

Ingrid J. Daubar

Brown University

Earth, Environmental, and Planetary Sciences
Campus Box 1846, Providence, RI 02912-1846

Office: 401-863-1437 Cell: 626-590-2317

Ingrid_Daubar@brown.edu

(she/her pronouns)



Dr. Ingrid Daubar is a planetary scientist with extensive experience in scientific research and mission operations. Her research interests include impact cratering, modern-day geologic processes including mass wasting and aeolian processes, atmosphere-surface interactions and the dust cycle of Mars, the geology and exploration of Europa, and impact-seismic studies. Dr. Daubar's research on small, recent impact craters on Mars and the Moon has allowed us to better understand the impact flux in the inner solar system, the chronology of recent events and timescales of geologic processes on these bodies, and the processes involved in modern-day cratering and modification over time of planetary surfaces. Dr. Daubar has contributed to science and operations on NASA planetary missions and instruments including HiRISE, InSight, Europa Clipper, and Juno.

Education

2014: Doctor of Philosophy, Planetary Sciences, University of Arizona

Dissertation: New Dated Craters on Mars and the Moon: Studies of the Freshest Craters in the Solar System

2002: Master of Science, Planetary Sciences, University of Arizona

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

1999: Bachelor of Arts, Astronomy, Cornell University

Professional Appointments

2020-current: Assistant Professor of Research

2019-2020: Senior Research Associate

Brown University; Earth, Environmental, and Planetary Sciences

- Current cratering on Mars: seismic detectability of impacts, atmospheric interactions with surface, Machine Learning applications
- Dust devil tracks: lifetimes and dust deposition rates, global statistics of occurrences
- Short-term (seasonal and shower-related) variability of impact rate on Mars and the Moon

2020-current: Europa Clipper Project Staff Scientist

Jet Propulsion Laboratory, California Institute of Technology

- Planning, development, maintenance, review, and execution of spacecraft, payload, Mission Operation System, and other Project processes, policies, and procedures

- Geology Thematic Working Group Facilitator
- Validation and verification efforts related to Level 1 and Guiding Level 2 science requirements
- Organizing and participating in Europa Clipper Science Team meetings

2017: Visiting Scientist

Institut de Physique du Globe de Paris

- Impact-seismic studies

2015-2019: Research Scientist

Jet Propulsion Laboratory, California Institute of Technology

- Current cratering on Mars: geospatial characteristics of new impacts, crater clusters, seismic detectability of impacts
- Albedo effects around landed missions
- Secondary cratering statistics and chronology issues
- Dust devil tracks: lifetimes and dust deposition rates
- Dust mobility and albedo

2014-2015: NASA Postdoctoral Fellow

Jet Propulsion Laboratory, California Institute of Technology

Dr. Matthew Golombek, Senior Research Scientist

- Current cratering on Mars: seasonal variability of impact rates, seismic detectability of impacts, small crater morphology
- InSight landing site assessment and operations
- Albedo effects around new impacts

2009-2014: Research Assistant

University of Arizona; Department of Planetary Sciences

Dr. 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 modification rates

1999-2002: Research Assistant

University of Arizona; Department of Planetary Sciences

Dr. 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

Cornell University, Department of Astronomy

Dr. Joseph Veverka, 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

Cornell University, Department of Astronomy

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

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

NASA Mission Involvement

2014-current: InSight mission

Participating Scientist

Co-Lead, Impacts Science Theme Working Group

Deputy Lead, Instrument Site Selection Working Group

- Landing site certification and safety assessment
- Impact detection and localization
- Science planning
- InSightSeer program creator and lead

2016-current: Europa Clipper mission

Project Staff Scientist (2020-current)

Investigation Scientist for the Europa Imaging System (EIS) (2016-2020)

- Developed science, measurement, and engineering requirements at levels 1-3
- Aided in mission planning and operations concept development
- Verification and validation of science requirements
- Geology Thematic Working Group Facilitator

2017-current: HiRISE camera on Mars Reconnaissance Orbiter (MRO)

Co-Investigator

Impact Cratering Science Theme Lead

- Science lead for planning cycles (“Co-I of the Pay Period”)
- Prioritizing and vetting suggestions from scientific colleagues and the public
- Interface with InSight mission to coordinate science

2016-2018, 2021-current: Juno mission Radiation Monitoring (RM) Investigation

Science Planner (2016-2018)

PDS Archivist lead (2021-current)

- Planned observations
- Performed data analysis and assisted with paper preparation

- Prepared archival data and documentation for public release through the Planetary Data System

2013: NASA Planetary Summer School

Principal Investigator role

- Designed a mission concept working with Team X, a concurrent engineering team at the NASA Jet Propulsion Laboratory
- Mission for Uranus Science and Exploration (MUSE) presented at OPAG and LPSC

2005-2013: HiRISE camera on Mars Reconnaissance Orbiter (MRO)

Uplink Operations Lead

- Targeted, planned, and commanded 7,000+ high-resolution observations of Mars.
- Supervised uplink group consisting of seven Targeting Specialists.
- Contributed to camera calibration, software development, and operational procedures development.
- Assisted with special sequence commanding and instrument engineering activities.
- Participated in outreach efforts such as public talks on a volunteer basis.

Selected Honors and Awards

- NASA Group Achievement Award, COSMIC Technology Development Team, 2022
- JPL Voyager Award, 2021
- NASA Honor Group Achievement Award, InSight Instrument Site Selection Working Group, 2020
- JPL Voyager Award, 2019
- Emmy Award, Outstanding Original Interactive Program, NASA's InSight Mars Landing, contributor, 2019
- JPL Group Achievement Award, Juno Mission Re-Design, 2018
- JPL Voyager Award, 2017
- JPL Team Award, Juno Radiation Monitoring Investigation Team, 2017
- JPL Team Award, Europa Clipper Investigation Scientists, 2017
- Editors' Citation for Excellence in Refereeing, Journal of Geophysical Research-Planets, 2016
- NASA Postdoctoral Program Fellowship, 2014-2015
- Wiley-Blackwell Award, 2014
- Ninninger Meteorite Award, 2014
- Emily Krauz Staff Endowment Fund Scholarship, 2014
- Shandel Education Plus Fund award, 2012
- University of Arizona College of Science Galileo Circle Scholar, 2011
- Group Achievement Award, MRO HiRISE Science Team, 2011
- University of Arizona College of Science Graduate Student Award for Outstanding Service/Outreach, 2011
- Lunar & Planetary Laboratory Career Staff Excellence Award, 2008

- Graduate Teaching Excellence Award, Spring 2000

Invited Talks

- 2022 *Northern Arizona University Department of Astronomy and Planetary Science*: “Impacts on Mars: Seismic and Orbital Observations”
- 2020 *University of Western Ontario*: “New Craters on Mars”
- 2020 *Brown University*: “Active Mars: Impact Cratering, Aeolian, and Tectonic Activity”
- 2019 *Cornell University*: Career Conversation with Arts & Sciences undergraduates
- 2019 *Geological Society of America annual meeting*: “Studying impact processes with the InSight mission”
- 2017 *Institut de Physique du Globe de Paris*: “Current Cratering on Mars from Imaging and Seismic Studies”
- 2015 *Workshop on Issues in Crater Studies and the Dating of Planetary Surfaces*: “Current State of Knowledge of Modern Martian Cratering.”
- 2015 *California Institute of Technology*: “New Martian Craters: Current Impact Rate, Morphology, and Lifetimes”
- 2014 *Geological Society of America*: “New Dated Impacts on Mars and an Updated Current Cratering Rate”
- 2013 *Goddard Space Flight Center*: “New Martian Craters: Current Impact Rate, Dating Recent Climate Change, Change Detection, and Morphology”
- 2013 *Johns Hopkins University Applied Physics Laboratory*: “New Martian Craters: Current Impact Rate, Dating Recent Climate Change, Change Detection, and Morphology”
- 2012 *7th European Strategic Meteor Workshop, Moscow State University of Geodesy and Cartography (MIIGAiK), Russia*: “Current Impact Flux at Mars”

Teaching and Mentoring

Postdoctoral advisor: Aleksandra Sokołowska (2023-present)

Graduate student advisory committees: Fiona Nichols-Fleming (2019-present), Matthew Jones (2021-present), Alyssa Pascuzzo (2021), Meg Wilson (2021-present), Melissa Meyer (2021-present), Janie Levin (2022-present), Riley Havel (2022-present)

Undergraduate researchers: Annabelle Gao (2020-present), Daniel Wexler (2020-2022), Daniel Zhou (2021), Joseph Pate (2021-2022), Tyreese Bernard (2022)

Undergraduate senior thesis reader: Eashan Das (2021)

Mentor to JPL Interns, 2014-2018: Colin Bloom, Elizabeth Bondi, Ronald Domholdt, Claire Schwartz, Michelle Wray, April Davis, Marshall Trautman, Sydney Melady, Carol Hundal, Rachel Hausmann

Space Grant Mentor, 2009-2010: Stephanie Craig

Undergraduate student employees, 2009-2013: Amber Keske, George Amaya, Eric Sahr

Teaching Assistant:

2002, Planetary Sciences 206: Golden Age of Planetary Exploration, Prof. Michael Drake

2000, Planetary Sciences 206: Golden Age of Planetary Exploration, Prof. Uwe Fink

1999, Natural Science 101: Evolution of a Habitable World, Prof. Jonathan Lunine

Field Experience

2011 August, Meteor Crater, Arizona - Ground-penetrating radar studies of subsurface ejecta blocks. P.I.: P. Russell, Smithsonian-CEPS.

1999-2013, Various locations. Planetary Geology Field Studies - departmental field practicum course, taken nine times in locations throughout the southwestern US.

Professional Training

Bystander Intervention Training 201, 2023

Advanced Media Training, Brown University Office of University Communications, 2022

Unlearning Racism in Geoscience (URGE) Brown DEEPS pod, 2021

Technical Women's Leadership Journey, JPL, 2019

Bystander Intervention Training, 2018

Science Mission Interface (SMI) Workshop 3 on Proposal Development and Science Communication, JPL, 2018

Small Science and Technology Research Proposal Writing, JPL, 2017

Cost Effective Space Mission Operations, JPL, 2015

Science Mission Interface (SMI) Workshop 2 on Scientist Roles in Missions, JPL, 2015

Successful Supervisor Series, University of Arizona, 2009

University Leadership Institute, University of Arizona, 2008

360° Management Development Assessment, University of Arizona, 2008

Professional Memberships

American Astronomical Society, Division of Planetary Sciences

American Geophysical Union

The Planetary Society

Association of Women in Science

Meteoritical Society

Geological Society of America, Planetary Geology Division

Community Service

Public Outreach: Numerous talks, tours, and events presenting HiRISE, InSight, and Mars science to the local community; various JPL public tours and outreach events (ongoing)

Subcommittee on Professional Culture & Climate (PCCS), Division for Planetary Sciences, American Astronomical Society, 2019-present

Brown University DEEPS Planetary Workplace Climate Council (PWCC), 2019-2022

InSightSeer program creator and lead, 2021-2022

Local Organizing Committee for the annual meeting of the Division for Planetary Sciences, American Astronomical Society, 2021

Scientific Organizing Committee for the 9th International Conference on Mars.

Peer reviewer for journal articles, including Icarus, Journal of Geophysical Research, Space Science Reviews, Planetary and Space Science. Icarus Outstanding Reviewer Status.

Served on proposal review panels for various ROSES calls, on panels and as external reviewer

Organizer of the Women in Planetary Science (WPS) group at JPL, 2015-2019

Elected Board Member of the JPL New Researchers' Support Group (NRSG), 2016-2017

JPL Floor Safety Warden, 2017-2019

Organizer of the Mars Forum biweekly JPL seminar series

Communications Chair for the Caltech Postdoctoral Association

Lunar and Planetary Laboratory Alumni Association Liaison

Co-organizer of Women at LPL organization

Judge for Dwornik Student Award, Planetary Geology Division of the Geological Society of America

Judge for UA Graduate and Professional Student Council Travel Grant Awards

Contributor, Encyclopedia of Planetary Landforms (Henrik Hargitai and Akos Kereszturi, eds.)

Refereed Journal Articles

In Preparation

Daubar, I. J. et al. Planned Geological Investigations of the Europa Clipper Mission. Submitted to Space Science Reviews January 2023.

Daubar, I. J. and B. Fernando et al. Two seismic events from InSight confirmed as new impacts on Mars. Submitted to Planetary Science Journal February 2023.

Daubar, I. J. et al. Seismically Measured Impact Flux at Mars: Enhanced Recent Cratering Rate? In preparation.

Published

2023 (in progress)

Dundas, C. M., M. T. Mellon, L. V. Posiolova, K. Miljković, G. S. Collins, L. L. Tornabene, V. G. Rangarajan, M. P. Golombek, N. H. Warner, **I. J. Daubar**, S. Byrne, A. S. McEwen, K. D.

Seelos, D. Viola, A. M. Bramson, and G. Speth (2023) A Large New Crater Exposes the Limits of Water Ice on Mars. *Geophysical Research Letters* 50, e2022GL100747. DOI:10.1029/2022GL100747

2022

Fernando, B., **I. J. Daubar**, J. C. E. Irving, C. L. Johnson, A. G. Marusiak, M. M. Baker, and S. Stanley (2022) Inclusion of early-career researchers in space missions. *Nature Astronomy* 6, 1339-1341. DOI:10.1038/s41550-022-01861-2

Daubar, I. J., C. M. Dundas, A. S. McEwen, A. Gao, D. Wexler, S. Piqueux, G. S. Collins, K. Miljkovic, T. Neidhart, J. Eschenfelder, G. D. Bart, K. L. Wagstaff, G. Doran, L. Posiolova, M. Malin, G. Speth, D. Susko, and A. Werynski (2022) New Craters on Mars: An Updated Catalog. *Journal of Geophysical Research (Planets)* 127, e07145. DOI:10.1029/2021JE007145

Posiolova, L. V., P. Lognonné, W. B. Banerdt, J. Clinton, G. S. Collins, T. Kawamura, S. Ceylan, **I. J. Daubar**, B. Fernando, M. Froment, D. Giardini, M. C. Malin, K. Miljković, S. C. Stähler, Z. Xu, M. E. Banks, É. Beucler, B. A. Cantor, C. Charalambous, N. Dahmen, P. Davis, M. Drilleau, C. M. Dundas, C. Durán, F. Euchner, R. F. Garcia, M. Golombek, A. Horleston, C. Keegan, A. Khan, D. Kim, C. Larmat, R. Lorenz, L. Margerin, S. Menina, M. Panning, C. Pardo, C. Perrin, W. T. Pike, M. Plasman, A. Rajšić, L. Rolland, E. Rougier, G. Speth, A. Spiga, A. Stott, D. Susko, N. A. Teanby, A. Valeh, A. Werynski, N. Wójcicka, and G. Zenhäusern (2022) Largest recent impact craters on Mars: Orbital imaging and surface seismic co-investigation. *Science* 378, 412-417. DOI:10.1126/science.abq7704

Kim, D., W. B. Banerdt, S. Ceylan, D. Giardini, V. Lekić, P. Lognonné, C. Beghein, É. Beucler, S. Carrasco, C. Charalambous, J. Clinton, M. Drilleau, C. Durán, M. Golombek, R. Joshi, A. Khan, B. Knapmeyer-Endrun, J. Li, R. Maguire, W. T. Pike, H. Samuel, M. Schimmel, N. C. Schmerr, S. C. Stähler, E. Stutzmann, M. Wieczorek, Z. Xu, A. Batov, E. Bozdog, N. Dahmen, P. Davis, T. Gudkova, A. Horleston, Q. Huang, T. Kawamura, S. D. King, S. M. McLennan, F. Nimmo, M. Plasman, A. C. Plesa, I. E. Stepanova, E. Weidner, G. Zenhäusern, **I. J. Daubar**, B. Fernando, R. F. Garcia, L. V. Posiolova, and M. P. Panning (2022) Surface waves and crustal structure on Mars. *Science* 378, 417-421. DOI:10.1126/science.abq7157

Daubar, I.J., 2022. First seismic detections of natural impacts linked to craters on another planet (Research briefing). *Nat. Geosci.* <https://doi.org/10.1038/s41561-022-01029-7>

Garcia, R. F., **I. J. Daubar**, É. Beucler, L. V. Posiolova, G. S. Collins, P. Lognonné, L. Rolland, Z. Xu, N. Wójcicka, A. Spiga, B. Fernando, G. Speth, L. Martire, A. Rajšić, K. Miljković, E. K. Sansom, C. Charalambous, S. Ceylan, S. Menina, L. Margerin, R. Lapeyre, T. Neidhart, N. A. Teanby, N. C. Schmerr, W. B. Banerdt, M. Froment, J. F. Clinton, O. Karatekin, S. C. Stähler, N. L. Dahmen, C. Durán, A. Horleston, T. Kawamura, M. Plasman, G. Zenhäusern, D. Giardini, M. Panning, M. Malin, and W. B. Banerdt (2022) Newly formed craters on Mars

located using seismic and acoustic wave data from InSight. *Nature Geoscience* 15, 774-780. DOI:10.1038/s41561-022-01014-0

Wagstaff, K. L., **I. J. Daubar**, G. Doran, M. J. Munje, V. T. Bickel, A. Gao, J. Pate, and D. Wexler (2022) Using machine learning to reduce observational biases when detecting new impacts on Mars. *Icarus* 386, 115146. DOI:10.1016/j.icarus.2022.115146

Collins, G. S., E. L. Newland, D. Schwarz, M. Coleman, S. McMullan, **I. J. Daubar**, K. Miljković, T. Neidhart, and E. Sansom (2022) Meteoroid Fragmentation in the Martian Atmosphere and the Formation of Crater Clusters. *Journal of Geophysical Research (Planets)* 127, e07149. DOI:10.1029/2021JE007149

Daubar, I.J., Dundas, C.M., McEwen, A.S., Gao, A., Wexler, D., Piqueux, S., Collins, G.S., Miljkovic, K., Neidhart, T., Eschenfelder, J., Bart, G.D., Wagstaff, K.L., Doran, G., Posiolova, L., Malin, M., Speth, G., Susko, D., Werynski, A., 2022. New Craters on Mars: An Updated Catalog. *J. Geophys. Res. Planets* 127, e2021JE007145. <https://doi.org/10.1029/2021je007145>

Warner, N. H., Golombek, M. P., Ansan, V., Marteau, E., Williams, N., Grant, J. A., E. Hauber, C. Weitz, S. Wilson, S. Piqueux, N. Mueller, M. Grott, S. Tilman, L. Pan, C. Schmelzbach, **I. J. Daubar**, J. Garvin, C. Charalambous, M. Baker, and M. Banks. (2022). In situ and orbital stratigraphic characterization of the InSight landing site—A type example of a regolith-covered lava plain on Mars. *Journal of Geophysical Research: Planets*, 127, e2022JE007232. <https://doi.org/10.1029/2022JE007232>

Fernando, B., N. Wójcicka, R. Maguire, S. C. Stähler, A. E. Stott, S. Ceylan, C. Charalambous, J. Clinton, G. S. Collins, N. Dahmen, M. Froment, M. Golombek, A. Horleston, O. Karatekin, T. Kawamura, C. Larmat, T. Nissen-Meyer, M. R. Patel, M. Plasman, L. Posiolova, L. Rolland, A. Spiga, N. A. Teanby, G. Zenhäusern, D. Giardini, P. Lognonné, B. Banerdt, and **I. J. Daubar** (2022) Seismic constraints from a Mars impact experiment using InSight and Perseverance. *Nature Astronomy* 6, 59-64. DOI:10.1038/s41550-021-01502-0

2021

Knapmeyer, M., S. C. Stähler, **I. Daubar**, F. Forget, A. Spiga, T. Pierron, M. van Driel, D. Banfield, E. Hauber, M. Grott, N. Müller, C. Perrin, A. Jacob, A. Lucas, B. Knapmeyer-Endrun, C. Newman, M. P. Panning, R. C. Weber, F. J. Calef, M. Böse, S. Ceylan, C. Charalambous, J. Clinton, N. Dahmen, D. Giardini, A. Horleston, T. Kawamura, A. Khan, G. Mainsant, M. Plasman, M. Lemmon, R. Lorenz, W. T. Pike, J.-R. Scholz, P. Lognonné, and B. Banerdt (2021) Seasonal seismic activity on Mars. *Earth and Planetary Science Letters* 576, 117171. DOI:10.1016/j.epsl.2021.117171

Dundas, C. M., P. Becerra, S. Byrne, M. Chojnacki, **I. J. Daubar**, S. Diniega, C. J. Hansen, K. E. Herkenhoff, M. E. Landis, A. S. McEwen, G. Portyankina, and A. Valantinas (2021) Active Mars: A Dynamic World. *Journal of Geophysical Research (Planets)* 126, e06876. DOI:10.1029/2021JE006876

Piqueux, S., N. Müller, M. Grott, M. Siegler, E. Millour, F. Forget, M. Lemmon, M. Golombek, N. Williams, J. Grant, N. Warner, V. Ansan, **I. Daubar**, J. Knollenberg, J. Maki, A. Spiga, D. Banfield, T. Spohn, S. Smrekar, and B. Banerdt (2021) Soil Thermophysical Properties Near the InSight Lander Derived From 50 Sols of Radiometer Measurements. *Journal of Geophysical Research (Planets)* 126, e06859. DOI:10.1029/2021JE006859

Charalambous, C., J. B. McClean, M. Baker, W. T. Pike, M. Golombek, M. Lemmon, V. Ansan, C. Perrin, A. Spiga, R. D. Lorenz, M. E. Banks, N. Murdoch, S. Rodriguez, C. M. Weitz, J. A. Grant, N. H. Warner, J. Garvin, **I. J. Daubar**, E. Hauber, A. E. Stott, C. L. Johnson, A. Mittelholz, T. Warren, S. Navarro, L. M. Sotomayor, J. Maki, A. Lucas, D. Banfield, C. Newman, D. Viúdez-Moreiras, J. Pla-García, P. Lognonné, and W. B. Banerdt (2021) Vortex-Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multi-Instrument Observations, Analysis, and Implications. *Journal of Geophysical Research (Planets)* 126, e06757. DOI:10.1029/2020JE006757

Fernando, B., N. Wójcicka, M. Froment, R. Maguire, S. C. Stähler, L. Rolland, G. S. Collins, O. Karatekin, C. Larmat, E. K. Sansom, N. A. Teanby, A. Spiga, F. Karakostas, K. Leng, T. Nissen-Meyer, T. Kawamura, D. Giardini, P. Lognonné, B. Banerdt, and **I. J. Daubar** (2021) Listening for the Landing: Seismic Detections of Perseverance's Arrival at Mars With InSight. *Earth and Space Science* 8, e01585. DOI:10.1029/2020EA001585

Dundas, C. M., M. T. Mellon, S. J. Conway, **I. J. Daubar**, K. E. Williams, L. Ojha, J. J. Wray, A. M. Bramson, S. Byrne, A. S. McEwen, L. V. Posiolova, G. Speth, D. Viola, M. E. Landis, G. A. Morgan, and A. V. Pathare (2021) Widespread Exposures of Extensive Clean Shallow Ice in the Midlatitudes of Mars. *Journal of Geophysical Research (Planets)* 126, e06617. DOI:10.1029/2020JE006617

Rajšić, A., K. Miljković, G. S. Collins, K. Wünnemann, **I. J. Daubar**, N. Wójcicka, and M. A. Wieczorek (2021) Seismic Efficiency for Simple Crater Formation in the Martian Top Crust Analog. *Journal of Geophysical Research (Planets)* 126, e06662. DOI:10.1029/2020JE006662

Fernando, B., N. Wójcicka, Z. Han, A. Stott, S. Ceylan, C. Charalambous, G. S. Collins, D. Estévez, M. Froment, M. Golombek, P. Gülzow, A. Horleston, O. Karatekin, T. Kawamura, C. Larmat, R. Maguire, T. Nissen-Meyer, M. Plasman, Y. Qia, L. Rolland, A. Spiga, S. Stähler, N. A. Teanby, Y.-Y. S. Zhao, D. Giardini, P. Lognonné, and **I. J. Daubar** (2021) Questions to Heaven. *Astronomy and Geophysics* 62, 6.22-6.25. DOI:10.1093/astrogeo/atab103

2020

Golombek, M., N. Williams, N. H. Warner, T. Parker, M. G. Williams, **I. Daubar**, F. Calef, J. Grant, P. Bailey, H. Abarca, R. Deen, N. Ruoff, J. Maki, A. McEwen, N. Baugh, K. Block, L. Tamppari, J. Call, J. Ladewig, A. Stoltz, W. A. Weems, L. Mora-Sotomayor, J. Torres, M. Johnson, T. Kennedy, and E. Sklyanskiy (2020) Location and Setting of the Mars InSight Lander, Instruments, and Landing Site. *Earth and Space Science* 7, e01248. DOI:10.1029/2020EA001248

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Funded/Active

Mars Data Analysis Program: “Rockfalls on Mars - Indicators of Seismicity, Impacts, or Thermal Fatigue?”

P.I. I. J. Daubar, Brown University
2020-2023

Mars Data Analysis Program: “Blasting Mars: What Factors Enable Detection of New Impact Sites?”

Co-Investigator; P.I. G. Bart, U. Idaho
2020-2023

Mars Data Analysis Program: “Modern impact flux: new constraints from automated image processing”

Co-Investigator; P.I. M. Day, UCLA
2020-2023

Solar System Workings: “Modeling and Measuring Variations in the Inner Solar System Impact Rate”

P.I. I. J. Daubar, Brown University
2020-2023

InSight Participating Scientist: “Localization and Characterization of Seismically Detected Impact Craters.”

P.I. I. J. Daubar, JPL
2018-2022

Mars Data Analysis Program: “Martian Dust Devil Tracks: Albedos, Lifetimes, and Dust Deposition Rates.”

P.I. I. J. Daubar, JPL
2017-2020

Completed

NASA Innovative Advanced Concepts: “Solar System Pony Express: A recurring petabit-scale data transfer network”

Co-Investigator; P.I. J. Vander Hook, Jet Propulsion Laboratory
2021

JPL Research & Technology Development Innovative Spontaneous Concept: “Assessment of Machine-Discovered Fresh Impacts on Mars”

Co-Investigator; P.I. G. Doran, Jet Propulsion Laboratory
2021

Undergraduate Teaching and Research Award (UTRA): Summer student funding for research project “Seasonal Variation in Current Martian Impact Rate”

2021

Mars Data Analysis Program: “Blasting Mars: Surface Halos Produced by Current Impact Cratering.”

Co-Investigator; P.I. G. Bart, U. Idaho
2018-2020

JPL Strategic Research and Technology Development program: “Mars Science Helicopter System”

Co-Investigator, Science Lead; P.I. T. Tzanetos, JPL
2019

JPL Research and Technology Development program: “Responsive Onboard Science for Europa Clipper”

Co-Investigator; P.I. K. Wagstaff, JPL
2019

JPL Research and Technology Development program: “An Ultra-Light Weight Perching System for Sloped or Vertical Rough Surfaces on Mars”

Co-Investigator; P.I. A. Kalantari, JPL
2019

NASA Postdoctoral Program Research Fellowship: “Seasonal Variation in the Martian Impact Rate”

Research Advisor M. Golombek, JPL
2014-2015

Mars Fundamental Research Program: “Utilizing Morphometric Properties of Craters to Characterize the Seismological Signature of Recent Impact Events on Mars”

Co-Investigator; P.I. N. Schmerr, U. Maryland
2013-2015

University of Arizona Commission on the Status of Women: Mini Grant for Lunar and Planetary Laboratory Women.

Co-Proposer with K. Block, U. Arizona
2013

Mars Data Analysis Program: “Martian Surface Structure and Age from Impact Crater Analysis.”

Collaborator; P.I. G. Bart, U. Idaho
2011-2012

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