google Earth Science: Geological applications of interactive web-based maps”; Northeastern GSA conference, Durham, NH
2005	Coordinator	Tennessee GeoConclave 2005
2004	Editorial Assistant	Geological Society of America Bulletin
2003	Session chair	“Structural Geology II: Deformation Processes” National GSA conference, Seattle, WA
2001	Session chair	“Structural Geology”; National GSA conference, Boston, MA
1999	Participant	NAGT workshop “Preparing Graduate Students for Teaching”

UNIVERSITY AND DEPARTMENTAL SERVICE

2014 – 2018	Chair	Geospatial Technologies Steering Committee
2016 – 2018	Coordinator	Geology and Environmental Science Seminar Series
2012 – 2017	Dept. Representative	James Madison University Faculty Senate
2015 – 2016	Member	Goldberg Scholarship committee
2015 – 2016	Member	Engaged Learning committee
2015 – 2016	Member	Search committee, Dean of the College of Science and Mathematics
2015	Organizer	The Geospatial Symposium, sponsored by the JMU Geospatial Technologies Steering Committee
2014 – 2015	Member	Search committee, tenure-track Geophysicist
2014 – 2015	Member	ISAT/CS & HHS Space Planning Committee
2012 – 2014	Member	Search committee, Vice-Provost for Research and Scholarship
2012 – 2013	Chair	Search committee, tenure-track Engineering Geologist
2010 – 2014	Member	Geospatial Technologies Steering Committee

2009 – 2013	Coordinator	Geology and Env. Science Undergraduate Research Symposium
2009 – 2012	Member	College of Science & Mathematics College Council
2007 – 2010	Member	School of Engineering – Internal advisory committee
2008 – 2009	Faculty Advisor	JMU Geological Association (Geology Club)
2009	Member	Search committee, Director of School of Engineering
2008	Member	Search committee, tenure-track Engineer
2007 – 2008	Member	Search committee, tenure-track Environ. Geologist
2007 – 2008	Member	College of Science & Mathematics College Council
2007	Participant	Standard setting workshop, JMU Center for Assessment and Research Studies (CARS)
2006 – 2007	Member	Search committee, Head of Department of Geology and Environmental Science
2006 – 2007	Dept. Representative	James Madison University faculty senate
2005 – 2008	Coordinator	Geology and Environmental Science Seminar Series

BOOKS, BOUND DOCUMENTS, AND SUPPLEMENTAL MATERIALS (5)

- Huntington, K.W., and Klepeis, K.A., with 66 **community contributors**, 2018, Challenges and opportunities for research in tectonics: Understanding deformation and the processes that link Earth systems, from geologic time to human time. A community vision document submitted to the U.S. National Science Foundation. University of Washington, 84 p., doi: 10.6069/H52R3PQ5.
- De Paor, D.G., **Whitmeyer, S.J.**, and Whitmeyer, S. 2013. Google Earth Exercises as Part of the Supplements Package for de Blij, H.J., Muller, P.O., Burt, J.E., and Mason, J. *Physical Geography* 4th ed., Oxford University Press.
- Whitmeyer, S.J.**, Bailey, J., De Paor, D.G., and Ornduff, T. (eds). 2012. Google Earth and Virtual Visualizations in Geoscience Education and Research, GSA Special Paper 492, 468 p.
- Fleeger, G. and **Whitmeyer, S.J.** (eds). 2010. The Mid-Atlantic Shore to the Appalachian Highlands: Field Trip Guidebook for the 2010 Joint Meeting of the Northeastern and Southeastern GSA Sections, Geological Society of America Field Guide 16, 125 p.
- Whitmeyer, S.J.**, Mogk, D., and Pyle, E.J. (eds). 2009. Field Geology Education: Historical Perspectives and Modern Approaches, GSA Special Paper 461, 356 p.

PEER REVIEWED PUBLICATIONS (30; *undergraduate students in italics*)

- Whitmeyer, S.J.**, Pyle, E.J., Pavlis, T.L., Swanger, W. and *Roberts, L.* 2018. Modern approaches to field data collection and mapping: Digital methods, crowdsourcing, and the future of statistical analyses. *Journal of Structural Geology*, doi: 10.1016/j.jsg.2018.06.023.
- De Paor, D.G., Dordevic, M.M., Karabinos, P., Burgin, S., Coba, F., and **Whitmeyer, S.J.** 2017. Exploring the reasons for the seasons using Google Earth, 3D models, and plots. *International Journal of Digital Earth*, doi: 10.1080/17538947.2016.1239770.
- De Paor, D.G., Dordevic, M.M., Karabinos, P., Tewksbury, B.J., and **Whitmeyer, S.J.** 2016. The fold analysis challenge: A virtual globe-based educational resource. *Journal of Structural Geology*, v. 85, p. 85-94, doi: 10.1016/j.jsg.2016.02.005.
- Dordevic, M. and **Whitmeyer, S.J.** 2015. MaRGEE: Move and rotate Google Earth elements. *Computers & Geosciences*, v. 85, p. 1-9, doi: 10.1016/j.cageo.2015.09.04.

- Dordevic, M., De Paor, D.G., **Whitmeyer, S.J.**, Bentley, C., Whittecar, G.R., and Constants. C. 2015. Puzzles invite you to explore Earth with interactive imagery. *EOS*, v. 96, p. 12-16, doi: 10.1029/2015EO032621.
- Whitmeyer, S.J.**, and De Paor, D.G. 2014. Crowdsourcing Digital Maps Using Citizen Geologists. *EOS*, v. 95, p. 397-399, doi: 10.1002/2014EO440001.
- Whitmeyer, S.J.**, and Mogk, D.W. 2013. Safety and Liability Issues Related to Field Trips and Field Courses. *EOS*, v. 94, p. 349-351, doi: 10.1002/2013EO400002.
- Whitmeyer, S.J.** 2012. Community Mapping in Geology Education and Research: How Digital Field Methods Empower Student Creation of Accurate Geologic Maps. In Kastens, K.A., and Manduca, C.A. (eds) *Earth and Mind II: A Synthesis of Research on Thinking and Learning in the Geosciences*, GSA Special Paper 486, p. 171-174, doi: 10.1130/2012.2486(27).
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