

Erin Nicole DiMaggio

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Education

- 2013 - Ph.D., Geological Sciences, Arizona State University
- 2007 - M.S., Geological Sciences, Arizona State University
- 2004 - B.S., Geological Sciences, University of Michigan

Appointments

- 2014 - present: Research Associate, Department of Geosciences, Pennsylvania State University
- 2013 - 2014: Adjunct Assistant Professor, Department of Geology, Occidental College

Research Interests

- Geologic context of human evolution in Africa
- Extensional tectonics and sedimentary basin development
- Geochronology and tephrostratigraphy of explosive volcanic deposits

Fellowships

- 2013 - ASU Summer Ph.D. Student Research Award
- 2012 - ASU Graduate College Dissertation Fellowship
- 2010 - 2012 NASA/ASU Space Grant Fellowship
- 2009 - NSF Graduate STEM Fellowship in GK-12 Education
- 2004 - 2006 - ASU Graduate Scholar Fellowship
- 2002 - NASA Undergraduate Student Research Program at JPL/Caltech
- 2001 - Research Training Program: Smithsonian National Museum of Natural History

Grants and Awards

- 2013 - GeoPRISMS Student Prize Honorable Mention for AGU Oral Presentation
- 2011 - Society for Sedimentary Geology (SEPM) Student Research Grant from the John Sanders Fund
- 2011 - Philanthropic Education Organization (P.E.O.) Scholar Award (*\$15,000 award*)
- 2010 - GeoPRISMS Implementation Workshop: Outstanding Poster Presentation
- 2010 - American Assoc. of Petroleum Geologists (AAPG) Foundation Arthur A. Meyerhoff Memorial Grant
- 2009 - Geological Society of America (GSA) Student Research Grant
- 2009 - ASU School of Earth and Space Exploration Comprehensive Exam Proposal Award
- 2009 - ASU Graduate and Professional Student Association JumpStart Research Grant
- 2008 - ASU Graduate and Professional Student Association Travel Grant
- 2007 - ASU Faculty Women's Association Certificate of Distinguished Achievement
- 2004 - University of Michigan Camp Davis Field Geologist Award

Teaching Experience

- spring 2014 - Sedimentology and Stratigraphy (GEO 315; Occidental College)
- spring 2014 - Introductory Geology (GEO 105; Occidental College)

fall 2013 - Geology Field Methods (GEO 225; Occidental College; co-taught)
2013 - 2014 - Introductory Geology Lab (GEO 105; Occidental College)
2004 - 2005 - Introductory Geology Lab (GLG 103; ASU)

Professional Affiliations

American Geophysical Union, Geological Society of America

Publications

- DiMaggio, E.N.**, Arrowsmith, J.R., and Campisano, C.J., (in prep.), Depositional environments and tephrostratigraphy of the youngest (<2.9 Ma) Hadar Formation in southern Afar, Ethiopia (for submission to the Journal of African Earth Sciences).
- DiMaggio, E.N.**, 2013, The geologic history of central and eastern Ledi-Geraru, Afar Depression, Ethiopia [Ph.D. dissertation]: Arizona State University, 555 p.
- DiMaggio, E.N.**, Campisano, C.J., Arrowsmith, J.R., Reed, K.E., Swisher, C.C., III, and Lockwood, C.A., 2008, Correlation and stratigraphy of the BKT-2 volcanic complex in west-central Afar, Ethiopia, *in* Quade, J., and Wynn, J.G., eds., The Geology of Early Humans in the Horn of Africa: Geological Society of America Special Paper 446, doi: 10.1130/2008.2446(07).
- Roman, D.C., Campisano, C.J., Quade, J., **DiMaggio, E.N.**, Arrowsmith, J.R., and Feibel, C., 2008, Composite tephrostratigraphy of the Dikika, Gona, Hadar, and Ledi-Geraru project areas, northern Awash, Ethiopia, *in* Quade, J., and Wynn, J.G., eds., The Geology of Early Humans in the Horn of Africa: Geological Society of America Special Paper 446, doi: 10.1130/2008.2446(05).
- Dupont-Nivet, G., Sier, M., Campisano, C.J., Arrowsmith, J.R., **DiMaggio, E.**, Reed, K., Lockwood, C., Franke, C., and Hüsing, S., 2008, Magnetostratigraphy of the eastern Hadar Basin (Ledi-Geraru research area, Ethiopia) and implications for hominin paleoenvironments, *in* Quade, J., and Wynn, J.G., eds., The Geology of Early Humans in the Horn of Africa: Geological Society of America Special Paper 446, doi: 10.1130/2008.2446(03).
- DiMaggio, E.N.**, 2007, Volcanic and stratigraphic characterization of Pliocene tephra from the Ledi-Geraru region of Afar, Ethiopia [MS. thesis]: Arizona State University, 120 p.
- Golombek, M.P., Haldemann, A.F.C., Forsberg-Taylor, N.K., **DiMaggio, E.N.**, Schroeder, R.D., Jakosky, B.M., Mellon, M.T., and Matijevic, J.R., 2003, Rock size-frequency distributions on Mars and implications for Mars Exploration Rover landing safety and operations: Journal of Geophysical Research-Planets., 108(E12), 8086 doi:10.1029/2002JE002035.

Recent Conference Abstracts

- DiMaggio, E.N., Arrowsmith, J.R., Campisano, C.J., and Deino, A., 2013, Tephrochronology of rare Plio-Pleistocene fossiliferous strata in south-central Afar, Ethiopia., Abstract T13G-03 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- DiMaggio, E.N., Arrowsmith, J.R., Campisano, C.J., Reed, K., and Deino, A., 2012, Late Pliocene - Early Pleistocene geologic history of Eastern Ledi-Geraru, Ethiopia: implications for the evolution of the southern Afar Depression and hominin paleoenvironments, Abstract T52B-02 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec. (*invited*)
- DiMaggio, E.N., 2011, SciNews: Incorporating Science Current Events in 21st Century Classrooms, Abstract ED51A-0743 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- DiMaggio, E.N., Campisano, C.J., Arrowsmith, J.R., Reed, K., and Deino, A., 2011, Ar Radiometric Ages of Rare Plio-Pleistocene strata for Interpreting Basin Evolution and Hominin Paleoenvironments in Southern Afar: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 336.
- DiMaggio, E.N., 2010, Incorporating Science News Into Middle School Curricula: Current Events in the 21st Century Classroom: EOS Trans. Fall Meet. Suppl., Abstract ED21C-0692.