

Ingrid Daubar

CURRICULUM VITAE

Contact Information

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Education

Doctor of Philosophy (Candidate), Planetary Sciences

University of Arizona, expected December 2013

Master's of Science, Planetary Sciences

University of Arizona, August 2002. (GPA: 3.8)

Thesis: *Northwest Africa 482: A Lunar Meteorite from the Highlands*

Bachelor of Arts, Astronomy

Cornell University, May 1999. (GPA: 3.4)

Honors and Awards

- Group Achievement Award, MRO HiRISE Science Team, 2011
- College of Science Graduate Student Award for Service, 2011
- CoSSAC Professional Development Grant, 2009
- College of Science Staff Recognition Award of Excellence, 2008
- LPL Career Staff Excellent Award, 2008
- LPL Honorable Mention Award of Excellence, 2007
- University of Arizona Graduate Registration Fellowship, 2000-2001 (GPA-based)
- Graduate Teaching Excellence Award, Spring 2000
- Dean's Scholar, Cornell University, 1995-1999
- Robert C. Byrd Honors Scholarship Program, 1995-99
- Dean's List, Cornell University, 1996-1997
- Valedictorian, East Lyme High School, 1990-1995

Professional Memberships

- Division of Planetary Sciences, American Astronomical Society
- American Geophysical Union
- The Planetary Society

Work Experience

2005-present: Uplink Lead for the HiRISE experiment

Alfred McEwen, Principal Investigator

- Target, plan, and command 3,000+ high-resolution observations of Mars.
- Supervise uplink group consisting of seven Targeting Specialists.
- Assist with special sequence commanding, camera calibration, and instrument engineering activities.
- Participate in various outreach efforts on a volunteer basis.

2004-2005: Contributor and editor of Astropedia, university-level electronic astronomy textbook

Chris Impey, University of Arizona Distinguished Professor of Astronomy

- Edited ~100,000 words of existing material.
- Created ~40,000 words of new material.
- Identified appropriate supplementary multimedia.

Research Experience

2009-present: Research Assistant

Department of Planetary Sciences, University of Arizona

Alfred McEwen, Professor of Planetary Geology

- Morphology and statistics of small recent craters on Mars and the Moon; implications for current cratering rates, planetary chronologies, target material properties, and seasonal variability of impact rates.

1999-2002: Research Assistant

Department of Planetary Sciences, University of Arizona

David Kring, Associate Professor of Planetary Geology and Cosmochemistry

- Thermal modeling of impact-induced hydrothermal systems.
- Petrology and mineralogy of shocked meteorites and samples from terrestrial craters.
- Classification of new meteorites, including mesosiderites, chondrites, and a lunar meteorite.

1998-1999: Research Assistant

Department of Astronomy, Cornell University

Joseph Veveřka, Professor of Astronomy

- Catalogued instances of dark streaks in MOC images of the Martian surface.

Summer 1998: Undergraduate Summer Internship

Arecibo Observatory, National Astronomy and Ionosphere Center

Dr. Michael Nolan, Planetary Radar

- Participated in the first radar observations performed with upgraded system.
- Observations of many types of objects, including NEAs, comets, and Mercury.
- Analyzed observations to determine physical properties of targets.
- Studied broadband radio continuum spectra and variability of OH/IR stars.

1997-1998: Research Assistant

Department of Astronomy, Cornell University

Joseph Burns, Professor of Astronomy and Irving Porter Church Professor of Engineering

- Analyzed images of the Jovian ring system taken by the Galileo spacecraft.

Peer-Reviewed Publications

Burleigh, K. J., *et al.*, 2012, *Icarus*, [Impact airblast triggers dust avalanches on Mars](#)

Tamppari, L. K., *et al.*, 2010, *JGR*, [Phoenix and MRO Coordinated Atmospheric Measurements](#)

McEwen, A., *et al.*, 2010, *Icarus*, [The High Resolution Imaging Science Experiment \(HiRISE\) during MRO's Primary Science Phase \(PSP\)](#)

Byrne, S., *et al.*, 2009, *Science*, [Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters](#)

Russell, P., *et al.*, 2008, *GRL*, [Seasonally active frost-dust avalanches on a north polar scarp of Mars captured by HiRISE](#)

Daubar, I. J., *et al.*, 2002, *Meteoritics and Planetary Science*, [Northwest Africa 482: A crystalline impact-melt breccia from the lunar highlands](#)

Lewis, B. M., *et al.*, 2001, *Astrophysical Journal*, [The Approaching Death of the OH/IR star IRAS 18455+0448](#)

Ockert-Bell, M. E., *et al.*, 1999, *Icarus*, [The Structure of Jupiter's Ring System as Revealed by the Galileo Imaging Experiment](#)

Conference Abstracts

- Daubar, I. J., *et al.*, 2012, *LPSC Abstracts* [Seasonal Variation in Current Martian Impact Rate](#)
- Russell, P. S., *et al.*, 2012, *LPSC Abstracts* [Ground Penetrating Radar Field Studies of Lunar-Analog Geologic Settings: Impact Ejecta and Volcanic Materials](#)
- Daubar, I. J., *et al.*, 2011, *EPSC-DPS Joint Meeting, 2011* [The Current Martian Crater Production Function](#)
- Byrne, S., *et al.*, 2011, *EPSC-DPS Joint Meeting, 2011* [Probing for Ground Ice on Mars with Impact Craters](#)
- Daubar, I. J. *et al.*, 2011, *LPSC Abstracts*, [New Craters on Mars and the Moon \(PDF\)](#)
- Daubar, I. J. *et al.*, 2010, *1st Planetary Cratering Consortium*, [New Martian Impact Events: Effects on Atmospheric Breakup on Statistics](#)
- Daubar, I. J. *et al.*, 2010, *LPSC Abstracts*, [The Current Martian Cratering Rate](#)
- Geissler, P. E., *et al.*, 2010, *LPSC Abstracts*, [Eolian Degradation of Young Martian Craters](#)
- Daubar, I. J. & McEwen, A. S., 2009, *AAS/DPS Meeting Abstracts*, [Depth to Diameter Ratios of New Martian Craters from HiRISE Images](#)
- Daubar, I. J. & McEwen, A. S., 2009, *LPSC Abstracts*, [Depth to Diameter Ratios of Recent Primary Impact Craters on Mars](#)
- Tamppari, L. K., *et al.*, 2009, *LPSC Abstracts*, [Phoenix and MRO Coordinated Atmospheric Science](#)
- Byrne, S., *et al.*, 2009, *LPSC Abstracts*, [Excavation of Subsurface Ice on Mars by New Impact Craters](#)
- Tamppari, L. K., *et al.*, 2008, *AGU Fall Meeting Abstracts*, [Phoenix and Mars Reconnaissance Orbiter Coordinated Atmospheric Science](#)
- Eliason, E. M., *et al.*, 2007, *LPSC Abstracts*, [HiRISE Data Processing and Standard Data Products](#)
- Daubar, I. J. & Kring, D. A., 2001, *Bull. Amer. Astr. Soc.*, [Impact-Induced Liquid-Water Environments on Mars](#)
- Daubar, I. J. & Kring, D. A. 2001, *LPSC Abstracts*, [Impact-induced Hydrothermal Systems: Heat Sources and Lifetimes](#)
- Sullivan, R., *et al.*, 1999, *LPSC Abstracts* [Mass-Movement Considerations for Dark Slope Streaks Imaged by the Mars Orbiter Camera](#)
- Salter, C. J., *et al.*, 1998, *Bull. Amer. Astr. Soc.*, [Single-Epoch Measurements of Broadband Radio Continuum Spectra](#)
- Daubar, I. J., *et al.*, 1998, *Bull. Amer. Astr. Soc.*, [First Results from the Arecibo Observatory Planetary Radar](#)
- Oppenheimer, B. D. & Daubar, I. J., 1998, *Bull. Amer. Astr. Soc.*, [A Selected Survey of Main-Line OH/IR Stars with the Arecibo Dish](#)
- Nolan, M. C., *et al.*, 1998, *Bull. Amer. Astr. Soc.*, [First Results from the Arecibo Observatory Planetary Radar](#)
- Daubar, I. J., *et al.*, 1997, *Bull. Amer. Astr. Soc.*, [Galileo SAW Jupiter's Rings, Too](#)

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