

Jani Radebaugh

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Planetary surface processes from spacecraft observations and field studies

Education

2005 Doctor of Philosophy in Planetary Science, University of Arizona

Formation and evolution of paterae on Io – Alfred McEwen, advisor

1999 Master of Science in Geology, Brigham Young University

Distribution of calderas in the solar system – Eric Christiansen, advisor

1993 Bachelor of Science in Physics/ Astronomy, Brigham Young University

Solar physics and Saturn's magnetic field – Doug Jones, advisor

Employment

2019- Professor of Geological Sciences, Brigham Young University

2012-19 Associate Professor of Geological Sciences, Brigham Young University

2006-12 Assistant Professor of Geological Sciences, Brigham Young University

2005-06 Postdoctoral Research Associate, University of Arizona

Surface features of Titan from Cassini RADAR, Jonathan Lunine and Ralph Lorenz, advisors

Hotspots and paterae on Jupiter's moon Io, Alfred McEwen, advisor

Honors and Awards

2018 *Geological Society of America Fellow*

2016 Brigham Young University Sponsored Research Recognition Award

2015 Brigham Young University Department of Geological Sciences J. Keith Rigby Research Award, \$1,000 honorarium

2014 Kavli Fellow: Invited participant in National Academy of Sciences and Chinese Academy of Sciences Kavli Symposium of young scientists, Beijing, China

2014 Scholarship Award, Brigham Young University Faculty Women's Association, publication record, scholarship at professional meetings, established reputation as a scholar

2006 United States Antarctic Service Medal

Major Current Projects

Dune studies on Saturn's moon Titan and Pluto: shapes and interaction with winds, field studies in Western Australia (2016), the United Arab Emirates (2015, 2012), the Namib Sand Sea (2013)

Yardang (wind-carved ridges) studies on Earth, Mars and Titan: morphologies and comparison with winds, and field studies in the Argentine Puna (2019, 2018, 2015), Iran (2016) and China (2013)

Volcanic and tectonic landforms on Io and lava lake temperatures: Field studies using handheld thermal cameras in Ethiopia (2018, 2011), Kilauea (1998-2018), Vanuatu (2014)

Field assistant for meteorite recovery to the NASA Antarctic Search for Meteorites Program (ANSMET) 2016-2017, 2013-2014, 2008-2009, 2005-2006

Spacecraft Mission Involvement

Total value of mission funds to BYU (pending selection): ~\$2 million

Science Team Member, *Dragonfly* Rotorcraft lander for Titan (NASA New Frontiers Proposal, \$1 billion, \$1.8 million to BYU), AWARDED June 2019

Science Team Member, *The Io Volcano Observer* (NASA Discovery Proposal, \$550 million, \$1.1 million to BYU), Step-2 proposal submitted Nov. 2020

Associate Team Member, NASA *Cassini* RADAR instrument, studies of Titan, 2009-2017

Graduate Student for NASA *Galileo* Mission, Io studies and observation planning, 1999-2005

Major Funding Awarded

Total value of external funds to BYU: \$2,952,997

- 5/2020-21 NASA Habitable Worlds, *Interior life of Dunes*, Shannon MacKenzie PI, \$2,000
- 2/2020 BYU College FAST Grant, *Carbon-Rich Extrasolar Planets and Tanzania*, \$24,050
- 4/2020-21 NASA Spacegrant Higher Education Minigrant, \$11,459
- 9/2019-38 NASA *Dragonfly* mission team member, \$1,789,706
- 9/2018-22 NASA Mapping and Planetary Spatial Infrastructure cooperative agreement, \$192,297
- 9/2018-21 NASA Solar System Workings program, Solar System Yardangs, \$232,166
- 1/2017 BYU Mentored Environment Grant, *Wind-dominated Titan and analogues*. \$19,750
- 1/2015-16 BYU Graduate Studies Mentoring Award, *Dunes of Titan and the UAE*, \$15,000
- 6/2012-15 NASA Outer Planets Research program, Sand seas of Titan, \$335,322
- 9/2009-12 NASA Outer Planets Research program, Winds and dunes of Titan, \$232,594
- 6/2008-11 NASA Cassini Data Analysis program, Temperatures of Io volcanoes, \$103,829

Student Advising

Graduate Student Researchers, Primary Advisor:

- Ben Lake – collection of sand in sand seas on Titan – entered fall 2019
- Dylan McDougall – yardangs on Earth, Mars, Titan – entered fall 2018
- Corbin Lewis – dune parameter analysis on Titan – MS geology 2018
- Dustin Northrup – yardangs on Earth and Titan – MS geology 2018
- Bradley Bishop – sand seas of Titan from Cassini Radar – MS program geology; awarded \$19,750 for BYU Graduate College field studies
- T.J. Slezak – paterae on Io – MS geology 2017
- Alexandra Ahern – paterae and mountains on Io – MS geology 2016; awarded \$3000 and \$3000 by NASA Spacegrant Consortium
- Karl Arnold – sand seas on Titan from Cassini Radar – MS geology 2014
- Megan Decker – formation of paterae on Io – MS geology 2014; awarded College MEG for \$5,000 to build a patera model
- Zac Liu – mountains on Titan from Cassini Radar – MS geology 2014; awarded \$15,000 from BYU Graduate College for his research
- Chris Savage – dunes on Titan from Cassini Radar – MS geology 2011
- Daniel Allen – acting advisor – temperatures of Io volcanoes from Cassini – MS Physics 2009

Committee member for:

- Susan Larsen 2007, Nicole Cox 2013, Maria Slack 2009, Jason Luke 2011, Landon Burgener 2012, Shawn Wiggins 2012, George Jennings 2014, Josh Maurer 2014, Amanda Henderson 2014, Clayton Chandler 2015, Durban Keeler 2015, Jeff Valenza 2016, David Little 2016, Preston Cook 2016, Braxton Spilker 2019, April Trevino 2019, Nicole Ortiz 2020, Scott George, PhD Biology 2021, Brandon Turner, PhD Chemistry 2021, Josh Vawdrey, PhD Physics 2022, Saul Ramirez, MS Engineering 2022, Claire Ashcraft 2021, Stephanie Latour 2021, Logan Ellis, MS Biology 2022, Haley Mosher 2022, Andrea Smoot 2021

Undergraduate Student Researchers:

- Rowan Huang (17-) – shapes of volcanic craters in the solar system
- Delaney Rose (19-) – dune morphometry on Titan
- Jonathon Sevy (18-) – yardangs of the Argentinian Puna
- Emma Morrison (19-20) – crack distribution in the Puna ash
- Caleb Smith (18-19) – geography – predicted locations of meteorites in Utah using GIS
- Rudger Dame (17-19) – roughness of playa surfaces in Ethiopia for Mars and Titan
- Sam Martin (17-19) – parameters of dunes in Titan's sand seas

Will Oldroyd (15-18) – stability of meteorites on ice sheets
 Bryn Watkins (17) – studies of active volcanism in Hawaii, relationship to Io
 Gage Pallo (16-17) – measurements of dunes and yardangs on Titan and Earth
 Mitchell Hatfield (16-17) – field data analysis for Australian Outback samples, OSL, microprobe
 Bryan Fowler (15-16) – field studies of GPR of dunes in the UAE, yardangs in the Puna
 Corbin Lewis (14-15) – dune parameter analysis on Titan
 Dustin Northrup (14-15) – yardangs in China
 Ethan Payne (14-16) – Io patera model
 Jacob Woodard (14)
 David MacKay (14-17) – mountains on Titan
 Brigitte Williams Stewart (13-14) – dune parameter analysis on Titan
 Becky Johnston (11-13) – mountain distribution on Titan, crater chains on Rhea
 John Smith (12-13) – model for patera formation on Io
 Tanner Mills (11-13) – dune parameter analysis on Titan
 Rob Windell (11) – surface features of Io
 Karl Arnold (10-11) – distribution of dune fields on Titan
 Chris Savage (08-11) – pattern analysis of Titan dunes; awarded \$1500 ORCA Mentoring Grant 2009
 Brandon Barth (08-11) – patera distributions on Io
 Colton Goodrich (09-10) – Titan dune statistics
 Kirk Schleiffarth (09-11) – Tectonic geomorphology of Io
 Chris Spencer (07-08) – dunes on Titan and terrestrial analogues
 Parker Valora (07-08) – distribution of mountains and rivers on Titan

External Student Advising:

Giang Nguyen (18-19) – polar dune-like landforms on Mars, student of John Moores, York U.
 Lauren Schurmeier (17-18) – Cryovolcanism on Titan, student of Andrew Dombard, U. of Illinois
 Sam Birch (16-) – alluvial fans of Titan from Cassini, student of Alex Hayes at Cornell University
 Rajani Dhingra (17-) – lakes of Titan from Cassini, is a student of Jason Barnes at U. of Idaho
 Shannon Mackenzie (15-) – the surface of Titan from Cassini, is a student of Jason Barnes at U. of Idaho. She participated in field work in the UAE, Western Australia, and central Utah
 Mike Malaska (09-) – rivers, karst, dune compositions on Titan. Mike began as an amateur planetary scientist and is now a research scientist at NASA JPL
 Terik Daly (07-) – advised on undergraduate pursuits and projects, presentation of research and introduction to planetary community, choice of graduate schools, now at JHUAPL

Courses Taught

Geology of the Planets Online – Fall 2019-2020, Winter 2021
 Geology of the Planets (Geol 109) – Winter 2007-2020
 Solid Earth Geophysics (Geol 440) – Winter 2007-2020
 Geomorphology (Geol 411) – Fall 2008-2015, 2017-2020
 Introductory Geology (Geol 101) – Spring 2008, 2009, Fall 2010, 2014(H)
 Planetary Geology Readings Seminar (Geol 490R/590R) – Fall 2011, 2015, 2017
 Field Camp (Geol 410) – Spring 2010, 2011, 2014, 2016, 2019, 2020 (Mars mapping)
 Hamblin Field Course Seminar (Geol 490R/590R) – Winter-Summer 2007, 2009, 2012, 2013
 Planet Earth (Geol 601) – Fall 2012, 2018
 Geology for Elementary Education (PS110B) – Fall 2009
 Department Seminar (Geol 491R/591R) – Fall 2008
 Physical Science 100 (Phys100) – Spring 2015, 2017
 Guest lecturer for Introduction to Geology (Geo 101 – Spring 2007, Winter 2008, Fall 2008),
 Introduction to Astronomy (Phys 127 – Winter 2008), Dinosaurs (Geo 100 – Fall 2008), Physical
 Geology (Geo 111 – Fall 2007), Physical Science 100 (Fall 2010)

Peer-Reviewed Publications

- 94) Chandler, C.K., **J. Radebaugh**, J.H. McBride, T.H. Morris, C. Nartreau, K. Arnold, R.D. Lorenz, J.W. Barnes, A. Hayes, S. Rodriguez, and T. Rittenour. Near-surface structure of a large linear dune and an associated crossing dune of the northern Namib Sand Sea from Ground Penetrating Radar: Implications for the history of large linear dunes on Earth and Titan. *Aeolian Research*, in revision.
- 93) Schurmeier, L.R., A.J. Dombard, **J. Radebaugh**. Investigating the Support of Titan's Large Mountain Plateaus. *Icarus*, in revision.
- 92) Slezak, T.J., **J. Radebaugh**, E.H Christiansen and M. Belk. Classification of Planetary Craters using Outline-based Morphometrics. *Journal of Volcanology and Geothermal Research* 407, 107102.
- 91) Wood, C.A. and **J. Radebaugh** 2020. Morphologic evidence for volcanic craters near Titan's north polar region. *Journal of Geological Sciences – Planets*, <https://doi.org/10.1029/2019JE006036>.
- 90) Solomonidou, A., A. Le Gall, M.J. Malaska, S.P.D. Birch, R.M.C. Lopes, A. Coustenis, S. Rodriguez, S.D. Wall, R.J. Michaelides, M.R. Nasr, C. Elachi, A.G. Hayes, J.M. Soderblom, A.M. Schoenfeld, C. Matsoukas, P. Drossart, M.A. Janssen, K.J. Lawrence, O. Witasse, J. Yates and **J. Radebaugh** 2020. Spectral and emissivity analysis of the raised ramparts around Titan's northern lakes. *Icarus*. <https://doi.org/10.1016/j.icarus.2019.05.040>
- 89) Malaska, M.J., **J. Radebaugh**, R.M.C. Lopes, K.L. Mitchell, T. Verlander, A.M. Schoenfeld, M.M. Florence, A. Le Gall, A. Solomonidou, A.G. Hayes, S.P.D. Birch, M.A. Janssen, L. Schurmeier, T. Cornet, C. Ahrens, T.G. Farr, and the Cassini RADAR Team 2020. Labyrinth terrain on Titan. *Icarus* 344, 113764, <https://doi.org/10.1016/j.icarus.2020.113764>
- 88) Nguyen, G. T., **J. Radebaugh**, A. Innanen and J. E. Moores 2020. A survey of small-scale (<50 m) surface features on the Martian north polar cap using HiRISE. *Planetary and Space Sciences* 182, 104809, <https://doi.org/10.1016/j.pss.2019.104809>.
- 87) Lopes, R.M.C., M.J. Malaska, A.M. Schoenfeld, A. Solomonidou, S.P.D. Birch, M. Florence, A.G. Hayes, D.A. Williams, **J. Radebaugh**, T. Verlander, E.P. Turtle, A. Le Gall, and S.D. Wall 2020. A global geomorphologic map of Saturn's moon Titan. *Nature Astronomy* 4, 228-233.
- 86) Dhingra, R.D., J.W. Barnes, M.M. Hedman and **J. Radebaugh**. Using Elliptic Fourier Descriptor Analysis (EFDA) to quantify Titan lake morphology 2019. *The Astronomical Journal* 158, <https://doi.org/10.3847/1538-3881/ab4907>.
- 85) Lopes, R.M.C., S. Wall, C. Elachi, S. Birch, P. Corlies, A. Coustenis, A. Hayes, J. Hofgartner, M. Janssen, R. Kirk, A. LeGall, R. Lorenz, J. Lunine, M. Malaska, M. Mastroguiseppe, G. Mitri, K. Neish, C. Notarnicola, F. Paganelli, P. Paillou, V. Poggiali, **J. Radebaugh**, S. Rodriguez, A. Schoenfeld, J. Soderblom, A. Solomonidou, E. Stofan, B. Stiles, F. Tosi, E. Turtle, R. West, C. Wood, H. Zebker, J. Barnes, D. Casarano, P. Encrenaz, T. Farr, C. Grima, D. Hemingway, O. Karatekin, A. Lucas, K. Mitchell, G. Ori, R. Orosei, P. Ries, D. Riccio, L. Soderblom, Z. Zhang 2019. Titan as Revealed by the Cassini RADAR. *Space Science Reviews* 215, p.33, <https://doi.org/10.1007/s11214-019-0598-6>.
- 84) Telfer, M.W., **J. Radebaugh**, B. Cornford and C. Lewis 2019. Long Wavelength Sinuosity on Linear Dunes on Earth and Titan, and Implications for Topography. *Journal of Geophysical Research – Planets*. <https://doi.org/10.1029/2019JE006117>
- 83) Lopes, R.M.C., T.K.P. Gregg, A. Harris, **J. Radebaugh**, P. Byrne and L. Kerber 2018. Extraterrestrial Lava Lakes. *Journal of Volcanology and Geothermal Research* 366, 74-95, <https://doi.org/10.1016/j.jvolgeores.2018.09.010>.
- 82) Rodriguez, S., S. Le Mouélic, J.W. Barnes, J.F. Kok, S.C.R. Rafkin, R.D. Lorenz, B. Charnay, **J. Radebaugh**, C. Nartreau, T. Cornet, O. Bourgeois, A. Lucas, P. Rannou, C.A. Griffith, A. Coustenis, T. Appéré, M. Hirtzig, C. Sotin, J.M. Soderblom, R.H. Brown, J. Bow, G. Vixie, L. Maltagliati, S. Courrech du Pont, R. Jaumann, K. Stephan, K.H. Baines, B.J. Buratti, R.N. Clark, P.D. Nicholson 2018. Observational evidence for active dust storms on Titan at equinox. *Nature Geoscience*, <https://doi.org/10.1038/s41561-018-0233-2>.

- 81) Telfer, M.W., E.J.R. Parteli, **J. Radebaugh**, R.A. Beyer, T. Bertrand, F. Forget, F. Nimmo, W.M. Grundy, J.M. Moore, S.A. Stern, J. Spencer, T.R. Lauer, A.M. Earler, R.P. Binzel, H.A. Weaver, C.B. Olkin, L.A. Young, K. Ennico, K. Runyon and The New Horizons Geology, Geophysics and Imaging Science Theme Team 2018. Dunes on Pluto. *Science* 360, 992-997.
- 80) Brossier, J.F., S. Rodriguez, T. Cornet, A. Lucas, **J. Radebaugh**, L. Maltagliati, S. Le Mouélic, A. Solomonidou, A. Coustenis, M. Hirtzig, and R. Jaumann 2018. Geological Evolution of Titan's Equatorial Regions: Possible Nature and Origin of the Dune Material. *Journal of Geophysical Research: Planets*. <https://doi.org/10.1029/2017JE005399>.
- 79) Solomonidou, A., A. Coustenis, R. M. C. Lopes, M. J. Malaska, S. Rodriguez, P. Drossart, C. Elachi,, B. Schmitt, S. Philippe, M. Janssen, M. Hirtzig, S. Wall, C. Sotin, K. Lawrence, N. Altobelli, E. Bratsolis, **J. Radebaugh**, K. Stephan, R. H. Brown, S. Le Mouélic, A. Le Gall, E. V. Villanueva, J. F. Brossier, A. A. Bloom, O. Witasse, C. Matsoukas, A. Schoenfeld 2018. The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. *Journal of Geophysical Research: Planets* 123, 489-507.
- 78) Matson, D.L., A.G. Davies, T.V. Johnson, J-P Combe, T.B. McCord, **J. Radebaugh**, S. Singh 2017. Enceladus' near-surface CO₂ gas pockets and surface frost deposits. *Icarus* 302, 18-26.
- 77) Ahern, A.A., **J. Radebaugh**, E.H Christiansen, S. Tass and R. Harris 2017. Lineations and Structural Mapping of Io's Paterae and Mountains: Implications for Internal Stresses. *Icarus* 297, 14-32.
- 76) Diniega, S., M. Kreslavsky, **J. Radebaugh**, S. Silvestro, M. Telfer and D. Tirsch 2017. Our evolving understanding of aeolian bedforms, based on observation of dunes on different worlds. *Aeolian Research* 26, 5-27.
- 75) Lorenz, R.D. and **J. Radebaugh** 2016. Dust Devils in thin air: Vortex observations at a high elevation Mars analog site in the Argentinean Puna. *Geophysical Research Letters*, 10.1002/2015GL067412.
- 74) **Radebaugh, J.**, R.M. Lopes, R.D. Howell, R.D. Lorenz and E.P. Turtle 2016. Eruptive behavior of the Marum/Mbwelesu lava lake, Vanuatu and comparisons with lava lakes on Earth and Io. *Journal of Volcanology and Geothermal Research* 322, 105-113.
- 73) Turtle, E.P., R.M.C. Lopes, R.D. Lorenz, **J. Radebaugh** and R.R. Howell 2016. Temporal Behavior and Temperatures of Yasur Volcano, Vanuatu from field remote sensing observations, May 2014. *Journal of Volcanology and Geothermal Research* 322, 158-167.
- 72) Lorenz, R.D., E.P. Turtle, R. Howell, **J. Radebaugh** and R.M.C. Lopes 2016. The Roar of Yasur: Handheld audio recorder monitoring of Vanuatu volcanic vent activity. *Journal of Volcanology and Geothermal Research* 322, 168-174.
- 71) Lorenz, R.D. and **J. Radebaugh** 2016. To Titan, via Namibia. *Communications of the Geological Survey of Namibia*, 17, 1-15.
- 70) Birch, S.P.D., A.G. Hayes, A.D. Howard, J.M. Moore and **J. Radebaugh** 2016. Alluvial Fan Morphology, Distribution and Formation on Titan. *Icarus* 270, 238-247.
- 69) Liu, Z.Y.-C., **J. Radebaugh**, R.A. Harris, E.H Christiansen and S. Rupper 2016. Role of Fluids in the tectonic evolution of Titan. *Icarus* 270, 2-13.
- 68) Liu, Z. Y-C., **J. Radebaugh**, R.A. Harris, E.H Christiansen, C.D. Neish, R.L. Kirk, R.D. Lorenz and the Cassini RADAR Team 2016. The tectonics of Titan: Global structural mapping from Cassini RADAR. *Icarus* 270, 14-29.
- 67) **Radebaugh, J.**, D. Ventra, R.D. Lorenz, T. Farr, R. Kirk, A. Hayes, M.J. Malaska, S. Birch, Z. Y-C. Liu, J. Lunine, J. Barnes, A. Le Gall, R. Lopes, E. Stofan, S. Wall and P. Paillou 2016. Alluvial and fluvial fans on Saturn's moon Titan reveal processes, materials and regional geology. *In*, Ventra, D. & Clarke, L. E. (eds) *Geology and Geomorphology of Alluvial and Fluvial Fans: Terrestrial and Planetary Perspectives*. Geological Society, London, Special Publications, 440, <http://doi.org/10.1144/SP440.6>
- 66) Lopes, R.M.C., M.J. Malaska, A. Solomonidou, A. Le Gall, M.A. Janssen, C.D. Neish, E.P. Turtle, S.P.D. Birch, A.G. Hayes, **J. Radebaugh**, A. Coustenis, A. Schoenfeld, B.W. Stiles, R.L. Kirk,

- K.L. Mitchell, E.R. Stofan and K.J. Lawrence 2016. Nature, distribution and origin of Titan's undifferentiated plains. *Icarus* 270, 162-182.
- 65) Malaska, M.J., R.M. Lopes, A.G. Hayes, **J. Radebaugh**, R.D. Lorenz and E.P. Turtle 2016. Material transport map of Titan: The fate of dunes. *Icarus* 270, 183-196.
- 64) Malaska, M.J., R.M.C. Lopes, D.A. Williams, C.D. Neish, A. Solomonidou, J.M. Soderblom, A.M. Schoenfeld, S.P.D. Birch, A.G. Hayes, A. Le Gall, M.A. Janssen, T.G. Farr, R.D. Lorenz, **J. Radebaugh** and E.P. Turtle 2016. Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. *Icarus* 270, 130-161.
- 63) Janssen, M.A., A. Le Gall, R.M. Lopes, R.D. Lorenz, M.J. Malaska, A.G. Hayes, C.D. Neish, A. Solomonidou, K.L. Mitchell, **J. Radebaugh**, S.J. Keihm, M. Choukroun, C. Leyrat, P.J. Encrenaz and M. Mastrogiuseppe 2016. Titan's surface at 2.18-cm wavelength imaged by the Cassini RADAR radiometer: Results and interpretations through the first ten years of observation. *Icarus* 270, 443-459.
- 62) Paillou, P., B. Seignovert, **J. Radebaugh** and S. Wall 2016. Radar scattering of linear dunes and mega-yardangs: Application to Titan. *Icarus* 270, 211-221.
- 61) Titus, T., J. Zimelman and **J. Radebaugh** 2015. The Importance of Dunes on a Variety of Planetary Surfaces. Report on the 4th International Planetary Dunes Workshop, EOS 96, doi: 10.1029/2015EO034201.
- 60) Cook-Hallett, C., J. W. Barnes, S. A. Kattenhorn, T. Hurford, **J. Radebaugh**, B. Stiles and M. Beuthe 2015. Global contraction/expansion and polar lithospheric thinning on Titan from patterns of tectonism. *Journal of Geophysical Research* 10.1001/2014JE004645.
- 59) Barnes, J.W., R.D. Lorenz, **J. Radebaugh**, A.G. Hayes, K. Arnold, C. Chandler 2015. Production and global transport of Titan's sand particles. *Planetary Science* 4, 1-19.
- 58) Carling, G., **J. Radebaugh**, T. Saito, R.D. Lorenz, A. Dangerfield, D.G. Tingey, J.D. Keith, J.V. South, R.M. Lopes and S. Diniega 2015. Temperatures, thermal structure and behavior of eruptions at Kilauea and Erta Ale volcanoes using a consumer digital camcorder. *GeoResJ* 5, 47-56, doi:10.1016/j.grj.2015.01.001.
- 57) Veeder, G.J., A.G. Davies, D.L. Matson, T.V. Johnson, D.A. Williams and **J. Radebaugh** 2015. Io: Heat flow from small volcanic features. *Icarus* 245, 379-410.
- 56) **Radebaugh, J.**, P. Sharma, J. Korteniemi and K.E. Fitzsimmons 2014. Longitudinal/Linear Dune, *Encyclopedia of Planetary Landforms*, Springer, p. 1-12.
- 55) Lopes, R. and **J. Radebaugh** 2014. Erta Ale and the Danakil Rift Zone. In: *Volcano Tourist Destinations* (edited by P. Erfurt-Cooper), doi: 10.1007/978-3-642-16191-9_23, Springer-Verlag Berlin Heidelberg, pp. 307-314.
- 54) McBride, J., C. Hazard, S. Ritter, T. Morris, D. Tingey, B. Keach, **J. Radebaugh**, C. Chandler, K. Arnold, and G. Wolfe 2014. Seeing is Believing: GPR Enhances Analogs. *Explorer Magazine*, AAPG, Geophysical Corner, p. 44-47.
- 53) Hofgartner, J.D., A.G. Hayes, J.I. Lunine, H. Zebker, B.W. Stiles, C. Sotin, J.W. Barnes, E.P. Turtle, K.H. Baines, R.H. Brown, B.J. Bruatti, R.N. Clark, P. Encrenaz, R.D. Kirk, A. Le Gall, R.M. Lopes, R.D. Lorenz, M.J. Malaska, K.L. Mitchell, P.D. Nicholson, P. Paillou, **J. Radebaugh**, S.D. Wall and C. Wood 2014. Transient features in a Titan sea. *Nature Geoscience*, DOI:10.1038/NCEO2190.
- 52) Savage, C. J., **J. Radebaugh**, E. H Christiansen and R. D. Lorenz 2014. Implications of dune pattern analysis for Titan's surface history. *Icarus* 230, 180-190.
- 51) Rodriguez, S., A. Garcia, A. Lucas, T. Appéré, A. Le Gall, E. Reffet, L. Le Corre, S. Le Mouélic, T. Cornet, S. Courrech du Pont, C. Narteau, O. Bourgeois, **J. Radebaugh**, K. Arnold, J.W. Barnes, C. Sotin, R.H. Brown, R.D. Lorenz, E.P. Turtle 2014. Global mapping and characterization of Titan's dune fields with Cassini: correlation between RADAR and VIMS observations. *Icarus* 230, 168-179.
- 50) Paillou, Ph., D. Bernard, **J. Radebaugh**, R. Lorenz, A. Le Gall, T. Farr 2014. Modeling the SAR backscatter of linear dunes on Earth and Titan. *Icarus* 230, 208-214.

- 49) **Radebaugh, J** 2013. Dunes on Saturn's moon Titan at the end of the Cassini Equinox Mission. *Aeolian Research* 11, 23-41.
- 48) Lorenz, R.D., N. Gasmí, **J. Radebaugh**, J.W. Barnes, and G.G. Ori 2013. Dunes on planet Tutooine: Observation of barchans migration at the Sar Wars film set in Tunisia. *Geomorphology* 201, 264-271.
- 47) Allen, D.A., **J. Radebaugh** and D. Stephens 2013. Temperature and variability of Pillan, Wayland Patera, and Loki Patera on Io from Cassini ISS data. *Icarus* 226, 77-88.
- 46) Hamilton, C. W., C. Beggan, S. Still, M. Beuthe, R. Lopes, D. Williams, **J. Radebaugh** and W. Wright 2013. Spatial distribution of volcanoes on Io: implications for tidal heating and magma ascent. *Earth and Planetary Science Letters* 361, 272-286.
- 45) Lopes, R.M.C., R. L. Kirk, K.L. Mitchell, A. Le Gall, J. W. Barnes, A. Hayes, J. Kargel, L. Wye, **J. Radebaugh**, E.R. Stofan, M. A. Janssen, C. D. Neish, S. D. Wall, C.A. Wood, J.I. Lunine and M. Malaska 2013. Cryovolcanism on Titan: New results from Cassini RADAR and VIMS, *Jour Geophys. Res. Planets*, DOI: 10.1002/jgre.20062.
- 44) Veeder, G.J., A.G. Davies, D.L. Matson, T.V. Johnson, D.A. Williams, **J. Radebaugh** 2012. Io: Volcanic thermal sources and global heat flow. *Icarus* 219, 701-722.
- 43) Le Gall, A., A.G. Hayes, R. Ewing, M.A. Janssen, **J. Radebaugh**, C. Savage, P. Encrenaz and the Cassini RADAR Team 2012. Latitudinal and altitudinal controls of Titan's dune field morphometry. *Icarus* 217, 231-242.
- 42) Barnes, J.W., L. Lemke, R. Foch, C.P. McKay, R.A. Beyer, **J. Radebaugh** and 25 others 2011. AVIATR – Aerial Vehicle for In-situ and Airborne Titan Reconnaissance, A Titan airplane mission concept. *Experimental Astronomy*, DOI10.1007/s10686-011-9275-9.
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- Ahern, A. 2016. Lineations and Structural Mapping of Io's Paterae and Mountains: Implications for Internal Stresses. Masters Thesis, Brigham Young University, 64 pp.
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- Arnold, K. 2014. Sand Sea Extents and Sediment Volumes on Titan from Dune Parameters. Masters Thesis, Brigham Young University.
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External Leadership/Service

2016-2021 Chair of MAPSIT: Mapping and Planetary Spatial Infrastructure Team. Community assessment group reporting directly to NASA HQ for broad community use of spatial data. Several meetings/year, primary authorship of the first roadmap, discussion with community

2014- Lunar and Planetary Laboratory (University of Arizona) advisory board member

2019- Icarus Journal Editorial Board Member, elected by the DPS Committee

2015- International Planetary Dunes workshop co-organizer (bi-annual)

2021 Reviewer for NASA MDAP proposals, 1 week panel, honoraria

2020 Member of NASA Equity, Diversity and Inclusivity flagship committee

2020 Reviewer for NASA HW proposals, 1 week panel, honoraria

2020 Reviewer for Icarus, Geophysical Research Letters, Earth and Planetary Science Letters, the Planetary Science Journal, the ACS Petroleum Research Fund, Tenure review, Journal of Geophysical Research – Planets, Israel Science Foundation, Pluto System After New Horizons book chapters

2020 Reviewer, Dutch Planetary and Exoplanetary Science Programme (PEPSci), travel, honoraria

2019 External reviewer for NASA Mars MDAP proposals, reviewer for Icarus

2019 Co-authored NASA mission study papers, Io The Next Generation (PI James Keane), Pluto Kuiper Explorer (PI Carly Howett), Titan Orbiter (PI Jason Barnes)

2018 NASA SIMPLEX Science Review Panel chair for subset of mission proposals (\$55 million cap)

2018 International Conference on Aeolian Research co-organizer, Bordeaux, France, 25-30 June 2018

2018 Reviewer for Journal of Geophysical Research – Planets, Geophysical Research Letters

2017 Session Chair, Planetary Data Posters, American Geophysical Union Meeting, New Orleans.

2017 NASA Solar System Workings Proposals external reviewer, Reviewer for Journal of Geophysical Research-Planets, Remote Sensing of the Environment

2017 Local Organizing Committee Chair, Division for Planetary Sciences of the American Astronomical Society Annual Meeting ~800 international attendees in Provo, Oct 2017

2017 International Planetary Dunes workshop co-organizer, St. George, UT

2016-17 Member, NASA Planetary Science Subcommittee, advisory board to Planetary Science Division Chief

2008-16 OPAG (Outer Planets Assessment Group) NASA advisory panel steering committee member

2013-16 DPS (Division of Planetary Sciences of the American Astronomical Society) committee member

2013-16 Planetary GIS Advisory Group Steering Committee member, USGS Astrogeology Division

2015 Discovery Program Technical, Management and Cost Instrument reviewer, 27 proposals

2015 Reviewer for Journal of Geophysical Research-Planets, Geophysical Research Letters, Icarus, Elsevier book proposal review

2014-15 Europa spacecraft mission instrument proposals lead science reviewer (surface panel)

2014 External reviewer for NASA Solar System Workings proposals

2014 Chair, Technical (TMC) Review Panel for eight NASA Mars2020 Rover instrument proposals, reviewer for all 58 instruments

2014 External reviewer for NASA Outer Planets Research Program proposals

2014 Reviewer for Icarus, Planetary and Space Science, Remote Sensing of the Environment

2013 Reviewer for Nature, Quaternary International, Icarus

2013 External reviewer for NASA Outer Planets Research Program

- 2007-13 Judge for Dornik student paper award at the Lunar and Planetary Science Conference, Houston
- 2012 Science lead reviewer for NASA instrument proposals for ESA-led JUICE mission
- 2012 Co-organized Radar in planetary sciences session, IGC (International Geological Congress), Brisbane, Australia
- 2012 Science panel lead for NASA Discovery 2012 proposal for TiME (Titan Mare Explorer),** reviewer for InSight (Mars geophysics), CHopper (Comet Hopper)
- 2012 External reviewer for NASA Outer Planets Research Program
- 2012 Reviewer for Icarus
- 2011 Co-organized planetary geology session, IAG (International Association of Geomorphologists), Addis Ababa, Ethiopia meeting
- 2011 External reviewer for NASA Mars Fundamental Research Program
- 2011 Reviewer for Geophysical Research Letters, Geological Society of America Bulletin, Icarus
- 2010 Organized Io Workshop, 30 participants, 2-day workshop with field trip, Sponsored by BYU and NASA Outer Planets Research Program, Provo, UT
- 2010 Coauthored white paper on Io Exploration (first author David A. Williams), NASA Decadal Survey
- 2010 External reviewer for NASA Outer Planets Research Program
- 2010 Reviewer for Icarus, twice
- 2006 Review Panel participant, NASA Planetary Geology and Geophysics Program
- 2007 Organizing committee member for NASA-sponsored workshop, Ices, Oceans, and Fire: Satellites of the Outer Solar System, Boulder, CO
- 2009 Co-chair of Titan's Surface session, Lunar and Planetary Science Conference, Houston
- 2009 Reviewer for Icarus, Nature Geoscience, Planetary and Space Science, Journal of Volcanology and Geothermal Research, Geophysical Research Letters
- 2008 Reviewer for Geophysical Research Letters, Book review for Meteoritics and Planetary Science
- 2007 Co-chair of Titan's Surface session, Division of Planetary Sciences of the American Astronomical Society fall meeting
- 2006 Icarus, Journal of Geophysical Research
- 2005 Springer/Praxis Book Reviewer

University/Departmental Service

- 2020- Department Undergraduate Advisor
- 2019 University Dean search committee member
- 2019 Dept student and alumni field trip to Hawaii, co-leader and planner, Aug. 2019
- 2018-19 College field trip to Rome temple, co-leader and planner, January 2019
- 2014-19 Alumni Relations Departmental Committee Member
- 2016-19 University Faculty Advisory Council / Research Subcommittee member**
- 2018 Dept student field trip to Hawaii, co-leader and planner, canceled due to volcanic activity
- 2015-19 Travel Safety Planning Departmental Committee Member
- 2015-19 Curriculum Committee Departmental Committee Member
- 2014-18 Learning Outcomes Departmental Committee Member
- 2015-17 Brigham Young University Faculty Women's Association College Representative
- 2015-17 Learning Outcomes program reviews College Committee Member
- 2017 Member of Task Force to understand reasons faculty at BYU delay promotion to full
- 2015 Dept alumni fundraiser field trip, helped plan, to Italy/Switzerland, held 2017
- 2012-14 Department committee chair for Hamblin Global Geology field trips
- 2014 Co-led BYU Hamblin Global Geology student field trip to Bahamas (35 students)
- 2013 Reviewed BYU Scholarly and Creative Works Grant Proposals
- 2013 Co-led BYU Hamblin Global Geology alumni field trip to England for History of Geology (17 participants)

2007-12 Department representative for College of Physical and Mathematical Sciences Student Research Conference; helped plan and organize sessions and recruit judges

2010 Helped lead College of Physical and Mathematical Sciences Leadership Council field trip to Hawaii

2006-10 Member of Brigham Young University-wide task force on Learning Outcomes program implementation resulting from external accreditation recommendations

2003-04 President of the Graduate and Professional Student Council, University of Arizona, advocate for 9,000 graduate students to administration, state Regents and legislature

Invited Seminar/Meeting Talks

- 2020 University of Puerto Rico invited speaker, *Exploring the Solar System on Earth*
University of Santa Cruz Department of Earth and Planetary Sciences Whole Earth Seminar speaker, *Wind Dominated Landscapes of Earth, Mars, Titan and Pluto*
University of Utah Geology and Geophysics Distinguished Lecture Series, *The Surface of Saturn's Moon Titan from the Cassini and Dragonfly Missions*
- 2019 Brigham Young University Department of Physics and Astronomy, *The Surface of Saturn's Moon Titan from the Cassini and Dragonfly missions*
Brigham Young University's Honors Chocolate and Chat, *the NASA Cassini and Dragonfly missions to Titan – Saturn's Earth-like moon*
Brigham Young University's Honors Program Class, *the NASA Cassini and Dragonfly missions to Titan*
University of Washington Department of Physics Invited Colloquium, *Jupiter's Moon Io: Extreme Tidal and volcanic Wonderland*
- 2018 Argentine Meeting of Sedimentology Invited talk, *Formation of eolian landscapes on Titan*
Boise State University Department of Physics and Astronomy Invited seminar, *Dunes on Pluto*
Maxwell Institute Summer School BYU, Invited presentation, *Are we alone in the Universe?*
Technologies for Exo-Planetary Science student summer school Invited presentation, York University, held in Vancouver, BC, *Planetary Analogical Studies*
- 2017 New Horizons team Invited presentation, *Dunes and Wind Streaks of Pluto*
BYU incoming faculty seminar Invited talk, *Prioritizing Research in the Academy*
Titan Through Time meeting Invited review, *Aeolian Processes and Landforms of Titan*, NASA Goddard Space Flight Center
- 2016 Geological Society of America Annual Meeting Invited talk, *Dunes on Titan from the Cassini Mission*, Denver, CO
Plymouth University School of Geography, Invited brown bag, *Titan landforms and analogue field work*, Plymouth, UK
- 2015 American Museum of Natural History Invited seminar speaker, *Titan from the Cassini Mission*, New York City
- 2014 University of Arizona Lunar and Planetary Laboratory Invited seminar speaker, *The Surface of Titan from 10 Years of Cassini*
Kavli Symposium Beijing, Invited presenter, National Academies and Chinese National Academy of Sciences
Utah Valley University Dept of Earth Sciences Invited speaker, *The Surface of Titan from 10 Years of Cassini*
Lunar and Planetary Laboratory Advisory Board meeting Invited presenter, *The Antarctic Search for Meteorites Program 2013-2014 Field Season*
- 2013 Pardee Symposium, Geological Society of America meeting Invited speaker, From the Sahara to MARS and Beyond: The History and Future of Aeolian Research, *Dunes on Saturn's Moon Titan from Cassini: Morphology, composition and indicators of wind and climate*, Denver
Gobabeb Research Station, Namibia, *Studies of dunes in the Namib Sand Sea, comparisons with Titan*

- SBSR XVI Brazilian Remote Sensing Symposium Invited Speaker, Iguasu, Brazil, *Saturn's Moon Titan: Observations using RADAR and Near-Infrared*
 Cassini RADAR Science Team Meeting presentation, *Mountains on Titan*
- 2012 UC Santa Cruz Center for the Origin, Dynamics, and Evolution of the Planets, *The surface of Titan after eight years of Cassini Observations*
 University of Minnesota Institute for Astrophysics, *The surface of Titan after eight years of Cassini Observations*
 BYU Department of Physics and Astronomy, *The surface of Titan after eight years of Cassini Observations*
- 2011 BYU Library Conference, *Searching for Meteorites in the footsteps of Scott and Amundsen*
- 2009 BYU Department of Geological Sciences, *Titan's Mobile Surface*
 Caltech Geological and Planetary Sciences, *Titan's Mobile Surface*
 Planetary Science Institute, Tucson, *Titan's Mobile Surface*
 Utah Valley University's Earth Science Department, *Encounters at the Edge of the Solar System*
- 2008 University of Alberta Geophysics Group, *Encounters at the Edge of the Solar System*
 American Association of Physics Teachers Annual Meeting, Edmonton, *Satellites of the Outer Solar System: Glimpses of Earth*
- 2007 University of Utah Department of Geology and Geophysics, *Saturn's moon Titan from Cassini Radar*
 University of Wyoming Department of Geology and Geophysics Distinguished lecturer series, *Dunes and Mountains on Titan from Cassini Radar*
 Brigham Young University Department of Physics and Astronomy, *The surface of Saturn's moon Titan as illuminated by Cassini Radar*
- 2005 Lunar and Planetary Laboratory Conference, Tucson, *Io at the end of the Galileo Era*

Invited Public Talks/Outreach

- 2021 Australian Science Innovations High School Summer School invited speaker, *Dragonfly: The Ultimate Field Geologist for Titan*
- 2020 Filmed congratulatory video for Alfred McEwen's nomination to Regents Professor, University of Arizona
 AGU Planetary Science Section video short on my research topics
 Authored paragraphs for Utah STEM Magazine
 American Museum of Science and Technology, Oak Ridge, TN, AMSEcast guest
 Filmed for BYU Museum of Art Victoria Sambunaris exhibit
 Delaware Valley Amateur Astronomers invited speaker, *The Windy Planets*, honorarium
 Connecticut stake virtual girls camp speaker
 Press on *Titan Polar Volcanism* paper with AGU, PSI, the Planetary Society, phys.org
 Quoted in *Scientific American* on Pluto, Jason Murugesu author, *Science News* on Titan
 Paleolakes, Lisa Grossman author,
 BYU Instagram Faculty Project and College short student encouragement clips
 Filmed for *How the Universe Works* Season 9, Science/Discovery Channel, Utah Lake and Little Sahara
 Filmed for BYU Magazine *A Thing of Beauty* series, Little Sahara Dunes, Utah
- 2019 State Department-sponsored talks in South Korea, on topics of space exploration
Spacefest X convention invited speaker, *Dragonfly to Titan*
 Film shoot field interviews, *How the Universe Works*, Season 8, Science/Discovery Channel, Pioneer Productions, UK, in Craters of the Moon, ID and Pineview, UT
 Hayden Planetarium New York City invited speaker, \$500 honorarium, *The Remarkable Cassini mission to Saturn*.
 Salt Lake Astronomical Society Invited Speaker, *Antarctica and the Solar System*

- Astronomy Days, Raleigh NC invited speaker, expenses paid, *The Cassini mission to Saturn, The Dragonfly mission to Titan*
 Traverse Mountain 6th graders, *Antarctica and the Solar System*, Lehi, UT
- 2018 Film shoot field interviews, *How the Universe Works*, Season 7, Science/Discovery Channel, Pioneer Productions, UK, in Salton Sea and Algodones dunes, CA
Spacefest IX convention invited speaker, Titan from Cassini and Dragonfly, and invited panelist, Space Exploration
 Press on *Dunes on Pluto*, including BYU homepage and film piece, Fox13 News film interview, BYU Radio “Top of Mind” interview, phone interviews for The Atlantic, Reuters, Washington Post, National Geographic, Deseret News
 Public talk, Boise, *Dunes on Pluto*
 Traverse Mountain 6th graders, *Antarctica and the Solar System*, Lehi, UT
 Ethiopian Europlanet Danakil field work press and contributed photos, Physics Today, etc.
 Salt Lake Astronomical Society Invited speaker, *Earth analogues for solar system studies*
 Utah Valley Astronomy Club Invited speaker, *Cassini and Dragonfly studies of Titan*
 BYU Radio Interview “Top of Mind” with Julie Rose on *Dragonfly* mission
 Daily Herald coverage of *Dragonfly* mission
- 2017 Benitez public lecture, Cal Polytechnic University, *The Cassini Grand Finale*, 360 attendees, honorarium, San Luis Obispo, CA
Spacefest VIII invited talk, *Trials and Triumphs of an Antarctic Meteorite Hunter*, Tucson, AZ
 Bonneville Elementary 6th graders, *Antarctica and the Solar System*, Orem, UT
 Subject of film shoot for *How the Universe Works*, Season 6, Science/Discovery Channel, Pluto/Mercury/Ceres episodes, Pioneer Productions, UK, in Mono Lake and Death Valley, CA
 Subject of film shoot for BBC2-Horizon, *End of Cassini Mission*, Mono Lake, CA
- 2016 *Spacefest VII* Invited talk, *Adventures in the Solar System*, Tucson, AZ
 Public talk to BYU Women faculty and guests, *Our Creator’s Cosmos*
 Subject of film shoot for *How the Universe Works*, Season 5, Science/Discovery Channel, Pluto/Mercury/Ceres episodes, Pioneer Productions, UK, filmed in Iceland
 Supporting scientist for film shoot for BBC2-Horizon, *Volcanism in the Solar System*, Kilauea
 Presenter for *Our Sacred Stewardship*, film for Bean Life Sciences Museum, BYU
- 2015 **TEDx talk, *Exploring to Discover*, Provo, UT**
Invited BYU university-wide forum, *We Explore so that we may Discover*
- 2014 *Spacefest VI* Invited talk, *Adventures in the Solar System*, Pasadena, CA
 Subject of a film shoot for *How the Earth Works*, Season 4, Science/Discovery Channel, Venus/Moon/Magnetics episodes, Pioneer Productions, UK, on Kilauea, HI, Orlando, FL
 KSL Radio show panelist, *A Woman’s View* with Amanda Dickson
 Invited speaker, *Space Explorers: The Antarctic Search for Meteorites Program*, Salt Lake Astronomical Society
 BYU Radio show, the Antarctic Search for Meteorites Program
 Lead blogger, the Antarctic Search for Meteorites Program, 2013-2014 field season
- 2013 Tunisian dune overruns Star Wars film set, international press includes:
<http://www.bbc.co.uk/news/science-environment-23375344>, <http://news.byu.edu/archive13-jul-starwars.aspx>, <http://www.sltrib.com/sltrib/news/56692676-78/radebaugh-dune-dunes-sand.html.csp>, <http://www.deseretnews.com/article/865583952/Dune-swallows-Star-Wars-Tatooine-set-in-Tunisia-at-rate-of-50-feet-per-year-BYU-professor-finds.html>
- 2013 Subject of a film shoot for *How the Earth Works*, Season 3, Science/Discovery Channel, Titan episode, Pioneer Productions, UK, Mono Lake, CA
Spacefest V Invited talk, *Adventures in the Solar System*
 Video interview on Titan and Io for The Open University Online Courses, 3/13
 Bonneville Elementary, *Antarctica and the Solar System*, 200 6th graders
 Timpview High School, *Antarctica and the Solar System*, 30 12th graders

- 2012 *Spacefest IV* Invited talk, *Adventures in the Solar System*
 National, international press related to publication of *Experimental Astronomy* Titan airplane paper, including: <http://news.byu.edu/archive12-jan-titanairplane.aspx> and front page local paper: http://www.heraldextra.com/news/local/central/provo/byu-professor-working-to-send-airplane-to-saturn-s-moon/article_7b4bf284-9dd9-5a85-acdc-53965b8548e9.html
 Life, the Universe and Everything Convention, *Adventures in the Solar System*
 Bonneville Elementary, *Antarctica and the Solar System*, 200 6th graders
 Orem Public Library, *The Antarctic Search for Meteorites and Planetary Results*
 Interviewed for BYU film segment on AVIATR, an airplane for Titan exploration
 Timpanogos Gem and Mineral Club, *Searching for Meteorites in the footsteps of Shackleton, Scott and Amundsen*
- 2011 *Spacefest III* Invited talk, *Encounters at the Edge of the Solar System*, a conference attended by hundreds including Apollo, Skylab, shuttle and space station astronauts
 Bonneville Elementary, *Antarctica and the Solar System*, 200 6th graders
- 2010 Invited talk to BYU's College of Physical and Mathematical Sciences Volunteer Leadership Council, *Adventures in the Solar System*
 Subject of BYU Communications student documentary
 Bonneville Elementary, *Antarctica and the Solar System*, 200 6th graders
- 2009 Invited public lecture for the International Year of Astronomy, *Alien Worlds of the Outer Solar System*, Brigham Young University Library
 Guest Blogger, The Planetary Society, *Terrestrial field studies of planetary processes*
 Filmed during field work on Australian dunes for National Geographic documentary series, *A Traveller's Guide to the Planets*
 Public talk at BYU planetarium, *Encounters at the Edge of the Solar System*
 Bonneville Elementary, *Antarctica and the Solar System*, 200 6th graders
 Local, national press related to publication of *Geophysical Research Letters* Global Pattern of Titan's Dunes, including <http://www.sciencedaily.com/releases/2009/03/090302111328.htm>
- 2008 Public talk to residents of McMurdo Station, Antarctica, *Encounters at the Edge of the Solar System*.
 Honorary lecturer for the Brigham Young University Library's annual Alice Louise Reynolds Women-in-Scholarship lecture, *Encounters at the Edge of the Solar System*. \$1000 honorarium
 Interviewed by the BBC4 for a radio presentation on Transient Lunar Phenomena
 Invited BYU student auxiliary services talk, *Antarctica and the Planets*
 Invited church youth talk, *Antarctica and the Planets*
 Interviewed for short film piece for KBYU: Mountains on Titan from Cassini Radar
 National, international press related to publication of *Icarus* mountains paper, including: <http://www.sciencedaily.com/releases/2007/12/071220223729.htm>
- 2007 Public talk at BYU planetarium, *Cassini explores the Saturn system*
 Interviewed about Nature publication on lakes on Titan, Utah press
- 2006 Invited talk BYU Kennedy International Center, *Antarctic Dreams: Still Life on The Ice with Meteorites*
 Interviewed for Utah Valley University radio show, *Hey, I can do that!* encouraging young women into science careers
 Brown bag seminar, Lunar and Planetary Laboratory, University of Arizona, *Antarctic Dreams: Still Life on The Ice with Meteorites*
 Invited lunch talk to retired men's group, Tucson, *Adventures in the Solar System: Antarctica, Titan, and Io*
 Radio interview CBC (Canadian Broadcasting Corporation), *Dunes on Titan*
 Interviews with UA and BYU press, the Discovery Channel online, and PBS, *Dunes on Titan*
- 2005 Interviewed by press in AZ, UT on participation in ANSMET, the Antarctic Search for Meteorites

2004 Interviewed for film segment for *The Planets*, a BBC/A&E co-production for the Science Channel, *Volcanoes on Io*

Field Experience Detail

- Annual – BYU Geology 411 geomorphology class 3-day field trip, Death Valley CA, 10-30 students
- 2019 Yardang shapes, materials, field relationships of the Altiplano-Puna of Argentina
Black Rock Desert, UT field equipment shakedown for Altiplano-Puna
Kilauea/Halemaumau crater and lower Puna flows post-collapse and post-eruption
Mount Pinatubo flood plain
Shyok Valley to Pangong Lake, Ladakh India
Quaternary lava flows, Black Rock Desert, UT, field geologic mapping for class
- 2018 Yardang shapes, materials, field relationships of the Altiplano-Puna of Argentina
Temperatures of Fissure 8 Kilauea eruption lava fountain, Hawaii
Salt flat response to RADAR and comparisons with Titan and Mars, lava lake temperatures and temporal behavior, Afar Valley, Ethiopia
- 2017 Temperatures and materials of liquid sulfur eruptions on Kawah Ijen, Java
Studies of active lava using portable remote sensing, Kilauea, HI
Field reconnaissance of lava flows and dark barchan dunes of central Utah's Black Rock Desert
BYU Geology 210 field trip to Black Rock Desert, faculty co-advisor
- 2016-17 Field assistant to the Antarctic Search for Meteorites (ANSMET), Elephant Moraine
- 2016 Yardang shapes, sizes, materials and field relationships of the Lut Desert of Iran
Salt glacier textures, erosion of the Zagros Mountains, Iran
Handheld remote sensing of active volcanism of Kilauea, Hawaii
Impact craters and linear dunes of the western Australian Outback
Volcanic landforms of Iceland
Dunes of the Erg Chebbi, Morocco
- 2015 Yardangs and dust devils in the Argentinian Puna
GPR/GPS/OSL of dunes in the United Arab Emirates
Dunes and SAR in the Salton Sea, California
- 2014 Yardangs in western China
Field remote sensing of Marum lava lake and Yasur volcano, Vanuatu
Co-led BYU Hamblin Global Geology student field trip to Bahamas (35 students)
- 2013-14 Meteorite hunter for the Antarctic Search for Meteorites Program (ANSMET), Miller Range
- 2013 Field studies, including GPR, GPS, OSL dating, field and aerial image analysis of large linear dunes in the Namib Sand Sea and the Roter Kamm impact crater, Namibia.
Dune movement and mud volcano analysis in the Salton Sea, CA
Co-led BYU Hamblin Global Geology student field trip to southern England for history of Geology (35 students)
Co-led BYU Hamblin Global Geology alumni field trip to England for History of Geology (17 participants)
Field studies of the Lencois Maranhenses dune field in northern Brazil
- 2012 Field studies of large linear and megabarchan dunes in Rub al Khali, southern UAE
Participated in field trip to alluvial fans on UAE/Oman border
Co-led BYU Hamblin Global Geology student field trip to volcanoes of the Big Island and Oahu (24 students)
- 2011 Field studies of Erta Ale lava lake, Ethiopia
BYU Class Field Trip to Timpanogos snow fields, with Summer Rupper's class
- 2010 Field studies of dunes in the eastern Sahara, GPR, OSL, and geomorphological studies on Qattameya dunes, W. Cairo, and northern Great Sand Sea.
Co-led BYU College of Physical and Mathematical Sciences Leadership Council field trip to Hawaii (Oahu and Big Island), for volcanoes and astronomy

- 2009 Field studies of linear dunes of the Australian Simpson Desert
 Co-led BYU Hamblin Global Geology student/alumni field excursion (~30 participants) to India Himalayas tectonism and geomorphology
 Participated in field trip to Tunisian desert as a Planetary Analogue, 27th IAS meeting
 Co-led successful student meteorite search at a Utah playa lake
- 2008 Participated in field excursion across Vatnajokull glacier to Grimsvotn volcano, volcanism and glacial interactions, with IAVCEI conference, Iceland
 Helped advise BYU Mars Rover Team on site analysis and field strategies, Hanksville, UT
- 2008-09 Field assistant to the Antarctic Search for Meteorites (ANSMET), Davis-Ward Nunataks
- 2007 Co-led BYU Hamblin Global Geology student/alumni field excursion (~30 participants) to Italy and Switzerland volcanoes and glaciers
 BYU Geology Club hike to 5th water hot springs, Spanish Fork, UT, faculty advisor
- 2005-06 Field assistant to the Antarctic Search for Meteorites (ANSMET), Miller Range
- 2005 Co-led BYU Hamblin Global Geology student/alumni field excursion (~30 participants) to Hawaii volcanoes
 Co-led University of Arizona planetary science field trip, Baja California beaches and batholiths
- 2002 Co-organized University of Arizona planetary science field trip to Washington State flood basalts and megafloods
- 2003 Field assistant to thermal studies of Io's volcanoes at Kilauea
- 2001 International Volcanology Field Course in the Central Andes, Argentina
 Planetary Volcanology (NASA PGG) Workshop Kilauea Volcano, Hawaii
 New Mexico Volcanism Workshop
- Myriad other geology field trips to locations within Utah, the western US, Hawaii, the Bahamas, Mexico, New Zealand, Australia, Scotland

Research Funding Detail

Awarded Funding – Principal Investigator and Co-Investigator (External Grants)

- 5/2020-21 NASA Habitable Worlds, *Interior life of Dunes*, Shannon MacKenzie PI, \$2,000
- 4/2020-21 NASA Spacegrant Higher Education Minigrant, *Sand Collection in the Shangri-La Sand Sea of Titan from remote sensing and field comparisons*, \$11,459
- 2/2020 BYU College FAST Grant (fostering mentoring environments), *Carbon-Rich Extrasolar Planet Habitability Inferred by the Analogue Ol Doiño Lengai*, \$24,050
- 9/2019-38 NASA *Dragonfly* New Frontiers mission team member, \$1,789,706 to BYU
- 9/2018-22 NASA Mapping and Planetary Spatial Infrastructure cooperative agreement, for efforts related to establishing a PSDI and Roadmap for PSDI to NASA, \$192,297
- 9/2018-21 NASA Solar System Workings program, *Solar System Yardangs*, Laura Kerber of NASA Jet Propulsion Laboratory as PI, \$232,166 to BYU
- 4/2017 NASA Space Grant Consortium Infrastructure, *Winds on Planetary Surfaces from Dunes and Yardangs*, \$9,132
- 6/2015 NASA Space Grant Consortium Fellowship, *Formation of Paterae on Io*, \$3,000 to student Alex Ahern
- 9/2013-17 NASA Outer Planets Research Program, *Regional Geologic Mapping of Titan*, David Williams ASU PI, \$19,215 to BYU
- 1/2017 BYU Mentored Environment Grant program, *Understanding the wind-dominated landforms of Saturn's moon Titan through Earth analogues*. \$19,750
- 4/2015 BYU College Research Funding, *Volcanism and Tectonism on Io*, \$3,485
- 1/2015-16 BYU Graduate Studies Mentoring Assistantship Award, *Dunes of Titan and the United Arab Emirates*, \$15,000
- 6/2012-15 NASA Outer Planets Research program, *Winds, climate and organic inventory from dunes on Titan*, \$335,322

- 6/2013 NASA Space Grant Consortium Fellowship, *Formation of Paterae on Io*, \$3,000 to student Alex Ahern
- 11/2012-13 BYU Mentored Environment Grant program, *A Tectonic Origin for Mountains on Saturn's Moon Titan*, \$19,900
- 4/2012-13 BYU College of Physical and Mathematical Sciences grant, *Building a model for patera formation on Io*, \$5,000 total
- 1/2010-12 BYU Mentored Environment Grant program, *Surface features of Jupiter's moon Io as an expression of subsurface processes*, \$20,000
- 9/2009-12 NASA Outer Planets Research program, *Dunes on Titan: Dune properties, global winds, and climate*, \$232,594
- 6/2009-12 NASA Planetary Instrument Definition and Development Program, Daniel Austin BYU PI, *Coaxial Ion Trap: Microfabricated Dual Mass Spectrometer for Planetary Exploration* \$11,247 to me
- 6/2008-11 NASA Cassini Data Analysis program, *Temperatures and Eruption Style of Io's Volcanoes from Cassini ISS Images*, \$103,829
- 2/2008-10 BYU Mentored Environment Grant program, *Morphologies and evolution of dunes from Cassini Radar*, \$16,000
- 6/2006-09 NASA Planetary Instrument Definition and Development Program, Daniel Austin BYU PI, *The Open Storage Ring: A Mass-Mobility Spectrometer for in situ Characterization of Planetary Atmospheres and Evolved Gases*, \$8,030 to me

Total Value of External Funding: \$2,952,997

Total Value of Internal Funding: \$122,285

Proposals Submitted but Not Awarded – Principal Investigator

- 2020 NASA Cassini Data Analysis Program, \$576,183 total budget, Sand Collection in the Sand Seas of Titan: Locations and Causes
- 2019 NASA Habitable Worlds Program, \$436,197 total budget, Carbon Planet Habitability Inferred by the Exoplanet Analogue Site Ol Doinyo Lengai
- 2019 NASA Cassini Data Analysis Program, \$506,763 total budget, The Nature of Sand Collection Across the Sand Seas of Titan
- 2018 NASA Solar System Workings Program, \$458,765 total budget, Controls on formation of paterae on Io through analysis of shape and spatial distribution
- 2017 NASA Cassini Data Analysis Program, \$485,883 total budget, Controls on Sand Accumulation and Transport through the Sand Seas of Titan
- 2017 NASA Solar System Workings Program, \$337,294 total budget, Controls on formation of paterae on Io through analysis of shape and spatial distribution
- 2017 NASA Solar System Workings Program, Laura Kerber JPL PI, \$219,970, \$488,210 total budget, Yardangs: Wind Flow and Controls on Formation
- 2016 NASA Cassini Data Analysis Program, \$363,343 total budget, The Movement and Collection of Sand through the Sand Seas of Titan
- 2016 NASA Planetary Science and Technology through Analog Research Program, \$804,900 total budget, Exploring the Astrobiological Potential of the Interdune Environments of Earth, Mars and Titan
- 2016 NASA Solar System Workings Program, Laura Kerber JPL PI, \$138,504, \$554,050 total budget, Yardangs: Wind Flow and Controls on Formation
- 2016 BYU College High Impact Research Proposal, \$39,210, The Sand Seas of Saturn's Moon Titan and Earth: The Control of Relief and Boundaries on Sand movement and Change over time

- 2016 NASA Spacegrant Infrastructure, \$24,390, matched by BYU \$25,146, Yardang Formation in the Solar System
- 2015 BYU Mentored Environment Grant program, \$20,000, Wind-carved ridges on Earth, Titan, Mars and Venus as indicators of Winds and Materials
- 2015 NASA Cassini Data Analysis Program, \$361,617 total budget, Sediment Transport across the Sand Seas of Titan
- 2014 NASA Cassini Data Analysis Program, \$420,396 total budget, Sand Seas of Titan: Origin, Materials, and Change
- 2014 NASA Planetary Science and Technology through Analog Research Program, \$692,867 total budget, Detecting Life in the Extreme dune/interdune areas of Earth Mars and Titan: Habitability, Chemistry and Environments
- 2014 NASA Spacegrant Infrastructure, \$24,954, matched by BYU \$24,997, Mountain Distribution and erosion on Titan
- 2014 BYU College High Impact Research Proposal, \$36,930, Sand Seas of Arabia: Origin, Materials, Change, and Analogue for Sand Seas of Titan
- 2013 NASA EPSCoR Program, \$25,000, matched by BYU \$25,000, Formation of Paterae on Io: Experimental Models
- 2013 BYU Mentored Environment Grant program, \$20,000, Field analysis of linear dunes in the Namib Sand Sea: Implications for their evolution on Earth and Saturn's moon Titan
- 2011 NASA Cassini Data Analysis Program, \$327,417 total budget, Titan Dune Morphologies reveal Winds, Climate, Topography and Sediments
- 2011 NASA Earth and Space Science Fellowship, Zac Liu acting PI, graduate student funding, The Origin of Mountains on Titan: Observation and Analysis from Cassini RADAR
- 2010 NASA Planetary Geology and Geophysics Program, \$335,258 total budget, Formation of Paterae on Io: Experimental Models
- 2009 NASA Planetary Geology and Geophysics Program, \$164,640 total budget, Solar System Sand Seas: A Field Exercise in the Namib Sand Sea, Africa
- 2008 NASA Planetary Geology and Geophysics Program, \$164,640 total budget, Solar System Sand Seas: A Field Trip to the Namib Sand Sea, Africa
- 2007 NASA Outer Planets Research Program, \$291,675 total budget, Surface features of Io: Relationships between paterae, mountains and hotspots
- 2007 NASA Outer Planets Research Program, \$232,594 total budget, Dunes on Titan: Dune properties, global winds, and climate
- 2006 NASA Outer Planets Research Program, \$295,572 total budget, Io at the end of the Galileo Era: A global synthesis of data
- 2005 NASA Outer Planets Research Program, \$310,972 total budget, Io at the end of the Galileo Era: A global synthesis of data

Total Value of Submitted, Unfunded Proposals: \$7,697,607

Spacecraft Mission Involvement – Proposed and Flown

- 2018- Science Team Member for Io Volcano Observer, NASA Discovery, \$450 million, submitted Nov. 2020, Johns Hopkins University Applied Physics Laboratory
- 2016- Science Team Member for *Dragonfly*, rotorcraft lander spacecraft to Titan, SELECTED for NASA New Frontiers June 2019, \$1 billion, Johns Hopkins University Applied Physics Laboratory
- 2008-2017 Associate Team Member for RADAR instrument on *Cassini-Huygens* mission to Saturn system, ~\$3 billion, observation planning and science analyses of Titan
- 2010 AVIATR - Titan Airplane, Jason Barnes PI, for consideration for Discovery 2010, \$450 million, went through JPL Team X, not submitted

- 2009 Titan Imager Spectrometer, Bob Brown PI, for consideration for Titan Surface Science Mission, not submitted
- 1999-2003 Graduate student on the *Galileo* mission to the Jupiter system, helped perform observation planning and image analysis for the Io flybys

Career Development

- 2007 Cutting Edge NSF Early Career Workshop, College of William and Mary, VA
- 2006 Brigham Young University Faculty Development Seminar series
- 2019 Finding Joy Seminar, BYU Faculty Center, George Handley and Jane Birch
- 2020 Publish and Flourish Workshop for BYU Faculty, Tara Gray

Scientific Meeting and Workshop Attendance

- 2020 MAPSIT Community Meeting, Zoom 11/20
 Geological Society of America, Zoom 10/20
 Division for Planetary Sciences of the American Astronomical Society, Zoom 9/20
 International Planetary Dunes Workshop, Zoom 5/20
 Exoplanets in our Backyard, Houston, 2/20
- 2019 The Surface of Titan After Cassini, ESAC Madrid, 9/19
 European Planetary Science Congress and Division for Planetary Sciences of the American Astronomical Society, Geneva, 9/19
 Asia Ocean Geosciences Congress, Singapore, 7/19
 Pluto System After New Horizons, JHUAPL Maryland, 7/19
 Lunar and Planetary Science Conference, Houston, TX, 3/19
- 2018 Argentine Sedimentology Conference, Buenos Aires, Argentina, 12/18
 Geological Society of America, Indianapolis, IN, 11/18
 European Planetary Science Congress, Berlin, Germany, 9/18
 IVO Mission Science Team Meeting, Pasadena, CA, 7/18
 International Conference on Aeolian Research, Bordeaux, France, 6/18
 Dragonfly Mission Science Team Meeting, Columbia, MD, 5/18
 Lunar and Planetary Science Conference, Houston, TX, 3/18
 Afar Valley Europlanet Field Studies Preliminary Report, University of Mekele, Ethiopia 1/18
- 2017 AGU Annual Meeting, New Orleans, LA, 12/17
 VEXAG Community Meeting, JHUAPL, Columbia, MD 11/17
 Division for Planetary Sciences Annual Meeting (DPS), Provo, UT 10/17
 AOGS annual meeting, Singapore, 7/17
 GSA Cordilleran Section Meeting, Honolulu, HI, 5/17
 5th International Planetary Dunes Workshop, St. George, UT, 5/17
 Titan Through Time, Goddard Spaceflight Center, Maryland 4/17
 Lunar and Planetary Science Conference (LPSC), Houston, 3/17
- 2016 Titan Surface Workshop, Paris, France, 11/16
 Geological Society of America Annual Meeting, Denver, CO 9/16
 Outer Planets Assessment Group meeting, Flagstaff, AZ 7/16
 9th International Conference for Aeolian Research meeting, Mildura, Australia 6/16
 International Association of Sedimentologists, Marrakech, Morocco, 5/16
 Lunar and Planetary Science Conference, Houston, TX, 3/16
- 2015 DPS Committee Meeting, Washington DC 10/15
 Outer Planets Assessment Group meeting, Columbia, MD 9/15
 Titan Surface Workshop, Moscow, ID 9/15
 International Planetary Dunes Workshop, Boise, ID 5/15
 Lunar and Planetary Science Conference (LPSC), Houston, 3/15
- 2014 Division for Planetary Sciences of the American Astronomical Society (DPS), Tucson, 11/14

- Kavli Symposium, National Academy of Sciences, Beijing, China, 10/14
Titan Surface Workshop, Ithaca, NY, 10/14
European Planetary Science Congress (EPSC), Estoril, Portugal, 9/14
Committee on Space Research (COSPAR), Moscow, Russia, 8/14
4th International Conference on Aeolian Research (ICAR), Lanzhou, China, 7/14
Lunar and Planetary Science Conference (LPSC), Houston, 3/14
- 2013 Geological Society of America (GSA), Denver, 10/13
Division for Planetary Science (DPS), Denver, 10/13
European Planetary Science Congress (EPSC), London, 9/13
SBSR XVI, Brazilian Remote Sensing Symposium, Iguasu, Brazil, 4/13
Lunar and Planetary Science Conference (LPSC), Houston, 3/13
Titan Surface Working Group Meeting, Tucson, 2/13
Outer Planets Assessment Group, Atlanta, 1/13
- 2012 4th International Alluvial Fans Workshop, United Arab Emirates 12/12
Division of Planetary Sciences (DPS), Reno, 10/12
International Geological Congress (IGC), Brisbane, Australia, 8/12
Io Workshop, Boulder, CO, 7/12
Outer Planets Assessment Group (OPAG) meeting, St. Louis, MO, 3/12
Lunar and Planetary Science Conference, Houston, 3/12
Cassini Project Science Group meeting, Pasadena, 1/12
Cassini Radar Team workshop, Pasadena, 1/12
Cassini Radar Team dunes workshop, Pasadena, 1/12
- 2011 Asia Ocean Geosciences Society (AOGS) Meeting, Taiwan, 8/11
Titan Dunes Workshop, Pasadena, CA, 7/11
Titan Surface Workshop, Pasadena, CA, 7/11
GSA Rocky Mountain and Cordilleran Joint Meeting, Logan, UT, 5/11
Lunar and Planetary Science Conference, Houston, 3/11
Outer Planets Assessment Group (OPAG) meeting, Alexandria, VA, 3/11
IAG Conference, Addis Ababa Ethiopia, 2/11
- 2010 American Geophysical Union meeting, San Francisco, 12/10
2nd International Planetary Dunes Workshop, Alamosa, CO, 5/10
Io Workshop, Provo, UT, 5/10
Lunar and Planetary Science Conference, Houston, 3/10
- 2009 Dunes on Titan workshop, Desert Research Institute, Las Vegas, 11/09
Division of Planetary Sciences of the American Astronomical Society meeting, Puerto Rico 10/09
27th IAS Meeting of Sedimentologists, Alghero, Italy 9/09
7th International Conference on Geomorphology, Melbourne, 7/09
Lunar and Planetary Science Conference, Houston, 3/09
Outer Planets Assessment Group (OPAG) Meeting, Baltimore, 3/09
- 2008 Outer Planets Assessment Group (OPAG) meeting, Phoenix, 11/08
IAVCEI volcanology and chemistry meeting, Reykjavik, 8/08
American Association of Physics Teachers Meeting, invited speaker, Edmonton, Alberta, 7/08
Planetary Dunes Workshop, White Sands, NM, 4/08
Lunar and Planetary Science Conference, Houston, 3/08
Titan Workshop, Mountain View, CA, 2/08
Cassini Project Science Group (PSG) Titan Working Group meeting, 1/08
- 2007 American Geophysical Union meeting, San Francisco, 12/07
Division of Planetary Sciences of the American Astronomical Society meeting, Orlando 10/07
Lunar and Planetary Science Conference, Houston, 3/07
- 2006 American Geophysical Union meeting, San Francisco, 12/06
Division of Planetary Sciences of the American Astronomical Society meeting, Pasadena, 10/06

Meeting Abstracts

First-author, 2006-present

- Radebaugh, J.**, and the MAPSIT Steering Committee, Maximizing the Value of Solar System Data through Planetary Spatial Data Infrastructures. In *AAS/Division for Planetary Sciences Meeting Abstracts* (Vol. 52).
- Radebaugh, J.**, Kerber, L., McDougall, D., Sevy, J. and Rabinovitch, J., 2020. Formation of Yardangs out of Wind-Sculpted Bedrock: Implications for Planetary Surfaces. *6th International Planetary Dunes Workshop, LPI Contributions, 2188*, p.3048.
- Radebaugh, J.**, Thomson, B.J., Archinal, B., Beyer, R., DellaGiustina, D., Fassett, C.I., Gaddis, L., Goossens, S., Hagerty, J.J., Hare, T. and Laura, J., 2020. Seeing Clearly the Ground Beneath Our Feet: A Planetary Spatial Data Infrastructure. In *Lunar and Planetary Science Conference*
- Radebaugh, J.**, Kerber, L., Harvey, R., Karner, J., Schutt, J., Rougeux, B., McDougall, D., Sevy, J., Rabinovich, J., Cohen, B.A. and Telfer, M., 2020, March. The Antarctic Plateau: Type Example of a Planetary Wind Dominated Landscape. In *Lunar and Planetary Science Conference* (No. 2326, p. 2845).
- Radebaugh, J.**, Barnes, R. and Keith, J., 2020. The Ol Doiyo Lengai Volcano, Tanzania, as an Analogue for Carbon Planets. *Exoplanets in Our Backyard: Solar System and Exoplanet Synergies on Planetary Formation, Evolution, and Habitability, 2195*, p.3070.
- Radebaugh, J.**, McEwen, A.S., Ragozzine, D., Keane, J.T., Davies, A.G., de Kleer, K., Hamilton, C.W., Nimmo, F., Pommier, A. and Wurz, P., 2020. Io as an Extreme Exoplanet Analogue. *Exoplanets in Our Backyard: Solar System and Exoplanet Synergies on Planetary Formation, Evolution, and Habitability, 2195*, p.3050.
- Radebaugh, J.**, C. Lewis, B. Bishop. E. Christiansen, S. Tass, A. Le Gall, J. Barnes and S. Rodriguez 2019. Implications for Dune Morphometrics on Titan dune field maturity and sediment collection and transport. Surface of Titan After Cassini, ESAC Madrid.
- Radebaugh, J.**, and the MAPSIT Steering Committee 2019. A Community Roadmap for Planetary Spatial Data Infrastructure. European Planetary Science Congress and DPS meeting, Geneva.
- Radebaugh, J.**, BJ Thomson, B Archinal, R Beyer, D DellaGuistina, C Fassett, L Gaddis, J Hagerty, T Hare, J Laura, S Lawrence, E Mazarico, A Nass, A Pathoff, J Skinner, S Sutton, D Williams 2019. A Roadmap for Planetary Spatial Data Infrastructure. Lunar and Planetary Science Conference, 2019
- Radebaugh, J.**, J Barnes, A Le Gall, X Yu, EP Turtle, AP Yingst, S MacKenzie, S Horst, J Lunine, J Johnson, M Malaska, C Neish, S Rodriguez 2019. Properties of the Dune Sands of Titan: Knowns and Unknowns. Lunar and Planetary Science Conference, 2019
- Radebaugh, J.**, R.M.C. Lopes, R. Howell, R. Lorenz and E.P. Turtle 2019. Eruption Characteristics on Jupiter's Moon Io from Observations of Active Lava Lakes. Asia Ocean Geosciences Society, Singapore.
- Radebaugh, J.**, M. Telfer, E. Parteli, R. Beyer and R. Kirk 2019. The Shapes and Distributions of Dunes on Pluto. Pluto System After New Horizons, JHUAPL, Maryland Abstract 2133.
- Radebaugh, J.**, C. Lewis, B. Bishop, R. Lorenz, S. Rodriguez, and C. Narteau 2018. Sand dunes on Titan and Pluto as revealed by remote sensing, morphological and field analogues. Geological Society of America Annual Meeting, Indianapolis, IN.
- Radebaugh, J.**, R. Lorenz, L. Kerber, L. Bandeira, D. Vaz, R. Dame and G. Ori 2018. Danakil Depression Flats as Analogues for RADAR-Smooth Surfaces of Titan, Mars and Venus. EPSC Annual Meeting, Berlin.

- Radebaugh, J.,** C. Lewis, B. Bishop, E.H Christiansen, A. Le Gall, R.D. Lorenz, J.W. Barnes, S. Rodriguez, and A. Lucas 2018. Linear dune maturity in Titan's Belet Sand Sea as revealed by parametric trends. ICAR bi-annual meeting, Bordeaux, France.
- Radebaugh, J.,** J.W. Barnes, S. Mackenzie, S. Horst, X. Yu, R.D. Lorenz, M. Telfer, J.I. Lunine, J. Johnson, M. Malaska, C.D. Neish, S. Rodriguez, E.P. Turtle, C. Lewis, B. Bishop 2018. The importance of sand for understanding dune processes and surface conditions of Titan. Lunar Planet. Sci. XLIX.
- Radebaugh, J.,** B. Bishop, C. Lewis, D. Northrup, E.H Christiansen, S. Tass, L. Kerber, S. Rodriguez, C. Narteau, A. Le Gall, A. Lucas and M. Malaska 2017. Aeolian landscapes of Titan from Cassini RADAR reveal winds, elevation constraints and sediment characteristics. American Geophysical Union Fall Meeting, New Orleans, Abstract P12B-07.
- Radebaugh, J.,** B. Archinal, B.J. Thomson, R. Beyer, D. Della Giustina, C. Fasset, L. Gaddis, J. Hagerty, T. Hars J. Laura, S. Lawrence, E. Mazarico, A. Nass, A. Patthoff, J. Skinner, S. Sutton and D.A. Williams 2017. MAPSIT and the Importance of Planetary Spatial Data Infrastructure for Venus. VEXAG meeting, Abstract 8010.
- Radebaugh, J.,** M. Telfer, E. Parteli, R. Beyer, T. Bertrand, F. Forget, F. Nimmo, W. Grundy, J. Moore and S.A. Stern 2017. Dunes and new evidence of recently active surface processes on Pluto. 49th Division for Planetary Sciences of the American Astronomical Society Meeting, Provo, UT, Abstract 102.05.
- Radebaugh, J.,** B Archinal, R Beyer, D DellaGiustina, C Fassett, L Gaddis, J Hagerty, T Hare, J Laura, SJ Lawrence, E Mazarico, A Naß, A Patthoff, J Skinner, S Sutton, BJ Thomson, D Williams 2017. MAPSIT and a roadmap for lunar and planetary spatial data infrastructure. LEAG fall meeting.
- Radebaugh, J.,** Z. Y-C. Liu 2017. Tectonic Landforms of Titan reveal recent history of contraction and extension. Asia Oceania Geosciences Society Annual Meeting, Singapore, Abstract PS15-A008.
- Radebaugh, J.,** B. Bishop, C. Lewis, C. Narteau, S. Rodriguez, X. Gao, E.H Christiansen and R.D. Lorenz 2017. The Namib Sand Sea as an Analogue for the Belet Sand Sea, Titan: Winds and Dune-forming Processes. 5th International Planetary Dunes Workshop, St. George, UT, Abstract 3057.
- Radebaugh, J.,** R. Lopes, R. Howell, R. Lorenz, E. Turtle, and G. Carling 2017. Temperatures and behaviors of lava lakes from field observations and comparisons with Io. Geological Society of America Cordilleran Section meeting, Honolulu, HI. Abstract T17-20-2.
- Radebaugh, J.,** C. Savage, K. Arnold, B. Bishop, C. Lewis and D. Northrup and the Cassini RADAR Team 2017. Aeolian processes and landforms of Titan. Titan Through Time 4, NASA Goddard Spaceflight Center, MD.
- Radebaugh, J.,** L. Kerber, C. Narteau, S. Rodriguez and X. Gao 2017. Yardangs and dunes of Iran's Lut Desert reveal winds on planetary surfaces. Lunar Planet. Sci. XLVIII, Abstract 1061.
- Radebaugh, J.** 2016. Sediment collection and transport through the sand seas of Titan. Titan Surface Workshop, Paris, France.
- Radebaugh, J.** 2016. The Linear dunes and sand seas of Titan. Geological Society of America Annual Meeting, Denver, CO.
- Radebaugh, J.,** C. Chandler, J.H. McBride, T.H. Morris, K. Arnold, R.D. Lorenz, J.W. Barnes, A.G. Hayes 2016. A complex history for linear dunes on Earth and application to Titan. 9th International Conference on Aeolian Research, Mildura, Australia.
- Radebaugh, J.,** D. Ventra and R. Lorenz 2016. Alluvial and fluvial fans on Saturn's moon Titan. 32nd IAS International Meeting of Sedimentology, Marrakech.
- Radebaugh, J.,** 2016. Distribution of volcanoes and Tectonic Features across the Surface of Io. Io-Jupiter Interaction Workshop, INPE, Brazil.
- Radebaugh, J.,** R.D. Lorenz, Z. Y-C. Liu and R.L. Kirk 2016. The highest point on Titan. Lunar Planet. Sci. XLVII, Abstract 2694.
- Radebaugh, J.,** D. Ventra, R. Lorenz, T. Farr, R. Kirk, A. Hayes, M. Malaska, S. Birch, Z. Y-C Liu, J.

- Lunine, J. Barnes, A. Le Gall, R. Lopes, E. Stofan, S. Wall, P. Paillou 2015. Alluvial Fans on Titan reveal atmosphere and surface interactions and material transport. American Geophysical Union Fall Meeting, Abstract P12B-01.
- Radebaugh, J.** 2015. Discoveries in the Solar System: Spreading the Good Word. Division of Planetary Sciences of the American Astronomical Society Mtg., National Harbor.
- Radebaugh, J.,** R. Lorenz, P. Paillou, D. Northrup 2015. Morphologies, morphometries and SAR brightnesses of yardangs and dunes on Earth and Titan. 4th International Planetary Dunes Workshop, Boise, Abstract 8048.
- Radebaugh, J.,** R. Lorenz, P. Paillou, T. Farr, M. Malaska, E.H Christiansen, D. Northrup 2015. Possible yardangs of Titan and western China reveal winds and surface erosion. LPS XLVI Abstract 2746.
- Radebaugh, J.,** G. Carling, T. Saito, A. Dangerfield, D. Tingey, R.D. Lorenz, R.M.C. Lopes, R. Howell, S. Diniega, E.P. Turtle 2014. Temperature and Structure of Active Eruptions from a Handheld Camcorder. Division of Planetary Sciences of the American Astronomical Society Mtg., Tucson.
- Radebaugh, J.,** 2014. Dunes on Titan from the Cassini Mission. EPSC Portugal, Abstract 651.
- Radebaugh, J.,** R.D. Lorenz, K.D. Arnold, C.J. Savage, B. Williams 2014. Dunes on Titan: A Major Landform Revealing Atmospheric and Surface Processes. COSPAR Russia.
- Radebaugh, J.,** R.D. Lorenz, K.D. Arnold, C.K. Chandler, T. Morris, J. McBride 2014. Studies of Linear Dunes on Titan and Earth. ICAR China.
- Radebaugh, J.,** R.D. Lorenz, J.W. Barnes, A.G. Hayes, K.D. Arnold and C.K. Chandler 2014. Namib Sand Sea field analogues to the linear dunes of Titan. LPS XLV Abstract 2365.
- Radebaugh, J,** R.D. Lorenz, C.J. Savage, K. Arnold, A. Le Gall, N.T. Mills 2013. Dunes on Saturn's moon Titan from Cassini: Morphology, composition and indicators of wind and climate. GSA Denver.
- Radebaugh, J.,** R.D. Lorenz, J.W. Barnes, A.G. Hayes, T.G. Farr, E. Heggy, S.D. Wall and O. Aharonson 2013. Earth desert analogues for Titan's large, linear dunes. EPSC, London, Abstract 1061.
- Radebaugh, J.** 2013. Saturn's Moon Titan: Observations using RADAR and near-infrared. SBSR XVI, Iguasu, Brazil.
- Radebaugh, J.,** R.D. Lorenz, T.G. Farr, R.L. Kirk, J.I. Lunine, D. Ventra, A. Le Gall, R.M.C. Lopes, J.W. Barnes, A. Hayes, E.R. Stofan, S.D. Wall, and C. Wood 2013. Alluvial fans on Titan reveal materials, processes and regional conditions. LPS XLIV Abstract 2641.
- Radebaugh, J.** 2012. Alluvial fans on Titan reveal materials, processes and regional conditions. 4th International Alluvial Fans Workshop, RAK, UAE.
- Radebaugh, J.,** R. D. Lorenz, J. I. Lunine, R. L. Kirk, G. G. Ori, T. G. Farr, M. Malaska, A. Le Gall, Z. Y. C. Liu, P. J. Encrenaz, P. Paillou, A. Hayes, R. M. C. Lopes, E. P. Turtle, S. D. Wall, E. R. Stofan, C. A. Wood and the Cassini RADAR Team 2012. Coexistence of dunes and humid conditions at Titan's tropics. AAS/Division for Planetary Sciences Meeting 44, #xx.xx.
- Radebaugh, J.,** Z. Y-C Liu, K. Arnold, N.T. Mills, R.D. Lorenz, C. Neish, J.W. Barnes, and S. Wall 2012. Dunes and mountains on Titan from Cassini SAR reveal active processes. Abstract 5083, 34th IGC, Brisbane.
- Radebaugh, J.,** R.D. Lorenz, and A. Le Gall 2012. Dunes on Titan at the beginning of the Cassini Solstice Mission. 3rd International Planetary Dunes Workshop, Flagstaff, AZ, Abstract 7031.
- Radebaugh J.,** A. Le Gall, J. W. Barnes, R. D. Lorenz, J. I. Lunine, R. L. Kirk, Cassini Radar Team 2012, Stabilized Dunes on Titan Indicate Changes in Climate and Surface Processes. LPS XLIII Abstract 2224.
- Radebaugh, J.,** A. Le Gall, R.D. Lorenz, J.I. Lunine. Stabilized dunes on Titan as indicators of climate change. EPSC-DPS Joint Meeting 2011, Abstract 1546.
- Radebaugh J.,** C.J. Savage, Z. Y-C Liu, and the Cassini RADAR Team 2011. Landforms and Processes on Saturn's Moon Titan. AOGS Meeting, Taipei Taiwan, PS06-A026.
- Radebaugh, J.,** 2011. Geomorphology of Titan's dunes reveals past and present surface conditions. Titan Surface Workshop, Pasadena, CA.

- Radebaugh, J.**, 2011. Stabilized dunes on Titan? Titan Dunes Workshop, Pasadena, CA.
- Radebaugh, J.**, C.J. Savage, T.G. Farr, E. Heggy, O. Aharonson, and R.D. Lorenz 2011. Linear dunes in the western Sahara as an analogue to dunes on Titan. GSA Rocky Mountain and Cordilleran Joint Meeting, Logan, UT, Paper 5-3.
- Radebaugh, J.**, K. Schleiffarth, E.H Christiansen 2011. Internal stresses of Io are revealed by surface lineations. Lunar and Planetary Science Conference XLII, Abstract 2755.
- Radebaugh, J.**, B. Barth, K. Schleiffarth, R.M.C. Lopes and E.H Christiansen 2011. Global volcanism and tectonism on Jupiter's moon Io as manifested in surface features. IAG Conference, Addis Ababa Ethiopia.
- Radebaugh, J.**, R.D. Lorenz, C.J. Savage, T.G. Farr, S.D. Wall, N. Lancaster, and the Cassini Radar Team 2010. The Sahara Desert as an analogue to sand seas on Titan. Eos Trans. AGU, Fall Meet. Suppl., Abstract P13B-1374.
- Radebaugh, J.**, C.J. Savage, R.D. Lorenz, N. Lancaster, S.D. Wall, E.R. Stofan, J.I. Lunine, R.L. Kirk, A. Le Gall, and T.G. Farr 2010. Dunes on Titan: Wind Directions, behavior, and evolution from statistical and morphological studies. 2nd International Planetary Dunes Workshop, Alamosa, CO, Abstract 2014.
- Radebaugh, J.**, R.D. Lorenz, C.J. Savage 2010. Titan's Yin-yang equator: dunes and Xanadu. Titan Through Time, NASA Goddard, Cottini, Nixon, Lorenz eds., p. 29.
- Radebaugh, J.**, R.D. Lorenz, N. Lancaster, C.J. Savage, S.D. Wall, E.R. Stofan, J.I. Lunine, R.L. Kirk, and A. LeGall 2010. Winds and sand transport patterns on Titan from dune interactions with topography. Lunar and Planetary Science Conference XLI, Abstract 2513.
- Radebaugh, J.**, V. Baker, R.D. Lorenz, T.G. Farr, R.M.C. Lopes, R.L. Kirk, E.R. Stofan, S.D. Wall, C.D. Wood, K.L. Mitchell, J.I. Lunine, M. Malaska, P. Valora, and the Cassini Radar Team 2009. Fluvial Erosion on Titan: Scales and Landform Modification, AAS/Division for Planetary Sciences Meeting 41, #36.07.
- Radebaugh, J.** and the Cassini Radar Team 2009. Linear dune fields of Titan. 27th International Meeting of Sedimentologists, Alghero, Italy.
- Radebaugh, J.**, R. Lorenz, C. Savage 2009. The Dunes of Titan: Distribution, Orientation, and Morphology from Cassini RADAR Imaging. 7th International Conference on Geomorphology, Melbourne.
- Radebaugh, J.** 2009. Evidence of extensional and compressional tectonism on Saturn's Moon Titan. Geological Society of America Meeting, Rocky Mountain Section.
- Radebaugh, J.**, P. Valora, R.D. Lorenz, S.D. Wall, R.L. Kirk, C.A. Wood, J.I. Lunine, E.R. Stofan, R.M. Lopes, T.G. Farr, G. Mitri and the Cassini RADAR Team 2009. Evidence of extensional and compressional tectonism and erosion in Titan's Xanadu province. Lunar and Planetary Science Conference XXXX, Abstract 1037.
- Radebaugh, J.** and E.H Christiansen 2008. Magma chambers and calderas: A comparison between pluton and caldera sizes. Abstracts, IAVCEI annual meeting, Reykjavik.
- Radebaugh, J.**, 2008. Satellites of the Outer Solar System: Glimpses of Earth. American Association of Physics Teachers Annual Meeting, Edmonton, Canada, Invited talk.
- Radebaugh, J.**, R.D. Lorenz, C. Spencer, and the Cassini RADAR Team 2008. Terrestrial analogues of longitudinal dunes on Titan. Planetary dunes workshop, Alamogordo, NM, Abstract 7037.
- Radebaugh, J.**, R.L. Kirk, R.M. Lopes, E.R. Stofan, P. Valora, J.I. Lunine, R.D. Lorenz, and the Cassini Radar Team 2008, Mountains on Titan as evidence of global tectonism and erosion. Lunar and Planetary Science Conference XXXIX, Abstract 2206.
- Radebaugh, J.**, R. Lorenz, J. Lunine, S. Wall, C. Spencer, R.L. Kirk, R.M. Lopes, E.R. Stofan, M. Allison, P. Callahan and the Cassini Radar Team 2007. Titan's sand seas of longitudinal dunes as indicators of winds and sediment transport. Eos Trans. AGU 88(52), Fall Suppl., Abstract 10910.
- Radebaugh, J.**, Lorenz, R.D., Lunine, J.I., Wall, S., Boubin, G., Reffet, E., Kirk, R.L., Lopes, R.M.C., Stofan, E.R., Soderblom, L., Allison, M., Callahan, P., and the Cassini RADAR Team, 2007, Requirements for Longitudinal Dunes on Titan and Implications for Global Winds, Amer. Astron.

Soc. Bull., 39(3), 57.02.

- Radebaugh J.**, R. Lorenz, J. Lunine, S. Wall, G. Boubin, E. Reffet, R. Kirk, R. Lopes, E. Stofan, L. Soderblom, M. Allison, P. Callahan and the Cassini RADAR Team 2007. Longitudinal Dunes on Titan as Indicators of Global Climate, Workshop on Ices, Oceans, and Fire, Satellites of the Outer Solar System, Boulder, CO, Abstract 6005.
- Radebaugh, J.**, R. Lorenz, J. Lunine, and the Cassini Radar Team 2007, Longitudinal dunes on Titan: Distributions and indicators of winds, Spring EGU Meeting, Vienna, Abstract 04702.
- Radebaugh, J.**, R. Lorenz, J. Lunine, S. Wall, G. Boubin, E. Reffet, R. Kirk, R. Lopes, E. Stofan, L. Soderblom, M. Allison, P. Callahan and the Cassini Radar Team 2007, Dunes on Titan from Cassini Radar, Lunar and Planetary Science Conference XXXVIII, Abstract 1412.
- Radebaugh, J.**, R. Lorenz, J. Lunine, S. Wall, G. Boubin, E. Reffet, R. Kirk, R. Lopes, E. Stofan, L. Soderblom, M. Allison 2006. Longitudinal dunes on Titan as indicators of regional and local winds. *Eos Trans. AGU (Fall Suppl.)* 87(52), P12A-03 (abstract).
- Radebaugh, J.**, R. Lorenz, J. Lunine, S. Wall, G. Boubin, E. Reffet, R. Kirk, R. Lopes, L. Soderblom, and the Cassini Radar Team 2006, Orientations of dunes on Titan: Implications for global winds. Division of Planetary Sciences of the AAS, Meeting 38, Abstract 52.07.
- Radebaugh, J.**, R. Lorenz, R. Kirk, J. Lunine, and the Cassini Radar Team 2006. Mountains on Titan Observed by Cassini Radar. *Lunar. Planet. Sci.* XXXVII, 1007 (abstract).

Student-led Abstracts

- McDougall, D., **Radebaugh, J.**, Kerber, L. and Christiansen, E.H., 2020. Topographic Controls on Yardang Morphology Revealed with High-Resolution Digital Elevation Models of Yardangs in the Altiplano-Puna, Argentina and the Medusae Fossae Formation, Mars. In *AGU Fall Meeting 2020*. AGU.
- McDougall, D., **Radebaugh, J.**, Kerber, L. and Christiansen, E.H., 2020, October. Semi-Automatic Yardang Morphometry Reveals Similar Formation Processes in the Medusae Fossae Formation, Mars and the Altiplano-Puna, Argentina. In *AAS/Division for Planetary Sciences Meeting Abstracts* (Vol. 52, No. 6, pp. 308-02).
- Lake, B.D., Radebaugh, J., Christiansen, E.H., Rose, D., Barnes, J.W. and Turtle, E.P., 2020. Sand Distribution and Possible Surface Albedo Influences in the Shangri-La Sand Sea of Titan. *6th International Planetary Dunes Workshop, LPI Contributions, 2188*, p.3047.
- McDougall, D., **Radebaugh, J.**, Kerber, L., Sevy, J., Rabinovitch, J. and Christiansen, E.H., 2020. Yardang Shapes Reveal Substrate Lithology and Material Properties in the Argentinian Puna. *6th International Planetary Dunes Workshop, LPI Contributions, 2188*, p.3049.
- Huang, R.H., **Radebaugh, J.** and Christiansen, E.H., 2020, March. Quantitative Analysis of Caldera Shape: Earth, Mars, and Io. In *Lunar and Planetary Science Conference* (No. 2326, p. 2800).
- McDougall, D., **Radebaugh, J.**, Kerber, L., Sevy, J., Rabinovitch, J. and Christiansen, E.H., 2020. Yardang Shapes Reveal Substrate Lithology and Material Properties in the Argentinian Puna. *LPI Contributions, 2188*, p.3049.
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