

CURRICULUM VITAE

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Education

Massachusetts Institute of Technology, Cambridge, MA, USA

- Bachelor of Science (S.B.) in Mathematics, June 1999
- Bachelor of Science (S.B.) in Physics, Sept. 1999;
Thesis: *The Spitzer Mass Stratification Instability in Dense Star Clusters*
- Master of Science (S.M.) in Earth & Planetary Sciences, Jan. 2000;
Thesis: *Digital Reconstruction of Fossil Morphologies, Nama Group, Namibia*
- Doctor of Philosophy (Ph.D.) in Planetary Science and Planetary Geophysics, Dept. Earth, Atmospheric & Planetary Sciences (EAPS); Defense date: Dec. 11, 2008;
Thesis: *Hypervelocity Impacts and the Evolution of Planetary Surfaces and Interiors*

Published articles

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Abstracts

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- Fassett, C. I., W.A. Watters, C.B. Hundal,* M. Zanetti. (2020) Spatial Variation in Erosion Rates in Mars Equatorial Regions Inferred from Ejecta Retention of 1-3 Km Diameter Craters. *Lunar and Planetary Science Conference*, vol. 51 (abstract posted, conference canceled).
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- Watters, W. A., M. T. Zuber, and B. H. Hager (2003), Thermal Perturbations Caused by Large Impacts and Consequences for Mantle Convection, *AGU Fall Meeting Abstracts*.

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Awards & External Grants

- Pinanski Teaching Prize, 2018 (Wellesley College)
- Apgar Award for excellence in teaching, 2016 (Wellesley College)
- NASA Mars Data Analysis grant (PI), 2015-2018 (shared with co-I Caleb Fassett; NASA-Huntsville); *Modification of impact craters in diverse environments on Mars*
- NASA Lunar Data Analysis grant (co-I), 2016-2019 (subcontract from PI Caleb Fassett; NASA-Huntsville); *High resolution topography and radar observations of lunar craters and cratered surfaces*
- Diana Chapman Walsh assistant professorship, 2014-2017 (Wellesley College)
- Editors’ Citation for Excellence in Refereeing for JGR-Planets, 2011 (American Geophysical Union)
- NSF Graduate Research Fellow, 2001-2003 (U.S. National Science Foundation)
- Fulbright Fellow, 2000-2001 (U.S. Fulbright Foundation; U. of Oslo, Norway)
- Goldwater Scholar, 1998 (in mathematics and science, U.S. Barry Goldwater Foundation)
- Burchard Scholar, 1998 (in the humanities, MIT Dept. of Humanities & Social Sciences)
- Sigma Pi Sigma Physics Honor Society, elected 1998 (MIT Physics Dept.)

Invited talks & colloquia

- State University of New York at Albany, Dept. Physics, weekly seminar; host: Matthew Szydags. 2022-10-07
- Princeton University, Dept. Geosciences, Solid earth seminar; host: Adam Maloof. 2019-03-01
- Brown Univeristy, Dept. Earth, Environmental, & Planetary Science; planetary sciences seminar; host: Prof. James Head III. 2016-10-27
- Massachusetts Institute of Technology, Dept. Earth, Atmospheric & Planetary Science; planetary sciences seminar; host: Dr. Jason Soderblom. 2015-02-19
- Harvard University, Dept. Earth & Planetary Science; department seminar; host: Prof. Francis MacDonald. 2013-11-18.
- U. Pennsylvania, Dept. Earth & Environmental Science; departmental seminar; host: Prof. Douglas Jerolmack. 2012-11-30.
- Wesleyan University, Dept. Earth & Environmental Sciences; departmental seminar; host: Prof. Martha Gilmore. 2012-11-15.
- Binghamton University, Dept. of Geological Sciences and Environmental Studies; departmental seminar; host: Prof. Timothy Lowenstein. 2011-04-08
- Caltech Division of Planetary Sciences; division seminar; host: Prof. Edward Stolper, 2009-11-11.

Professional service

- NASA Lunar Data Analysis review panel (June 2018)
- External reviewer for NASA's Solar System Workings program (2016, 2017) and Lunar Data Analysis Program (2017, 2019)
- Chair of the Planetary Nomenclature Subcommittee of the Planetary Crater Consortium (2015-2018)
- Reviewer for articles for the journals *Icarus*, *Earth and Planetary Science Letters*, *Physics of the Earth & Planetary Interiors*, and *Journal of Geophysical Research–Planets*, (2011–present).
- NASA Mars Fundamental Research review panel (Oct. 18-22, 2010)

Academic work experience (post-doctoral)

- **Dept. Astronomy, Cornell University, Ithaca, NY, USA** (2009-June, 2011): Post-doctoral Research Associate. Evolution of the Meridiani and Gusev landing sites, especially the origin of polygonal fracturing at both locations via a combination of numerical modeling, morphometric analysis, and field-work in Death Valley, California. Part of my work involved leading an effort to gather observations required for a structural analysis of Santa Maria

Crater near the MER-Opportunity landing site at Meridiani Planum (Supervisor: Prof. Steve Squyres, with funding from the MER and HiRISE missions.)