

Curriculum Vitae

Nicholas D. Deardorff, Ph.D

Associate Professor
Indiana University of Pennsylvania
Department of GeoSciences

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Education

- 2011 **Doctor of Philosophy** - Geology, University of Oregon, Eugene, OR.
Dissertation: "Eruptive Processes of Mafic Arc Volcanoes- Subaerial and Submarine Perspectives" (advisor: Kathy Cashman)

- 2003 **Bachelor of Science** - Marine Science and Geology (with Honors in Geology),
University of Miami, Coral Gables, FL. Honors Thesis: "Volatiles in Indian Ocean
Mid-Ocean Ridge Basaltic Glasses: Contamination of the Indian Ocean Mantle by
Hydrated or Dehydrated Crustal Components." (advisor: Jackie Dixon)

Appointments

- 2018-present **Associate Professor**, Indiana University of Pennsylvania
- 2013-2018 **Assistant Professor**, Indiana University of Pennsylvania
- 2012-2013 **Assistant Professor**, University of Minnesota, Duluth, MN
- 2011-2012 **Assistant Professor**, University of Minnesota, Morris, MN
- 2005-2011 **Graduate Teaching Fellow**, University of Oregon, Eugene, OR

Awards and Honors

- 2008 Staples Fellowship, Dept. of Geological Sciences, University of Pennsylvania

- 2018 IUP University Senate Research Comm. award for research on the effect of composition on timescales and tephra through heating experiments: 2017 (Portland, OR Aug. 13-19)

- 2016 IUP University Senate Research Comm. award for research on the characterization of lava flow surface features through field and laboratory analyses.

- 2014 PASSHE Faculty Professional Development Award for research on Investigation of Lava Flow Textures in the field and laboratory

- 2014 IUP University Senate Research Comm. award for research on the characterization of dominant wavenumbers in the field and laboratory

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- Lidar and Discrete Fourier Transform analyses: Presentation at the AGU Fall Meeting 2014 (San Francisco, CA Dec. 14-19)
- 2012 Grand-In-Aid, University of Minnesota, Duluth (\$33,438- award was declined due to accepting position at Indiana Univ. of PA)
- 2008 USGS, Kleinman Volcano Research Grant
- 2006 National Center for Airborne Laser Mapping, NSF funded Seed Grant for Airborne Laser Swath Mapping

Professional Development

- 2014 Cutting Edge Early Career Geoscience Faculty Workshop- Covered efficient and effective teaching practices, developing a thriving research program, getting tenure, and life/work balance(June 22-26, University of Maryland, College Park, MD)
- 2014 *DeSSC (Deep Submergence Science Committee) New User Program*- workshop introduced the UNOLS deep submergence assets and submersibles used in marine research and focused on steps and tips on how to get funding to use these assets. (Dec. 13-14, 2014 San Francisco, CA)

Publications (Students underlined)

Manuscripts in preparation

Barber, M., **Deardorff, N.**, Using Lidar reflective intensities to characterized lava flow surface morphologies

Published

Deardorff, N., Booth, A., Cashman, K., 2019. Remote characterization of dominant wavelengths from surface folding on lava flows using Lidar and Discrete Fourier Transform analyses. *Geochemistry, Geophysics, Geosystems*. DOI: 10.1029/2019GC008497.

Deardorff, N., Branan, Y., Lewis, J., Tindall, S., Straffin, E., Hovan, S., 2019. Consensus from Workshop: Building an Inclusive Geology Field Camp for the Pennsylvania State System of Higher Education (Jan. 3-4, 2019)-White Paper. March 8, 2019.

Deardorff, N., Cashman, K., 2017. Rapid crystallization during recycling of basaltic andesite tephra: timescales determined by reheating experiments." *Scientific Reports* 7
DOI: [10.1038/srep46364](https://doi.org/10.1038/srep46364)

Schnur, S., Chadwick, W., Embley, R., Ferrini, V., de Ronde, C., Cashman, K., **Deardorff, N.**, Merle, S., Dziak, R., Haxel, J., Matsumoto, H., 2017. A decade of volcanic construction and destruction at the summit of NW Rota-1 seamount: 2004–2014." *Journal of Geophysical Research: Solid Earth* 122.3: 1558-1584.

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Cashman KV, Soule SA, Mackey BH, Deligne NI, **Deardorff** ND, Dieterich HR, 2013. How Lava Flows: New Insights from Applications of Lidar Technologies to Lava Flow Studies. *Geosphere*. Vol. 9: 6.

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Analytical/Field Equipment and Software Experience

Microprobe, Scanning Electron Microscope,