

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

2016 – present	Professor	James Madison University
2006 – present	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 GRANTS (as PI; dollar amounts to JMU)

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 GRANTS (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) GRANTS

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

POST-DOCTORAL SCHOLARS SUPERVISED

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

MASTERS THESES ADVISED

2010 Owen Shufeldt “Archean Detrital Zircons in the Proterozoic Vishnu Schist of
(Univ. New Mexico) 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 “Digital Filtering of Large Field Datasets”
Sara Lassiter “Evaluating Access and Inclusivity in the Field using Mobile
Technologies”
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 & “Evolution of Geologic Interpretations and Petrography of the
Will Biggs Swift Run Formation in Shenandoah National Park, Greene
County, Virginia”
Meiz Boozel & “The Stratigraphy and Structural Fabric of the Swift Run
Collin Knox Formation in Greene County, Virginia”
Christian Bruchman & “A New Bedrock Geologic Map of the Rileyville Quadrangle
Cody Sheaffer in Page and Shenandoah Counties, VA”
Katie McConahy & “Surface and Subterranean Mapping Documents a Regionally
Timothy Kropp Significant Alleghanian Thrust System in the Millboro
Quadrangle, Bath County, Virginia”
James Shada & “Structural Controls on the Method of Eocene Magmatic
Brandon Cohick Intrusion in Blue Grass Valley, Highland County, VA”
2012 – 2013 Meredith Baxter & “Bedrock Mapping of the Southern Half of the Rileyville
Ryan Santry Quadrangle, VA”

2012 – 2013	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

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 the Expert” Science “expert” interviewed during event
- 2013-2016 “Peak to the Bay”, Rockingham County Schools Field leader for geologic content; 5th & 7th grade 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	“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 the Mount St. Helens Region”; National GSA conference, Seattle, WA
2017	Co-Leader	“Geology of the Blue Ridge Mountains and Associated Geohazards”; 3 rd Annual Environmental and Engineering 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 – present	President	Virginia Geological Field Conference
2014 – present	Member	NAGT Field Course Scholarship Committee
2012 – present	Delegate	University Consortium for Geographic Information Science
2009 – present	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 – present	Chair	Geospatial Technologies Steering Committee
2016 – present	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 AND SUPPLEMENTAL MATERIALS (4)

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 (29; *undergraduate students in italics*)

De Paor, D.G., Dordevic, M.M., Karabinos, P., Burgin, S., Coba, F., and **Whitmeyer, S.J.** 2016. 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).
- Whitmeyer, S.J.** and Leslie, S.A. 2012. Book Review “Geological Field Techniques”. *Journal of Geoscience Education*, v. 60, p. 309-310.
- Bailey, J., **Whitmeyer, S.J.**, and De Paor, D.G. 2012. The Application of Google Geo Tools to Geoscience Education and Research. In Whitmeyer, S.J., De Paor, D.G., Bailey, J., and Ornduff, T. (eds) *Google Earth and Virtual Visualizations in Geoscience Education and Research*, GSA Special Paper 492, p. vii-xix, doi: 10.1130/2012.2492(00).
- De Paor, D.G., **Whitmeyer, S.J.**, Marks, M., and Bailey, J. 2012. Geoscience Applications of Client / Server Scripts, Fusion Tables, and Dynamic KML. In Whitmeyer, S.J., De Paor, D.G., Bailey, J., and Ornduff, T. (eds) *Google Earth and Virtual Visualizations in Geoscience Education and Research*, GSA Special Paper 492, p. 77-104, doi: 10.1130/2012.2492(6).
- Shufeldt, O., **Whitmeyer, S.J.**, and Bailey, C.M. 2012. The New Frontier of Interactive, Digital Geologic Maps: Google Earth-Based Multi-Level Maps of Virginia Geology. In Whitmeyer, S.J., De Paor, D.G., Bailey, J., and Ornduff, T. (eds) *Google Earth and Virtual Visualizations in Geoscience Education and Research*, GSA Special Paper 492, p. 147-164, doi: 10.1130/2012.2492(11).
- De Paor, D.G. and **Whitmeyer, S.J.** 2011. Geological and Geophysical Modeling on Virtual Globes Using KML, COLLADA, and Javascript. *Computers and Geosciences*, v. 37, p. 100-110, doi:10.1016/j.cageo.2010.05.003.
- Fichter, L.S., Pyle, E.J., and **Whitmeyer, S.J.** 2010. Expanding Evolutionary Theory Beyond Darwinism with Elaborating, Self-Organizing, and Fractionating Complex Evolutionary Systems. *Journal of Geoscience Education*, v. 58, p. 58-64.
- Fichter, L.S., Pyle, E.J., and **Whitmeyer, S.J.** 2010. Strategies and Rubrics for Teaching Chaos and Complex Systems Theories as Elaborating, Self-Organizing, and Fractionating Evolutionary Systems. *Journal of Geoscience Education*, v. 58, p. 65-85.
- Whitmeyer, S.J.**, *Nicoletti, J.*, and De Paor, D.G. 2010. The Digital Revolution in Geologic Mapping. *GSA Today*, v. 20, p. 4-10, doi: 10.1130/GSATG70A.1.
- De Paor, D.G. and **Whitmeyer, S.J.** 2009. Innovations and Redundancies in Geoscience Field Courses: Past Experiences and Proposals for the Future. In Whitmeyer, S.J., Mogk, D., and Pyle, E.J. (eds) *Field Geology Education: Historical Perspectives and Modern Approaches*, GSA Special Paper 461, p. 45-56, doi: 10.1130/2009.2461(05).
- Whitmeyer, S.J.**, and Mogk, D.W. 2009. Geoscience Field Education: A Recent Resurgence. *EOS*, v. 90, p. 385-386, doi:10.1029/2009EO430001.
- May, C.L., Eaton, L.S., and **Whitmeyer, S.J.** 2009. Integrating student-led research in fluvial geomorphology into traditional field courses: A case study from James Madison University’s field course in Ireland. In Whitmeyer, S.J., Mogk, D., and Pyle, E.J. (eds) *Field Geology Education: Historical Perspectives and Modern Approaches*, GSA Special Paper 461, p. 195-204, doi: 10.1130/2009.2461(17).
- Whitmeyer, S.J.**, Feely, M., De Paor, D.G., Hennessy, R., Whitmeyer, S., *Nicoletti, J.*, *Santangelo, B.*, *Daniels, J.*, and *Rivera, M.* 2009. Visualization Techniques in Field Geology Education: A case study from Western Ireland. In Whitmeyer, S.J., Mogk, D., and Pyle, E.J. (eds) *Field Geology Education: Historical Perspectives and Modern Approaches*, GSA Special Paper 461, p. 105-115, doi: 10.1130/2009.2461(10).

- Whitmeyer, S.J.**, Mogk, D.W., and Pyle, E.J. 2009. An Introduction to historical perspectives on and modern approaches to Field Geology Education. In Whitmeyer, S.J., Mogk, D., and Pyle, E.J. (eds) *Field Geology Education: Historical Perspectives and Modern Approaches*, GSA Special Paper 461, p. vii-x, doi: 10.1130/2009.2461(00).
- Whitmeyer, S.J.** 2008. Dating fault fabrics using modern techniques of $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology: evidence for Paleozoic deformation in the Eastern Sierras Pampeanas, Argentina. In: (ed.) De Paor, D., *Making Sense of Shear (In honour of Carol Simpson)*, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, v. 30, paper 3, doi: 10.3809/jvirtex.2008.00207.
- Whitmeyer, S.J.** and Karlstrom, K.E. 2007. Tectonic model for the Proterozoic growth of North America. *Geosphere*, 3, p. 220–259, doi: 10.1130/GES00055.1.
- Karlstrom, K.E., **Whitmeyer, S.J.**, Williams, M.L., Bowring, S., and Jessup, M.J. 2007. Does the arc-accretion model adequately explain the Paleoproterozoic evolution of southern Laurentia? An expanded interpretation: Comment. *Geology*, p. e143, doi: 10.1130/G23971C.1.
- Whitmeyer, S.J.**, Fichter, L.S., and Pyle, E.J. 2007. New directions in Wilson Cycle concepts: Supercontinent and Tectonic Rock Cycles. *Geosphere*, 3, p. 511-526, doi: 10.1130/GES00091.1.
- Karlstrom, K.E., **Whitmeyer, S.J.**, Dueker, K., Williams, M.L., Levander, A., Humphreys, E.D., Keller G.R. and the CD-ROM Working Group. 2005. Synthesis of results from the CD-ROM experiment: 4-D image of the lithosphere beneath the Rocky Mountains and implications for understanding the evolution of continental lithosphere. In: Karlstrom, K.E. and Keller, G.R. (eds.) *The Rocky Mountain Region -- An Evolving Lithosphere: Tectonics, Geochemistry, and Geophysics*. AGU Monograph, 154, p. 421-442.
- Whitmeyer, S.J.** and Wintsch, R.J. 2005. Reaction localization and softening of texturally-hardened mylonites in a reactivated fault zone, central Argentina. *Journal of Metamorphic Geology*, 23, p. 411-424.
- Whitmeyer, S.J.** and Simpson, C. 2004. Regional deformation of the Sierra de San Luis, Argentina: Implications for the Paleozoic development of western Gondwana. *Tectonics*, 23, TC1005, p. 1-16, doi: 10.1029/2003TC001542.
- Whitmeyer, S.J.** and Simpson, C. 2003. High strain-rate deformation fabrics characterize a kilometers-thick Paleozoic fault zone in the Eastern Sierras Pampeanas, central Argentina. *Journal of Structural Geology*, 25, p. 909-922.
- Simpson, C., **Whitmeyer, S.J.**, De Paor, D.G., Gromet, L.P., Miro, R., Krol, M.A. and Short, H. 2001. Sequential ductile through brittle reactivation of major fault zones along the accretionary margin of Gondwana in Central Argentina. In: Holdsworth, R.E., Strachan, R.A., Macloughlin, J.F. & Knipe, R.J. (eds.) *The Nature and Tectonic Significance of Fault Zone Weakening*. Geological Society, London, Special Publications, 186, p. 233-254.

FIELD TRIP GUIDES (6; Peer reviewed)

-
- Haynes, J.T., Diecchio, R.J., and **Whitmeyer, S.J.** 2015. Stratigraphy of Silurian Sandstones in Western Virginia from Eagle Rock to Bluegrass. 45th Annual Virginia Geological Field Conference Guidebook, 48 p.
- Whitmeyer, S.J.**, Bailey, C.M., and Spears, D.B. 2015. A billion years of deformation in the central Appalachians: Orogenic processes and products. In Brezinski, D.K., Halka, J.P., and Ortt, R.A. Jr. (eds.) *Tripping from the Fall Line: Field Excursions for the GSA Annual Meeting*, Baltimore, 2015: Geological Society of America Field Guide 40, p. 11-34, doi:10.1130/2015.0040(02).

- Haynes, J.T., Johnson, E.A., and **Whitmeyer, S.J.** 2014. Active features along a “passive” margin: The intriguing interplay between Silurian-Devonian stratigraphy, Alleghanian deformation, and Eocene magmatism of Highland and Bath Counties, Virginia. in Bailey, C.M., and Coiner, L.V., eds., *Elevating Geoscience in the Southeastern United States: New Ideas about Old Terranes: Field Guides for the GSA Southeastern Section Meeting*, Blacksburg, Virginia, 2014: Geological Society of America Field Guide 35, p. 1-40, doi:10.1130/2014.0035(01).
- Enomoto, C.B., Coleman, J.L., Haynes, J.T., **Whitmeyer, S.J.**, McDowell, R.R., Lewis, J.E. Spear, T.P., and Swezey, C.S. 2012. Geology of the Devonian Marcellus Shale – Valley & Ridge Province, Virginia and West Virginia – A Field Trip Guidebook for the American Association of Petroleum Geologists Eastern Section Meeting, September 28-29, 2011. USGS Open-File Report 2012-1194, 55 p., available only at <http://pubs.usgs.gov/of/2012/1194/>.
- Whitmeyer, S.J.**, Fichter, L.S., Diecchio, R.J., Heller, M.J., Eaton, L.S., Cross, A., Coiner, L., Biggs, T., and Patterson, C.R. 2012. Geology of Page Valley: Stratigraphy, Structure, and Landscape Evolution. 42nd Annual Virginia Geological Field Conference Guidebook, 63 p.
- Fichter, L.S., **Whitmeyer, S.J.**, Bailey, C.M., and Burton, W. 2010. Stratigraphy, Structure, and Tectonics: An East to West Transect of the Blue Ridge and Valley and Ridge Provinces of Northern Virginia and West Virginia. In Fleeger, G.M. and Whitmeyer, S.J. (eds) *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, p. 103-125, doi: 10.1130/2010.0016(05).

GEOLOGIC MAPS *(5; undergraduate students in italics)*

- Whitmeyer, S.J.**, *Butler, M.E.*, Biggs, T.H., Spears, D.B., Heller, M., Mann, M.F., *Santry, R.*, Heller, M.J., Witt, A.C., and Rodriguez, M.A. 2014. Geologic map of the Rileyville quadrangle, Virginia. Virginia Division of Geology and Mineral Resources, 1:24,000-scale geologic map.
- Drummond, J.*, Shufeldt, O.P., and **Whitmeyer, S.J.** 2011. Bedrock geologic map of the Luray quadrangle, Virginia. Virginia Div. of Geo. and Min. Res., 1:24,000-scale geologic map.
- Heller, M. and **Whitmeyer, S.J.** 2009. Bedrock geologic map of the Tenth Legion quadrangle, Virginia. Virginia Division of Geology and Mineral Resources, 1:24,000-scale geologic map.
- Whitmeyer, S.J.**, and *Kirby, J.* 2009. Bedrock geologic map of the Stanley quadrangle, Virginia. Virginia Division of Geology and Mineral Resources, 1:24,000-scale geologic map.
- Bogdanova, S.V., Li, Z.X., Pisarevsky, S.A., Collins, A.S., DeWaele, B., Kampuzu, A.B., Milesi, J-P., Jacobs, J., Fitzsimmons, I.C.W., Myers, J.S., Hand, M., Pease, V., Ernst, R.E., Henriksen, N., Thrane, K., Pandit, M., Davidson, T., Karlstrom, K., **Whitmeyer, S.J.**, Lu, S., Hao, G., Natapov, L.M., Vernikovskiy, V.A., Gladkochub, D.P., Fuck, R., Brito-Neves, B.B., Schobbenhaus, C., and Niu, G. 2008. The geodynamic map of Rodinia. In: Li, Z.X., et al. *Assembly, configuration, and break-up history of Rodinia: a synthesis*, *Precambrian Res.*, doi:10.1016/j.precamres.2007.04.021

PUBLISHED ABSTRACTS *(139; undergraduate students in italics)*

- Collins, T., Crompton, H., Marshall, A.M., **Whitmeyer, S.**, Atchison, C.L., Pyle, E.J., Carabajal, I.G., Piatek, J.L., Eriksson, S.C. 2017. Investigating models of technology-enhanced group work on an inclusive international field trip. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-303984.
- Crompton, H., Collins, T., **Whitmeyer, S.**, Atchison, C.L., Piatek, J.L., Pyle, E.J., Eriksson, S.C., Marshall, A.M., Carabajal, I.G. 2017. Using mobile technologies to develop inclusive geology field experiences for students with mobility disabilities. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-301561.

- Haddock, A., Thatcher, S., O'Brien, M., Vinson, G., Todd, A.C., Pritchard, C.E., Sullivan, B., Miller, L.Z., Thomas, C., Kilpack, W., Morris, M., **Whitmeyer, S.**, Atchison, C.L. 2017. Differences between traditional and digital field notebooks for inclusive geosciences courses. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-304839.
- Marshall, A.M., Atchison, C.L., Collins, T., Crompton, H., Pyle, E.J., **Whitmeyer, S.**, Carabajal, I.G. 2017. Historical context and evaluation of engagement in technology-based approaches to accessible geoscience field learning. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-306413.
- Piatek, J.L., **Whitmeyer, S.**, Atchison, C., Marshall, A.M., Pyle, E.J., Eriksson, S.C., Crompton, H., Collins, T., Carabajal, I.G. 2017. Fostering inclusion and interest in geoscience courses using panoramic and 3D visualizations. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-306713.
- Roberts, L.C., Pyle, E.J., **Whitmeyer, S.J.**, Pavlis, T.L. 2017. The advent of digital compasses: Statistical evaluation and comparison with analogue compasses. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-304567.
- Simpson, C., De Paor, D., **Whitmeyer, S.** 2017. Twenty years of technological innovation in an international capstone field course. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-297866.
- Thatcher, S., Vinson, G., Haddock, A., Todd, A.C., O'Brien, M., Pritchard, C.E., Sullivan, B., Miller, L.Z., Thomas, C., Kilpack, W., Morris, M., **Whitmeyer, S.**, Atchison, C.L. 2017. Student perspectives on wireless communication technologies to facilitate inclusion in field activities. *GSA Abstracts with Programs*, v.49, no.6, doi: 10.1130/abs/2017AM-304912.
- Atchison, C.L., **Whitmeyer, S.J.**, Piatek, J.L., Marshall, A.M., Carabajal, I.G., Pyle, E.J., De Paor, D.G., and Eriksson, S.C. 2016. Expanding access to field-based learning through the use of mobile technologies and mixed-ability student grouping. *GSA Abstracts with Programs*, v.48, no.7.
- De Paor, D.G., **Whitmeyer, S.J.**, Crompton, H., and Dordevic, M. 2016. Smart mobs in the field: Harnessing the global brain for geological mapping. *GSA Abstracts with Programs*, v.48, no.7.
- Piatek, J.L., Thomas, C., Todd, A.C., Pritchard, C.E., Morris, M., **Whitmeyer, S.J.**, Atchison, C.L., Eriksson, S.C., Marshall, A.M., Carabajal, I.G., and Pyle, E.J., 2016. Virtual field trips as gateways to field-based experiences in geoscience and preservice education courses. *GSA Abstracts with Programs*, v.48, no.7.
- Whitmeyer, S.J.**, Pyle, E.J., De Paor, D.G., Atchison, C.L., Bentley, C., and Piatek, J.L. 2016. Digital technologies that enhance teaching and learning in classroom and field environments. *GSA Abstracts with Programs*, v.48, no.7.
- De Paor, D., **Whitmeyer, S.**, Bentley, C., and Dordevic, M. 2016. Location and visualization—the keys to geological education and research. 35th International Geological Congress, Cape Town, South Africa, August 27-September 4.
- Whitmeyer, S.J.**, and De Paor, D.G. 2016. Innovation and obsolescence in geology field mapping, ca. 2016. USGS National Cooperative Geologic Mapping Program Decadal Strategic Planning Workshop, Denver, CO, August 9-11.
- Whitmeyer, S.J.**, De Paor, D.G., and Bentley, C. 2016. Interactive, web-based geoscience education resources. Earth Educator Rendezvous, Madison, WI, July 17-22.
- Whitmeyer, S.J.**, Bentley, C., and De Paor, D.G. 2016. Interactive digital learning for geoscience students: EarthQuiz and other web-hosted challenges. Envisioning the Future of Undergraduate STEM Education: Research and Practice (ENFUSE) Symposium, Washington DC, April 27-29.

- De Paor, D.G., **Whitmeyer, S.J.**, Bentley, C., and Richards, B. 2016. A suite of interactive, web-based resources for geoscience education. *GSA Abstracts with Programs*, v.48, no.6.
- Hansen, T., Swanger II, W., Whitmeyer, S.J.*, and Dordevic, M. 2016. Using Google Earth to investigate plate tectonics and the breakup of Pangaea. *GSA Abstracts with Programs*, v.48, no.3.
- De Paor, D.G., **Whitmeyer, S.J.**, and Bentley, C. 2016. Cesium – A virtual globe with strong potential applications in geoscience education. *GSA Abstracts with Programs*, v.48, no.2.
- Flowers, R.M., Arrowsmith, R.A., Hole, J.A., Pavlis, T.L., Wagner, L., **Whitmeyer, S.J.**, and Williams, M.L. 2015. Geology, Geochronology, and EarthScope: The EarthScope AGeS Program and a new idea for a 4D Earth Initiative. *EOS Transactions AGU*, v.96, Fall Meeting Supplement, Abstract ID#60505.
- De Paor, D.G., **Whitmeyer, S.J.**, and GEODE. 2015. Reaching the next generation of college students via their digital devices. *EOS Transactions AGU*, v.96, Fall Meeting Supplement, Abstract ID#73179.
- De Paor, D.G., **Whitmeyer, S.J.**, Bentley, C., and Team GEODE. 2015. Interactive digital learning for geoscience students: EarthQuiz and other web-hosted challenges. *GSA Abstracts with Programs*, v.47, no.7.
- Pyle, E.J. and **Whitmeyer, S.J.** 2015. Paper or plastic?: A comparison of student mapping performance using traditional and digital methods. *GSA Abstracts with Programs*, v.47, no.7.
- Whitmeyer, S.J.**, De Paor, D.G., and Pavlis, T.L. 2015. Digital technology in the classroom and the field: Cognitive affordances and hindrances. *GSA Abstracts with Programs*, v.47, no.7.
- Navarrete, L., Ebinger, C., Horowitz, F., and **Whitmeyer, S.** 2015. Crustal structure of northeastern North America from constrained models of potential field data. *EarthScope National Meeting*, June 14-17, Stowe, Vermont.
- Whitmeyer, S.J.** 2015. Visualizing the geology of the Virginia Appalachians, AEG-BWH Spring Symposium, April 18, 2015, Harrisonburg, Va.
- Andelman, E.*, Dordevic, M.M., and **Whitmeyer, S.J.** 2015. Pangaea breakup revisited: A new web interface for student inquiry. *GSA Abstracts with Programs*, v.46, no.3.
- Dordevic, M.M., De Paor, D., **Whitmeyer, S.J.**, Bentley, C., and Whittecar, R. 2015. Learning about the Earth in an interactive Google Maps / Street View / photo sphere / GigaPan challenge – the Magical Geology Mystery Tour! *GSA Abstracts with Programs*, v.46, no.3.
- De Paor, D., **Whitmeyer, S.J.**, Dordevic, M.M., Karabinos, P., Tewksbury, B.J., and Whittecar, R. 2015. The Structural Geology Mapping Challenge: An evolving tool for inline geoscience education. *GSA Abstracts with Programs*, v.46, no.3.
- De Paor, D., **Whitmeyer, S.**, Bentley, C., and Dordevic, M. 2014. Google Earth grand tour themes. *EOS Transactions AGU*, v.95, Fall Meeting Supplement, Abstract ED42B-04.
- De Paor, D., Dordevic, M., **Whitmeyer, S.**, Constants, C., and Whittecar, R. 2014. Using Google Street View panoramic imagery for geoscience education. *EOS Transactions AGU*, v.95, Fall Meeting Supplement, Abstract ED53B-3482.
- Pyle, E.J. and **Whitmeyer, S.J.** 2014. Multiple dimensions of assessment in field course exercises: The development of rubrics for valid and reliable assessment. *GSA Abstracts with Programs*, v.46, no.6.
- Whitmeyer, S.J.** and De Paor, D.G. 2014. Using wearable technologies for collaborative fieldwork. *GSA Abstracts with Programs*, v.46, no.6.

- De Paor, D.G., **Whitmeyer, S.J.**, Bentley, C., Burgin, S., and Coba, Fillis. 2014. A Google Earth-based grand tour of the most important geoscience localities on Earth and other planets. *GSA Abstracts with Programs*, v.46, no.6.
- Dordevic, M.M., De Paor, D.G., and **Whitmeyer, S.J.** 2014. Geologic mapping in Google Earth: Tools and challenges. *GSA Abstracts with Programs*, v.46, no.6.
- Whitmeyer, S.J.**, Feely, M., Henry, T., Pyle, E.J., Baedke, S.J., Eaton, L.S., Haynes, J.T., Johnson, E.J., Leslie, S.A., and May, C.L. 2014. Why Ireland? Analyzing an international field experience on its tenth anniversary. *GSA Abstracts with Programs*, v.46, no.6.
- Fichter, L.S. and **Whitmeyer, S.J.** 2014. Integrating structure, stratigraphy and tectonics in undergraduate BA and BS curricula. *GSA Abstracts with Programs*, v.46, no.3, p.87.
- Butler, M., Sheaffer, C., Bruchman, C., Mann, M., Biggs, T., and Whitmeyer, S.* 2014. A new bedrock geologic map of the Rileyville quadrangle in Page and Shenandoah counties, Virginia. *GSA Abstracts with Programs*, v.46, no.3., p.14.
- McConahy, K.M., Kropp, T.A., Haynes, J.T., and Whitmeyer, S.J.* 2014. Surface and subterranean mapping documents a regionally significant Alleghanian thrust system in the Millboro quadrangle, Bath county, Virginia. *GSA Abstracts with Programs*, v.46, no.3, p.30.
- Shada, J.M., Johnson, E.A., Whitmeyer, S.J., and Cohick B.* 2014. Structural controls on the method of Eocene magmatic intrusion in Blue Grass valley, Highland county, Virginia. *GSA Abstracts with Programs*, v.46, no.3, p.30.
- De Paor, D.G., **Whitmeyer, S.J.**, and Bentley, C. 2013. An inverse MOOC model: Small virtual field geology classes with many teachers. *EOS Transactions AGU*, v.94, Fall Meeting Supplement, Abstract ED11B-0726.
- De Paor, D.G., **Whitmeyer, S.J.**, and Bentley, C. 2013. Google Earth for onsite and distance learning (GEODE). *GSA Abstracts with Programs*, v.45, no.7, p.148.
- Kropp, T.A., McConahy, K.M., Haynes, J.T., and Whitmeyer, S.J.* 2013. Mapping of probable Alleghanian thrust faults with the use of stratigraphic analysis in the Millboro quadrangle, Bath county, Virginia. *GSA Abstracts with Programs*, v.45, no.7, p.808.
- Malinconico, L.L., Pavlis, T., and **Whitmeyer, S.J.** 2013. Modern digital field methods: Equipment, software, techniques. *GSA Abstracts with Programs*, v.45, no.7, p.368.
- Mogk, D.W. and **Whitmeyer, S.J.** 2013. Geoscience field instruction: Mapping the future. *GSA Abstracts with Programs*, v.45, no.7, p.733.
- Whitmeyer, S.J.** and Pavlis, T. 2013. Fundamental changes in field education: The digital revolution. *GSA Abstracts with Programs*, v.45, no.7, p.734.
- Whitmeyer, S.J.** 2013. Digital mapping methods: Modern technology from outcrop to publication, *GeoHazards Impacting Transportation in Appalachia & ITGAUM Joint Forum*, July 30 – August 1, 2013, Harrisonburg, Va.
- Bailey, J.E., De Paor, D.G., Ornduff, T., and **Whitmeyer, S.J.** 2013. Google Earth Engine: A potential game changer. *GSA Abstracts with Programs*, v.45, no.1, p.110.
- Butler, M., Mann, M., Santry, R., Biggs, T., and Whitmeyer, S.* 2013. A preliminary bedrock geologic maps of the southern half of the Rileyville quadrangle in Page and Shenandoah counties, Virginia. *GSA Abstracts with Programs*, v.45, no.1, p.74.
- Whitmeyer, S.** and Patterson, C.R. 2013. Building tectonic reconstructions in Google Earth using a new toolkit to move and rotate polygons. *GSA Abstracts with Programs*, v.45, no.1, p.109.

- De Paor, D.G., **Whitmeyer, S.J.**, and Bailey, J.E. 2012. Development of Visualizations and Loggable Activities for the Geosciences. Results from Recent TUES Sponsored Projects. EOS Transactions AGU, v.93, Fall Meeting Supplement, Abstract ED21C-0720.
- Hazelwood, K.*, Lambert, R., *Cole, S.*, Haynes, J.T., and **Whitmeyer, S.J.** 2012. New insights into the stratigraphy and structure of the Siluro-Devonian section on Bullpasture Mountain as revealed by bedrock mapping in the Monterey SE quadrangle, Highland County, Virginia. GSA Abstracts with Programs, v.44, no.4, p.9.
- Patterson, C.*, and **Whitmeyer, S.J.** 2012. Thrust faulting and crustal shortening in the Blue Ridge footwall: An example from the White House farm, Page Valley, VA. GSA Abstracts with Programs, v.44, no.4, p.9.
- Tracy, M.*, and **Whitmeyer, S.J.** 2012. Structural analyses of a re-exposed roadcut near Bergton, VA: Using modern imaging techniques to re-evaluate deformation. GSA Abstracts with Programs, v.44, no.4, p.9.
- Patterson, C.R.* and **Whitmeyer, S.J.** 2012. A New Geologic Map of Greater Page County, Virginia: Compiled and Digitized Using ArcGIS. GSA Abstracts with Programs, v.44, no.7, p.256.
- Pavlis, T.L. and **Whitmeyer, S.J.** 2012. Digital Field Work: Equipment, Methods, and Our Experience. GSA Abstracts with Programs, v.44, no.7, p.235.
- Meier, B., *Steele, P.*, *Kropp, T.*, Bailey, C., and **Whitmeyer, S.J.** 2012. Student-Led Siting of the EarthScope Transportable Array: A Mid-Atlantic Perspective. GSA Abstracts with Programs, v.44, no.7, p.570.
- Whitmeyer, S.J.**, Karlstrom, K.E., and Meier, B. 2012 Using Google Earth and virtual 4-D animations for tectonic reconstructions. GSA Abstracts with Programs, v.44, no.7, p.428.
- De Paor, D.G., and **Whitmeyer, S.J.** 2011. Transforming Undergraduate Geoscience Education with an Innovative Google Earth-based Curriculum. EOS Transactions AGU, v.92, Fall Meeting Supplement, Abstract ED24B-06.
- Haynes, J.T., *Cole, S.*, Lambert, R.A., Lucas, P.C., Leslie, S.A., **Whitmeyer, S.J.**, and Rose, T.R. 2011. Petrology of stromatoporoid-coral framestones and rudstones in the upper Keyser formation (Silurian) of the Water Sinks area, Highland County, Virginia. AAPG Eastern Section (Crystal City, VA) Abstracts.
- Haynes, J.T., *Hoge, A.K.*, Lambert, R.A., Lucas, P.C., **Whitmeyer, S.J.**, and Rose, T.R. 2011. Stratigraphy and petrology of sandstones in the Keefer, McKenzie, Williamsport, Tonoloway, and Keyser formations (Silurian) of the Valley and Ridge Province in Highland County, Virginia. AAPG Eastern Section (Crystal City, VA) Abstracts.
- Shufeldt, O.P., **Whitmeyer, S.J.**, and Bailey, C.M. 2011. A Collaborative Prototype Multi-Level Geologic Map of Virginia Using Google Earth, Digital Mapping Techniques '11 Conference, May 22-25, 2011, Williamsburg, Va.
- Whitmeyer, S.J.**, Shufeldt, O.P., and Bailey, C.M. 2011. A Prototype Multi-Level Geologic Map of Virginia Using Google Earth, Virginia Department of Mines, Minerals and Energy, Division of Geology and Mineral Resources Symposium.
- De Paor, D.G., and **Whitmeyer, S.J.** 2011. Enhancing Virtual Field Experiences with New Models and Methods. GSA Abstracts with Programs, v.43, no.1, p.102.
- Drummond, J.*, Shufeldt, O.P., and **Whitmeyer, S.J.** 2011. The Valley and Ridge to Blue Ridge Province Transition Near Luray, Virginia: Geologic Map & Cataclastic Breccias. GSA Abstracts with Programs, v.43, no.1, p.116.

- Haynes, J.T., and **Whitmeyer, S.J.** 2011. Contrast in Deformational Styles Within the Silurian – Devonian Sequence, Valley and Ridge Province, Highland County, Virginia. GSA Abstracts with Programs, v.43, no.1, p.141.
- Haynes, J.T., *Hoge, A.K., Morris, C.M.*, and **Whitmeyer, S.J.** 2011. Stratigraphy, Facies Changes, and Petrology of Sandstones in the Silurian Sequence of the Valley and Ridge Province in Highland and Bath Counties, Virginia. GSA Abstracts with Programs, v.43, no.1, p.135.
- Whitmeyer, S.J.**, De Paor, D.G., Gobert, J., *Pence, N., Weisbrot, E.* 2011. Enhancing the Geoscience Curriculum Using Geo-browser Based Learning Objects. Transforming Undergraduate Education in STEM: Making and Measuring Impacts, 2011 CCLI/TUES Principal Investigators (PIs) Conference, January, 2011, Washington, DC.
- Shufeldt, O.P., and **Whitmeyer, S.J.** 2011. Improving the Accessibility of Virginia Geology Using Google Earth: A Template for Future Collaboration. GSA Penrose Conference: Google Earth: Visualizing the Possibilities for Geoscience Education and Research, Mountain View, CA.
- Whitmeyer, S.J.**, Gundersen L.C., Walker, J.D., Allison, M.L., Babaie, H.A., Cervato, C., Fils, D., Richard, S.M., Arrowsmith, R. 2010. New Initiatives in the Development of a National Geoinformatics Community. EOS Transactions AGU, v.91, Fall Meeting Supplement, Abstract ED22A-04.
- De Paor, D.G., **Whitmeyer, S.J.**, Bailey, J.E., Schott, R.C., Treves, R. 2010. Real Students and Virtual Field Trips. EOS Transactions AGU, v.91, Fall Meeting Supplement, Abstract ED22A-08.
- Haynes, J.T., *Porter, S.E.*, Lucas, P.C., Lambert, R.A., Rose, T.R., Leslie, S.A., **Whitmeyer, S.J.** 2010. Reservoir Potential of Calcareous Sandstones in a Carbonate and Evaporitic Tidal Flat Sequence: Silurian Tonoloway Formation, Highland County Virginia. AAPG Eastern Section (Kalamazoo, MI) Abstracts.
- Whitmeyer, S.J.** 2010. Creating Advanced Elements for Interactive Geologic Maps in Google Earth Using an HTML-based Toolkit. GSA Abstracts with Programs, v.42, no.5, p.421.
- De Paor, D.G., and **Whitmeyer, S.J.** 2010. The Next Phase of the Google Earth Science Revolution. GSA Abstracts with Programs, v.42, no.5, p.419.
- Dordevic, M.M., De Paor, D.G., **Whitmeyer, S.J.**, and Beebe, M.R. 2010. Animated COLLADA Models and Virtual Field Trips Featuring Volcanism in Various Tectonic Settings on Planet Earth and Other Rocky Planets and Moons. GSA Abstracts with Programs, v.42, no.5, p.420.
- Caro, N., Walsh, K.*, Walker, S., **Whitmeyer, S.**, and Haynes, J. 2010. Analyses of Deformed Zones in the Millboro Shale, Highland County, VA: Implications for Alleghanian Tectonics. GSA Abstracts with Programs, v.42, no.1, p.91.
- De Paor, D.G., **Whitmeyer, S.J.**, and Beebe, M.R. 2010. Enhancing Virtual Geological Field Trips with Virtual Vehicles and Virtual Specimens. GSA Abstracts with Programs, v.42, no.1, p.98.
- Haynes, J.T., Rose, T.R., Goggin, K.E. **Whitmeyer, S.J.**, and *Walker, S.M.*, 2010. Petrography and Micropore Systems of Mudcracks, Concretions, Nodules, and Ash from Devonian Shales in Highland and Bath Counties, Virginia. AAPG 2010 Annual Convention & Exhibition (ACE) Abstracts, p.42. **Vincent E. Nelson Memorial Award for Best Poster*
- Pence, N., Weisbrot, E.*, **Whitmeyer, S.**, De Paor, D., and Gobert, J. 2010. Using Google Earth for Advanced Learning in the Geosciences. GSA Abstracts with Programs, v.42, no.1, p.115.
- Rangel, S., Cox, M.*, and **Whitmeyer, S.** 2010. An analysis of quartz breccias associated with the Blue Ridge Thrust system: Big Meadows quadrangle, Virginia. GSA Abstracts with Programs, v.42, no.1, p.86.

- Walker, S.M., Haynes, J.T., Lucas, P.C., Lambert, R., and Whitmeyer, S.J.* 2010. Correlation of Sandstones and Flat-Pebble Conglomerates in Carbonates of the Tonoloway and Keyser Formations (Silurian-Devonian), Highland and Bath Counties, Virginia, and a Revised Interpretation of the Principal Cave-Forming Stratigraphic Horizons. *GSA Abstracts with Programs*, v.42, no.1, p.108.
- Whitmeyer, S.J.**, De Paor, D.G., and Feely, M. 2010. The Evolution of Field Mapping and Data Collection: From Paper to Digital and Beyond. *GSA Abstracts with Programs*, v.42, no.1, p.98.
- De Paor, D.G., **Whitmeyer, S.J.**, and Gobert, J. 2009. Development, Deployment, and Assessment of Dynamic Geological and Geophysical Models Using the Google Earth APP and API: Implications for Undergraduate Education in the Earth and Planetary Sciences. *EOS Transactions AGU*, v.90(52), Fall Meeting Supplement, Abstract ED53E-07.
- Eaton, L.S., Baedke, S.J., Haynes, J.T., Johnson, E.A., Leslie, S.A., Pyle, E.J., **Whitmeyer, S.J.**, and Whitmeyer, S. 2009. Dueling Topics: Success Using a Two Track Option in the James Madison University Ireland Field Course. *GSA Abstracts with Programs*, v.41, no.7, p.534.
- Whitmeyer, S.J.**, De Paor, D.G., *Nicoletti, J., Pence, N., and Weisbrot, E.* 2009. Building Interactive Geologic Maps In Google Earth. *GSA Abstracts with Programs*, v.41, no.7, p.599.
- De Paor, D.G., and **Whitmeyer, S.J.** 2009. One Map – Many Mappers: Implications of Innovative Mapping, Modeling, and Networking Technologies for Geoscience Education. *GSA Abstracts with Programs*, v.41, no.7, p.165.
- Dordevic, M.M., De Paor, D.G., and **Whitmeyer, S.J.** 2009. Understanding Volcanism on Terrestrial Planets and Moons using Virtual Globes and Collada Models. *GSA Abstracts with Programs*, v.41, no.7, p.260.
- Selkin, P.A., De Paor, D.G., Gobert, J., Kirk, K.B., Kluge, S., Richard, G.A., and **Whitmeyer, S.J.** 2009. Emerging Digital Technologies for Geoscience Education and Research. *GSA Abstracts with Programs*, v.41, no.7, p.165.
- Haynes, J.T., *Walker, S.M., Whitmeyer, S.J.*, and Goggin, K.E. 2009. What came first: Folding, faulting, and fracturing in the Devonian Needmore and Marcellus Shales of Highland County, Virginia. *AAPG Eastern Section (Evansville, IN) Abstracts*.
- De Paor, D.G., **Whitmeyer, S.**, Santangelo, B., Daniels, J., *Nicoletti, J., and Rivera, M.* 2009. Migrating from ArcGIS to Google Earth: Challenges and Opportunities for makers of Geologic Maps. *GSA Abstracts with Programs*, v.41, no.3, p.99.
- Nicoletti, J., Rivera, M., Whitmeyer, S., and De Paor, D.* 2009. Creating Visual Aids and Interactive Geologic Maps Using Virtual Globes. *GSA Abstracts with Programs*, v.41, no.1, p.32.
- Rangel, S., Cox, M., and Whitmeyer, S.* 2009. Rethinking the Blue Ridge – Valley and Ridge Interface: The Stanley Fault as a Late Alleghanian Thrust Array. *GSA Abstracts with Programs*, v.41, no.1, p.32.
- Whitmeyer, S.**, Heller, M., *Kirby, J., Rangel, S., Cox, M., and Holland, C.* 2009. A New Appreciation of Out-of-Sequence Thrusts and Extensional Faulting In Page Valley, Virginia, Based on Recent 1:24,000-Scale Mapping. *GSA Abstracts with Programs*, v.41, no.1, p.32.
- De Paor, D.G., **Whitmeyer, S.J.**, and Gobert, J. 2008. Emergent Models for Teaching Geology and Geophysics Using Google Earth, *EOS Transactions AGU*, v.89(53), Fall Meeting Supplement, Abstract ED31A-0599.
- Whitmeyer, S.J.**, De Paor, D., Daniels, J., *Nicoletti, J., Rivera, M., Santangelo, B.* 2008. A Pyramid Scheme for Constructing Geologic Maps on Geobrowsers, *EOS Transactions AGU*, v.89(53), Fall Meeting Supplement, Abstract ED52A-04.

- Whitmeyer, S.J.**, De Paor, D., *Nicoletti, J., Rivera, M., Santanglo, B., Daniels, J.* 2008. Cross-disciplinary Undergraduate Research: A Case Study in Digital Mapping, western Ireland. EOS Transactions AGU, v.89(53), Abstract IN41B-1140.
- De Paor, D., and **Whitmeyer, S.J.** 2008. Geologic Models and Paleogeographic Restorations on Virtual Globes. Scientific Applications for Google Earth Conference, Ann Arbor, Michigan, Oct.22-23.
- De Paor, D., Simpson, C., and **Whitmeyer, S.J.** 2008. Deconstructing Classical Geologic Maps using Google Earth's Keyhole Markup Language. GSA Abstracts with Programs, v.40, no.6, p.348.
- Fichter, Lynn S., **Whitmeyer, S.J.**, Pyle, E.J. 2008. Earth Systems Do Not Evolve to Equilibrium. GSA Abstracts with Programs, v.40, no.6, p.213.
- Whitmeyer, S.J.** and De Paor, D.G., 2008. Large-scale Emergent Cross Sections of Crustal Structures in Google Earth. GSA Abstracts with Programs, v.40, no.6, p.189.
- De Paor, D., and **Whitmeyer, S.J.** 2008. Geological maps as relational databases. GSA Abstracts with Programs, v.40, no.2.
- Kirby, J.B., Shufeldt, O.P., and Whitmeyer, S.J.* 2008. New Interpretation of the Late Alleghenian Stanley Fault System within the Valley and Ridge of Page County, Virginia. GSA Abstracts with Programs, v.40, no.4, p.12.
- Shufeldt, O.P., Kirby, J.B., and Whitmeyer, S.J.* 2008. Structural Complexities and Deformational History of the Blue Ridge and Valley and Ridge Boundary Region, Page Valley, Virginia. GSA Abstracts with Programs, v.40, no.4, p.27.
- Whitmeyer, S.J.**, Heller, M.J., *Kirby, J., Rangel, S., Holland, C., and Shufeldt, O.* 2008. A New Appreciation of Out-of-Sequence Thrusts and Extensional Faulting in Page Valley, Based On Recent 1:24,000-Scale Mapping, Virginia Department of Mines, Minerals and Energy, Division of Geology and Mineral Resources Symposium.
- Denda, N.J., and Whitmeyer, S.J.* 2007. The evolution and growth of continental crust. GSA Abstracts with Programs, v.39, no.6, p.245.
- De Paor, D., and **Whitmeyer, S.J.** 2007. Field course syllabus reform: What students really need to learn. GSA Abstracts with Programs, v.39, no.6, p.623.
- Eaton, L.S., May, C.L., Moore, K.R., Harris, M.J., and **Whitmeyer, S.J.** Integrating student-led research in environmental geology into traditional field courses: A case study from James Madison University's field course in Ireland. GSA Abstracts with Programs, v.39, no.6, p.622.
- Heller, M.J., **Whitmeyer, S.J.**, *Holland, C., Arnette, D., Carter, M.W., and Coiner, L.V.* 2007. Southeast-directed backthrusting and crustal thickening in the Massanutten synclinorium, Rockingham and Page counties, Virginia. GSA Abstracts with Programs, v.39., no.2, p.13.
- Hennessey, R., Feely, M., and **Whitmeyer, S.J.** 2007. Teaching geology field courses: A west of Ireland experience. GSA Abstracts with Programs, v.39, no.6, p.547.
- Karlstrom, K.E., **Whitmeyer, S.J.**, Williams, M.L., Bowring, S.A., and Jessup, M.J., 2007, Arc-accretion model for the Paleoproterozoic evolution of southern Laurentia: Ores and Orogenesis, a symposium honoring the career of William R. Dickinson, Tucson Arizona: Arizona Geological Society, p. 57-58.
- Shufeldt, O.P., Stiefel, D.S., Fichter, L.S., Pyle, E.J., and Whitmeyer, S.J.* 2007. Interactive scientific modeling of an island arc system: Expanding geoscience education. GSA Abstracts with Programs, v.39, no.1, p.62.
- Whitmeyer, S.J.**, De Paor, D.G., and Sharma, A. 2007. Innovative Google Earth visualizations of the Appalachian – Caledonian orogeny in eastern North America and western Ireland. GSA Abstracts with Programs, v.39, no.1, p.42.

- Harris, M.J., Whitmeyer, S., Kelly, S., **Whitmeyer, S.J.**, Feely, M., and Eaton, L.S. 2006. Digital mapping and 3D visualization in a geology summer field course. *GSA Abstracts with Programs*, v.38, no.7, p.425.
- Whitmeyer, S.J.** 2006. The Iapetus cycle: Laurentia-Gondwana interactions from the breakup of Rodinia to the assembly of Pangaea. *GSA Abstracts with Programs*, v.38, no.3, p.21.
- Whitmeyer, S.J.**, Fichter, L.S., and Pyle, E.J. 2006. 3D and 4D animations in geoscience education: Moving towards an interactive environment. *GSA Abstracts with Programs*, v.38, no.7, p.325.
- Whitmeyer, S.J.**, Pyle, E.J., and Fichter, L. 2006. No rock is accidental: An interactive interface to enhance student understanding of tectonic systems and characteristic rock types. *GSA Penrose Conference "Unlocking Three-Dimensional Earth Systems – Harnessing New Digital Technologies to Revolutionize Multi-Scale Geologic Models"*, Durham, U.K.
- Johnston, S., **Whitmeyer, S.J.**, and De Paor, D. 2005. New developments in digital mapping and visualization as part of a capstone field geology course. *GSA Abstracts with Programs*, v.37, no.7, p.145.
- Karlstrom, K.E., and **Whitmeyer, S.J.** 2005. Progressive Proterozoic growth of southern Laurentia: long-lived (1.8 to 1.0 Ga) accretionary orogen resulting in a distinctive style of hydrated, thick, and weak continental lithosphere. *GSA Abstracts with Programs*, v.37, no.7, p.494.
- Karlstrom, K.E., and **Whitmeyer, S.J.** 2005. Progressive Proterozoic growth of southern Laurentia: new map and linked databases. *IGCP 440 Rodinia conference*, July 16-19, Perth, Australia.
- Whitmeyer, S.J.**, and Karlstrom, K.E. 2005. Proterozoic growth and evolution of southern Laurentia: visualization and interpretation by digital paleomaps. *GSA Abstracts with Programs*, v.37, no.7, p.417.
- Whitmeyer, S.J.**, and Karlstrom, K.E. 2005. Proterozoic growth and stabilization of continental lithosphere: southern Laurentia as a key type section. *Earthscope National Meeting*, March 28-31, Santa Anna Pueblo, New Mexico.
- Karlstrom, K.E., **Whitmeyer, S.J.**, and Jessup, M. 2005. Proterozoic rocks of the Southwest: episodic crustal growth, long-lived (1.8 to 1.0 Ga) plate margin along southern Laurentia, and preservation of Proterozoic subduction scars in the modern-day lithosphere. *GSA Abstracts with Programs*, v.37, p.41.
- Karlstrom, K.E., and **Whitmeyer, S.J.** 2004. 4-D images of the lithosphere beneath the Rocky Mountains and challenges for understanding the evolution of continental lithosphere. *GSA Abstracts with Programs*, v.36, no.5, p.116.
- Karlstrom, K.E., and **Whitmeyer, S.J.** 2004. Progressive Proterozoic growth of southern Laurentia by magmatic stabilization of lithosphere, and preservation of Proterozoic suture scars in the modern-day lithosphere. *Lithoprobe Celebratory Conference*, Oct. 15-17, Ontario, Canada.
- Whitmeyer, S.J.**, and Karlstrom, K.E. 2004. Progressive Proterozoic growth of southern Laurentia by magmatic stabilization of lithosphere. *GSA Abstracts with Programs*, v.36, no.5, p.404.
- Whitmeyer, S.J.**, and Karlstrom, K.E. 2004. Progressive Proterozoic growth of southern Laurentia by magmatic stabilization of lithosphere. *Rocky Mountain Earthscope Workshop 1*, Sept. 15-18, Albuquerque, New Mexico.
- Karlstrom, K.E., **Whitmeyer, S.J.**, Williams, M.L. and Davidson, A. 2004. Tectonic map of Laurentia within Rodinia. *32nd International Geologic Conference*, Florence, Italy.
- Whitmeyer, S.J.** and Simpson, C. 2003. The Early Paleozoic orogenic sequence of western Gondwana: evidence from the Sierra de San Luis, central Argentina. *Terrane Processes at the Pacific Margin of Gondwana (TAPMOG) Conference*, Cambridge, U.K., p.39.

- Whitmeyer, S.J.** and Simpson, C. 2003. Early Paleozoic tectonism of the western margin of Gondwana and its relationship to the tectonics of Eastern Laurentia. *GSA Abstracts with Programs*, v.35, no.3, p.97.
- Whitmeyer, S.J.**, Wintsch, R.P. and Simpson, C. 2003. Reaction localization leads to strain localization and softening in reactivated mylonitic rocks. *GSA Abstracts with Programs*, v.35, no.7, p.605.
- Wintsch, R.P., Attenoukon, M.B., **Whitmeyer, S.J.**, Aleinikoff, J.N., Kunk, M.J. and Simpson, C. 2003. Aqueous dissolution-precipitation as a link between microstructure, petrology, and rheology. *GSA Abstracts with Programs*, v.35, no.7, p.90.
- Whitmeyer, S.J.** 2002. Early Paleozoic assembly of western Gondwana: evidence from the Sierra de San Luis, central Argentina. *GSA Abstracts with Programs*, v.34, p.375.
- De Paor, D.G. and **Whitmeyer, S.J.**, 2002, Use of Macromedia Flash for Lecture Presentations and Virtual Labs. Teaching Technology Expo, Boston University.
- Simpson, C. and **Whitmeyer, S.J.** 2002. Transition from strain partitioning to general shear in ultramylonites below the brittle-ductile transition. *GSA Abstracts with Programs*, v.34, p.327.
- Gromet, L.P., Simpson, C., Miro, R. and **Whitmeyer, S.J.** 2001. Apparent truncation and juxtaposition of Cambrian and Ordovician arc-accretionary complexes, Eastern Sierras Pampeanas, Argentina. *GSA Abstracts with Programs*, v.33, p.A-155.
- Simpson, C., **Whitmeyer, S.J.** and Miro, R. 2001. Sillimanite-grade ultramylonites define a terrane suture, Central Argentina. Deformation Mechanisms, Rheology and Tectonics 2001 Conference, Noordwijkerhout, The Netherlands, p.149.
- Whitmeyer, S.J.**, Simpson, C., Miro, R. and Gromet, L.P. 2001. High temperature, high strain-rate fabrics define a major ductile shear zone in the Eastern Sierras Pampeanas, Argentina. *GSA Abstracts with Programs*, v.33, p.A-325.
- Krol, M.A., **Whitmeyer, S.J.** and Simpson, C. 2000. $^{40}\text{Ar}/^{39}\text{Ar}$ dating of ductile shear zones in the Sierras Pampeanas, central Argentina: implications for the Middle Paleozoic tectonic evolution of the paleo-pacific Gondwana margin. *GSA Abstracts with Programs*, v.32, p.A-506.
- Simpson, C., Krol, M., Short, H., **Whitmeyer, S.** and Miro, R. 2000. Sequential ductile through brittle reactivation of major fault zones along the accretionary margin of Gondwana in central Argentina. The Nature and Tectonic Significance of Fault Zone Weakening Joint Conference (Geological Society of London, Geological Society of America), March 7-9, 2000.
- Whitmeyer, S.J.**, Allen, R. and Allard, S.T. 1999. Estimating mode by powder X-ray diffraction: an analysis of granitic sills in southeastern New Hampshire. *GSA Abstracts with Programs*, v.31, p.A-79.