

Anita M. (Stone) Marshall

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Citizenship: United States, Choctaw Nation of Oklahoma

A. PROFESSIONAL PREPARATION

- Ph.D. *Geology*, University of South Florida, Tampa, Spring 2018. Research areas: Geoscience Education and Volcano Geophysics. *Dissertation*: "Evaluation of Academic and Social Engagement in a Technology-Based Collaborative Approach to Inclusive Geoscience Field Learning".
- M.S. *Geology*, University of Arkansas, Fayetteville, 2005. *Thesis*: "Establishing a Land Subsidence Observation Network Using Static and Kinematic GPS in the Grand Prairie Agricultural Region of Eastern Arkansas".
- B.S. *Earth Science*, University of Arkansas, Fayetteville, May 2001

B. ACADEMIC/PROFESSIONAL APPOINTMENTS

- 2012-2018: Adjunct Instructor and Teaching Assistant, University of South Florida, Tampa, FL. Instructor of Record: Physical Geology, Introduction to Earth Science. Teaching Assistant: Geophysics Field Camp, Geology for Engineers, Intro to Oceanography.
- 2015-2018: Research Assistant, NSF GEOPATH project: "Engaging Students in Inclusive Field Experiences via Onsite and Remote Partnerships" (Award # 1540652)
- 2006-2012: Geology Instructor, Northwest Arkansas Community College, Bentonville, AR. Developed and taught Physical Geology lecture/lab hybrid course.
- 2001-2005: Graduate Research Assistant, University of Arkansas, Fayetteville, AR. Research work in GPS geodesy in the Caribbean and eastern Arkansas.

C. PUBLICATIONS

Refereed Articles

- Carabajal, I.G., Marshall, A.M., & Atchison, C.L., 2017. A synthesis of instructional strategies in geoscience education literature that address barriers to inclusion for students with disabilities. *Journal of Geoscience Education*, DOI: 10.5408/16-211.1.
- Marshall, A., Connor, C., Kruse, S., Malservisi, R., Richardson, J., Courtland, L., Connor, L., Wilson, J. and Karegar, M.A., 2015. Subsurface structure of a maar-diatreme and associated tuff ring from a high-resolution geophysical survey, Rattlesnake Crater, Arizona. *Journal of Volcanology and Geothermal Research*.

George, O.A., McIlrath, J., Farrell, A., Gallant, G., Tavarez, S., Marshall, A., McNiff, C., Njoroge, M., Wilson, J., Connor, C.B., Connor, L., and Kruse, S., 2015. High-Resolution Ground-Based Magnetic Survey of a Buried Volcano: Anomaly B, Armargosa Desert, NV. *Statistics in Volcanology* 1.1: 3.

Conference Presentations (* indicates invited presentations)

*Panelist, 2018. "Navigating a Career in STEM" Women in STEM Research Symposium, Knoxville, TN.

*Marshall, A., 2017. Union Session Panel "Creating Inclusive and Diverse Field and Lab Environments within the Geosciences". American Geophysical Union Fall Meeting, New Orleans, LA.

Marshall, A., Atchison, C.L., Collins, T., Crompton, H., Pyle, E., Whitmeyer, S., Carabajal, I., 2017. Historical Context and Evaluation of Engagement in a Technology-based Approach to Accessible Geoscience Field Learning. Geologic Society of America Annual Meeting, Seattle, WA.

Marshall, A., Fieldwork in the Geosciences: Formats, Social Climates, and the Impact on Students with Disabilities. GSA South Central Regional Meeting, Richmond, VA

Atchison, C.L., Whitmeyer, S.J., Piatek, J.L., Marshall, A.M., Carabajal, I.G., Pyle, E.J., De Paor, D. and Eriksson, S.C., 2016. Expanding Access to Field-Based Learning Through the use of Mobile Technologies and Mixed-Ability Student Grouping (Invited Presentation), Geologic Society of America, Denver, CO.

Piatek, J.L., Thomas, 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, Geologic Society of America Annual Meeting, Denver, CO.

Marshall, A., Kruse, S., Macorps, E., and Charbonnier, S., 2015. Ground Penetrating Radar and Magnetic Investigations of Phreatomagmatic Tephra Rings, San Francisco Volcanic Field, Northern Arizona, Preliminary Results. Poster, American Geophysical Union Fall Meeting, San Francisco, CA.

Marshall, A., Kruse, S., Connor, C., Malservisi, R., 2014. High Resolution Geophysical Surveys and Modelling to Improve Understanding of the maar-diatreme and surrounding Tuff Ring at Rattlesnake Crater, SFVF, Arizona. 5th International Maar Conference, Queretaro Mexico.

Marshall, A., Kruse, S., Connor, C., Connor, L., Abdollahzadeh, M., Harburger, A., Richardson, J., Courtland, L., Farrell, A. and Kiflu, H., 2013. High Resolution Magnetic and Gravity Surveys to Constrain Maar Geometry and Eruption Mechanisms, Rattlesnake Crater, Arizona, AGU Fall Meeting Abstracts, pp. 2831.

Kruse, S., McNiff, C., Marshall, A., Courtland, L., Connor, C., Charbonnier, S., Abdollahzadeh, M., Connor, L., Farrell, A. and Harburger, A., 2013. Scoria Cone and Tuff Ring Stratigraphy Interpreted from Ground Penetrating Radar, Rattlesnake Crater, Arizona, AGU Fall Meeting Abstracts, pp. 2835.

Marshall, A., “Karst-The Movie”: Applying the Creative Talents of College Students to Topics in General Geology. 2010 mid-south GSA Meeting, Branson, MO

Multimedia productions:

[The IAGD in Ireland: Exploring Approaches to Inclusive Field Geology](#). 2017. IAGD YouTube Channel

[Accessible Arizona and the IAGD Foundation](#). 2017. IAGD YouTube Channel.

[Designing Accessible Field-Based Learning Experiences in the Geosciences](#). 2017. Co-written with Atchison, C.L., NSF STEM for All Video Showcase.

D. AWARDS, ACTIVITIES & MEMBERSHIPS

Awards & Honors

- 2018 USF Richard A. Davis Fellowship for Outstanding Geoscience Graduate Student
- 2017 People’s choice award, NSF STEM for All Video Competition, 2017
- 2017 Honorable mention, USF Provost’s Award for Outstanding Teaching by a Graduate Assistant
- 2011 National Society of Leadership and Success Award of Excellence in Teaching
- 2008 NWA Community College “Halls of Excellence” Mentorship Award
- 2001-2003 Benjamin Franklin Lever Diversity Fellowship, University of Arkansas

Synergistic Activities & Professional Development

- 2018 Content contributor, [ADVANCEGeo](#) website.
- 2016-now Executive Councilor & digital media development team, The International Association for Geoscience Diversity (www.theIAGD.org)
- 2017 Rising Leadership Academy, USBLN National Conference, Orlando, FL
- 2014-2016 President, USF Geology Graduate Student Organization (GGSO).
- 2013-2015 GGSO Education and Community Outreach & Education Coordinator

Active Memberships

Geologic Society of America, American Geophysical Union, American Indian Science and Engineering Society

E. RESEARCH & TRAVEL GRANTS

- 2017 GSA Geoscience Education Division Travel Award
- 2016 On To The Future award recipient, Geology Society of America
- 2015 GSSI/AGU Near Surface Geophysics Group Student Research Grant (\$2,000)
- 2015 Tharp Award USF School of Geosciences internal grant (\$500)
- 2014 Student Travel Award, 5th Intl. Maar Conference, Queretaro, Mexico
- 2013 Geological Society of America Student Research Grant (\$950)
- 2013 Graduate Student Travel Grant, American Geophysical Union

F. DISSERTATION COMMITTEE

Dr. Jeff Ryan, University of South Florida

Dr. Chris Atchison, University of Cincinnati
Dr. Ping Wang, University of South Florida
Dr. Laura Collins, University of South Florida
Supervisor for volcano geophysics research: Dr. Sarah Kruse