

SHARON A. WILSON PURDY

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PROFESSIONAL EXPERIENCE

- 2005–present **Smithsonian Institution**, National Air and Space Museum, Washington, DC
Staff Research Geologist (2022–pres.); *Physical Research Scientist* (2005–2022)
Fluvial geomorphology, landscape evolution, geologic mapping
- 2016–2021 **Geological Society of America**, Planetary Geology Division Board
- 2006–2007 **George Washington University**, Geological Sciences, Washington, DC
Instructor: Environmental Geology Lab
- 2006 **NOVA Community College**, Math, Science & Engineering Div., Alexandria, VA
Instructor: Historical Geology Lecture and Lab
- 2003–2005 **University of Virginia**, Department of Environmental Sciences, Charlottesville, VA
Lab Teaching Assistant: Planetary Geology (2005), Physical Geology (2003–2004)
- 2001–2003 **Smithsonian Institution**, National Air and Space Museum, Washington, DC
Physical Research Scientist: Aeolian processes on Mars
- 2001–2002 **Abt Associates, Inc.**, Bethesda, MD
Research Assistant & Environmental Consultant
- 2001 **Smithsonian Institution**, National Museum of Natural History, Washington, DC
Research Training Program: Geochemistry of the Lafayette meteorite from Mars

EDUCATION

- Ph.D., University of Virginia**, 2017, Department of Environmental Sciences (Geosciences)
Fluvial Landforms and the Post-Noachian Environment on Mars, 219 p.
Advisor: Professor Alan D. Howard
- M.S., University of Virginia**, 2006, Department of Environmental Sciences (Geosciences)
The geomorphic and stratigraphic analysis of layered deposits in Terby crater, Mars, 152 p.
Advisor: Professor Alan D. Howard
- B.A., Middlebury College**, 2001, *Magna cum laude*, Department of Geology
The geochemical analysis of Siluro-Devonian mafic dikes in the 15' Woodsville quadrangle, east-central Vermont, 112 p., Advisor: Professor Ray Coish

NASA PLANETARY MISSION EXPERIENCE

- 2018–2022 InSight Instrument Site Selection Working Group
- 2012–present Mars Science Laboratory (MSL) Rover, Science Operations Working Group and Science Team. *Participating Scientist* (2022–present)
- 2005–present Mars Reconnaissance Orbiter High Resolution Imaging Science Experiment (HiRISE). Team Member (2005–2023); Co-Investigator (2023–present)

NASA RESEARCH GRANTS

- 2023–2026 A Geologic Map of Aram Chaos: A Community Resource to Facilitate Future Scientific Investigations on Mars. Cathy Weitz, PI, PSI. NASA Planetary Data Archiving and Restoration (Co-Investigator)

- 2022-2025 Unraveling the Late Geologic History and Associated Habitable Environments in Gale Crater. **Sharon Wilson Purdy, PI**, Smithsonian Institution, NASA Mars Science Laboratory Participating Scientist Program (MSL PSP)
- 2022-2026 Insight into the Late-Stage Climate Record of Mars Through Analog Studies of Alluvial Fans in the Atacama Desert. **Sharon Wilson Purdy, PI**, Smithsonian Institution, NASA Early Career Award (ECA)
- 2020-2023 Preparing a Geologic Map in Margaritifer Terra: A Community Resource to Facilitate Future Scientific Investigations. **Sharon Wilson Purdy, PI**, Smithsonian Institution, NASA Planetary Data Archiving, Restoration, and Tools (PDART)
- 2019-2022 Fresh Shallow Valleys and Pollywog Craters: Insight into Post-Noachian Fluvial Activity on Mars. **Sharon Wilson Purdy, PI**, Smithsonian Institution, NASA Mars Data Analysis Program (MDAP)
- 2018-present Constraining the Geology and Near Surface Properties of the InSight Landing Site. John Grant, PI, Smithsonian Institution, NASA PSD/SMD (Collaborator)
- 2016–2022 Defining the Geologic History and Record of Potentially Habitable Environments in Gale Crater. John Grant, PI, Smithsonian Institution, NASA MSL PSP (Graduate Student)
- 2015–2018 Evolution and Environment of Martian Alluvial Fans. Alan Howard, PI, University of Virginia, NASA Mars Data Analysis Program (MDAP) (Co-Investigator)
- 2013–2017 Geologic Mapping to Constrain the Sources and Timing of Fluvial Activity in Western Ladon Basin, Mars. Catherine Weitz, PI, PSI, NASA Planetary Geology and Geophysics Program (Co-Investigator)
- 2013–2016 Fresh Shallow Valleys and the Post Noachian Fluvial and Climatic History of Mars. Jeffrey M. Moore, PI, NASA AMES Research Center, NASA Mars Data Analysis Program (Co-Investigator)
- 2012–2015 Defining the Geologic Setting and Identifying Science Targets during the MSL Mission. John Grant, PI, Smithsonian Institution, NASA PSP (Graduate Student)
- 2011–2016 Geologic Mapping in Southern Margaritifer Terra to Determine the Timing and Origin of Valleys and Fans. John Grant, PI, Smithsonian Institution, NASA Planetary Geology and Geophysics Program (Co-Investigator)

HONORS AND AWARDS

- 2023 Elected Fellow, Geological Society of America
- 2021 NASA Early Career Award Recipient
- 2021 NASA Group Achievement Award: *InSight Instrument Site Selection Working Group*
- 2017 University of Virginia Maury Prize (Highest Departmental Honor)
- 2017 NASA Group Achievement Award: *MSL Extended Mission-1 Science and Operations Team*
- 2015 NASA Group Achievement Award: *MSL Prime Mission Science Team*
- 2013 Lunar and Planetary Institute (LPI) Career Development Award
- 2011 NASA Group Achievement Award: *MRO HiRISE Science Team*
- 2005 University of Virginia Arthur A. Pegau Geology Award
- 2005 University of Virginia Governor's Fellowship
- 2001 Vermont Geological Society Charles Doll Award
- 2002 Middlebury College John M. White '52 Memorial Award
- 2000 Howard Hughes Medical Institute (HHMI) Grant

1997–2001 Middlebury College Dean’s List or College Scholar

PROFESSIONAL SERVICE

2022 NASA Group Panel Chief
2021-present Dwornik Judge at LPSC
2020-2021 Geological Society of America, Planetary Geology Division Board, *Past Chair*
2019 Organized fundraiser for the GSA Planetary Geology Division Dwornik Award
2019-2020 Geological Society of America, Planetary Geology Division Board, *Chair*
2018-2019 Geological Society of America, Planetary Geology Division Board, *1st Vice Chair*
2018 Session Co-Chair, *Early Mars Surface Processes II: Alluvial Fans and Paleolakes*, 49th Lunar and Planetary Science Conference, The Woodlands, TX
2017-2021 Geological Society of America Session Organizer/Co-Chair: *Geomorphology & Landscape Evolution of Mars* (2017-2021, 2023), *The G.K. Gilbert Award Session* (2017-2020), *InSight Mission to Mars: Geology of the Landing Site* (2019)
2017-2018 Geological Society of America, Planetary Geology Division Board, *2nd Vice Chair*
2017 Lunar and Planetary Science Conference (LPSC) Program Committee
2017 Lunar and Planetary Science Conference (LPSC) Dwornik Award Coordinator
2016-2017 Geological Society of America, Planetary Geology Division Board, *Secretary/Treasurer*
2016-2020 Award Committees: Pellas-Ryder, Dwornik, G.K. Gilbert, GSA student travel grant
2016-2019 GSA Joint Technical Planning Committee Member
2013 Hosted the *Annual Planetary Geologic Mappers Meeting*, Air and Space Museum
2008–present NASA Review Panels: Mars Data Analysis Program (MDAP), Planetary Data Archiving, Restoration, and Tools (PDART)
2007–present Journal reviews: *Geology*, *Journal of Geophysical Research (Planets)*, *Geophysical Research Letters*, *Icarus*, *Journal of Maps, Earth and Planetary Science Letters*, *Planetary and Space Science*, *Springer*, U.S. Geological Survey planetary mapping.
2006–2008 Co-Proposed Terby crater as a landing site for the Mars Science Laboratory rover

INVITED TALKS

2022 Lunar and Planetary Science Conference Plenary: Early Career Awardees, *The distribution of glacio-fluvial landforms in the southern mid-latitude region of Mars*
2021 American Geophysical Union, *The Nature and Distribution of “Pollywog” Craters and Fresh Shallow Valleys: Implications for Late Fluvial Activity on Mars*
2018 American Geophysical Union, *Inventory of Alluvial Fans on Mars and Detailed Mapping in Roddy Crater*
2016 NASA Ames Research Center, Planetary Systems Branch, *A Cold-Wet Mid-Latitude Environment on Mars during the Hesperian Amazonian Transition: Evidence from Northern Arabia Valleys and Paleolakes*, Mountain View, CA
2014 Smithsonian Institution’s National Air and Space Museum, Smithsonian’s Stars Lecture Series, *River Deposits on Mars*, Washington, DC

WORKSHOPS AND FIELD STUDIES

2009 CRISM Workshop, Houston, TX
2008 Smithsonian Institution Second Workshop on Mars Valley Networks, Moab, UT
2006 NASA Planetary Space Summer School, Mars rover mission, JPL, Pasadena, CA
2005 Planetary Geology and Geophysics Volcanology Field Workshop, Kilauea, HI

2005 THEMIS Workshop, Arizona State University
 2000 Geology Field Mapping Course, University of Otago, Dunedin, New Zealand
 1998 Geology Field Mapping Course, Middlebury College, Death Valley/Mojave Desert

Fieldwork Studies:

Atacama Desert (Chile): alluvial and aeolian processes, Mars analogue studies
 Australia (Simpson Desert): fluvial and aeolian processes, Mars analogue studies
 Island of Hawaii (Ka'u Desert): fluvial and aeolian processes, Mars analogue studies

PUBLIC OUTREACH

Camera interviews: Smithsonian Channel *Making Tracks on Mars* (2021); PBS SciTech Now (2016); *Fairfax County Public School* (2014); *Smithsonian Channel Interview with an Expert: Women in Science* (2011); *Alabama Public TV* (2011)

Print/Media/Website: [MSL Curiosity Mission Updates](#) (2022-present); Smithsonian blog post: *Geologic Maps: Where Science Meets Art* (2020) and *Alluvial Fans and Deltas: Windows into the Late Climate History of Mars* (2021); NASA-JPL Press Release: [Some Ancient Mars Lakes Came Long After Others](#) (2016); EOS Earth & Space Science News Research Spotlight: *Mars's Climate May Have Been Wet Much Later Than Thought* (2016); *The Guardian* (2015); *Eos.org* (2015); HiRISE Team: 4Q&A (2015); *Smithsonian Women in Science Wednesdays* (2015); National Geographic *Mars up Close: Inside the Curiosity Mission* (2014); Grant, J. A. and S. A. Wilson (2014), Understanding the Red Planet: Conditions right for life on Mars? *International Innovation*, 144, 51-53, ISSN 2054-6254; *Smithsonian Science Research News* (2012); *Smithsonian Sun/Earth Day Tweet-Up* (2011); *University of Virginia President's Annual Report* (2007)

Radio: *National Public Radio* (2010)

Public Lectures: *University of Virginia*: Fluvial landforms on Mars: Insight into the "late" climate history of the red planet (2017); *Walter Reed Senior Center*: Results from the Mars Science Laboratory Mission (2013)

School & Student Presentations: Interview with student at elementary school in Dairen, Wisconsin (2016); Microsoft student interview (2015), TV Video conferences about rovers on Mars with Ohio public school (2014), GW student interview (2014)

Museum Outreach: Panelist for Smithsonian Science How: What Mars Reveals about Life in Our Universe (2021); Smithsonian Mars (or Moon) Day! (2005–present); Smithsonian Geography Week (2005–2019); Smithsonian Folklife Festival mediator for 'Rocket Scientists' and 'Why We Explore' (2008)

PROFESSIONAL SOCIETIES

2003–present Member of the American Geophysical Union
 2004–present Member of the Geological Society of America (Planetary Geology Division)

MENTORSHIPS

08/2023- present	A. Rudolph (Postdoctoral researcher)
06/2022-08/2022	K. Lehnigk (CEPS summer intern)
07/2021-01/2022	K. Lehnigk (NSF INTERN)
10/2020-10/2021	A. Schwarz

PUBLICATIONS

- (49) Grau Galofre, A., A. D. Howard, A. M. Morgan, **S. A. Wilson**, J. M. Moore (2023) Glacial sculpting of a cratered landscape on the northeastern flank of the Hellas basin, Submitted to *Icarus* November 2023.
- (48) Warren, A. O., **S. A. Wilson**, A. Howard, A. Noblet, and E. S. Kite (2023), Multiple overspill flood channels from young craters require surface melting and hundreds of meters of mid-latitude ice late in Mars history, Submitted to *Planetary Science Journal* August 2023.
- (47) **Wilson, S. A.**, and J. A. Grant (2023), Geologic map of MTM 20037, -25037, -30037 and -30032 quadrangles, northwestern Noachis Terra region of Mars, *U.S. Geol. Surv. Sci. Inv. Map*, scale 1:1,000,000, *in revision*.
- (46) Grant, J. A., R. Manogaran, and **S. A. Wilson** (2024), Late drainage along portions of Samara Valles, West of Jones Crater, Margaritifer Terra, Mars, Accepted to *Icarus*.
- (45) A. S. McEwen, S. Byrne, C. Hansen, I. J. Daubar, S. Sutton, C. M. Dundas, N. Bardebelias, N. Baugh, J. Bergstrom, R. Beyer, K. M. Block, V. Bray, J. C. Bridges, M. Chojnacki, S. J. Conway, W.A. Delamere, T. Ebben, A. Espinosa, A. Fennema, J. Grant, V.C. Gulick, K. Herkenhoff, R. Heyd, R. Leis, L. Ojha, S. Papendick, C. Schaller, N. Thomas, L. L. Tornabene, C. Weitz, **S. A. Wilson** (2023), The High-Resolution Imaging Science Experiment (HiRISE) in the MRO Extended Science Phases (2009–2022), *Icarus*, <https://doi.org/10.1016/j.icarus.2023.115795>
- (44) Weitz, C.M., **S. A. Wilson**, J. A. Grant, and R. P. Irwin (2022), Geologic map of western Ladon basin, Mars, MTM Quadrangles -15032 and -20032, *U.S. Geol. Surv. Sci. Inv. Map*, scale 1:1,000,000, *in press*.
- (43) Morgan, A.M., **S. A. Wilson**, and A. D. Howard (2022), The global distribution and morphologic characteristics of fan-shaped sedimentary landforms on Mars, *Icarus*, <https://doi.org/10.1016/j.icarus.2022.115137>.
- (42) Warner, N. H., M. P. Golombek, V. Ansan, E. Marteau, N. Williams, J. A. Grant, E. Hauber, C. Weitz, **S. A. Wilson**, S. Piqueux, N. Mueller, M. Grott, 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, *J. Geophys. Res. – Planets*, <https://doi.org/10.1029/2022JE007232>.
- (41) Kite E. S., M. A. Mischna, B. Fan, A. M. Morgan, **S. A. Wilson**, M. I. Richardson (2022), Changing spatial distribution of water flow charts major change in Mars’s greenhouse effect, *Science Advances*, DOI: 10.1126/sciadv.abo5894.
- (40) Weitz, C. M., J. L. Bishop, J. A. Grant, **S. A. Wilson**, R. P. Irwin, A. Saranath, Y. Itoh, M. Parente (2022), Clay sediments derived from fluvial activity in and around Ladon basin, Mars, *Icarus*, <https://doi.org/10.1016/j.icarus.2022.115090>.
- (39) **Wilson, Sharon A.**, John A. Grant, and Kevin K. Williams (2022), Geologic Map of Morava Valles and Margaritifer basin, Mars, MTM Quadrangles -10022 and -15022, *U.S. Geological Survey Scientific Investigations Map* 3489, scale 1:500,000, <http://pubs.usgs.gov/sim/3489/>.
- (38) Grant, John A., **S. A. Wilson**, M. P. Golombek, A. Trussell, N. H. Warner, N. Williams, C. M. Weitz, H. Abarca, R. Deen (2022), Degradation at the InSight Landing Site, Homestead Hollow, Mars: Constraints From Rock Heights and Shapes. *Earth and Space Science*, 9(2) <https://doi.org/10.1029/2021EA001953>.
- (37) Holo, S. J., E. S. Kite, **S. A. Wilson**, and A. M. Morgan (2021), The timing of alluvial fan formation on Mars, *Planetary Science Journal*, <https://doi.org/10.3847/PSJ/ac25ed>.

- (36) Howard, A.D., **S. A. Wilson**, A. M. Morgan, J. M. Moore, O. L. White (2021), Light-toned deposit in the northeastern Hellas basin formed by terrain-conforming airfall sedimentation, *Icarus*, 360, 114356, <https://doi.org/10.1016/j.icarus.2021.114356>.
- (35) **Wilson, S. A.**, A. M. Morgan, A. D. Howard, and J. A. Grant (2021), The global distribution of alluvial fans and deltas on Mars, *Geophysical Research Letters*, *Geophysical Research Letters*, 48, e2020GL091653, <https://doi.org/10.1029/2020GL091653> (selected for AGU GRL cover photo).
- (34) Baker, M. M., Newman, C., Charalambous, C., Golombek, M., Spiga, A., Baneld, D., Lemmon, M., Banks, M., Lorenz, R., Garvin, J., Grant, J., Lewis, K., Ansan, V., Warner, N., Weitz, C., **Wilson, S.**, Rodriguez, S. (2020), Vortex-dominated aeolian activity at InSight's landing site, Part 2: local meteorology, transport dynamics, and model analysis, *Journal of Geophysical Research: Planets*, <https://doi.org/10.1029/2020JE006514>.
- (33) Warren, A. O., S. Holo, E. S. Kite, **S. A. Wilson** (2020), Overspilling small craters on a dry Mars: Insights from breach erosion modeling, *Earth and Planetary Science Letters*, <https://doi.org/10.1016/j.epsl.2020.116671>.
- (32) Warner, N. H., A. J. Schuyler, A. D. Rogers, M. P. Golombek, J. Grant, **S. Wilson**, C. Weitz, N. Williams, and F. Calef (2020), Crater Morphometry on the Mafic Floor Unit at Jezero Crater, Mars: Comparisons to a Known Basaltic Lava Plain at the InSight Landing Site, *Geophysical Research Letters*, <https://doi.org/10.1029/2020GL089607>.
- (31) Grant, J.A., and **S.A. Wilson** (2019), Evidence for late alluvial activity in Gale Crater, Mars, *Geophysical Research Letters*, <https://doi.org/10.1029/2019GL083444>.
- (30) Kite, E.S., D. P. Mayer, **S. A. Wilson**, J. M. Davis, A. S. Lucas, and G. Stucky de Quay (2019), Persistence of intense, climate-driven runoff late in Mars history, *Science Advances*, <https://doi.org/10.1126/sciadv.aav7710>.
- (29) Hughes, M. N., R. E. Arvidson, J. A. Grant, **S. A. Wilson**, A. D. Howard, and M. P. Golombek (2019), Degradation of Endeavour crater based on orbital and rover-based observations in combination with landscape evolution modeling, *J. Geophysical Research*, <https://doi.org/10.1029/2019JE005949>.
- (28) Golombek, M., N. H. Warner, J. Grant, E. Hauber, V. Ansan, C. M. Weitz, N. Williams, C. Charalambous, **S. A. Wilson**, A. DeMott, M. Kopp, H. Lethcoe-Wilson, L. Berger, R. Hausmann, E. Marteau, C. Vrettos, A. Trussell, W. Folkner, S. Le Maistre, N. Mueller, M. Grott, T. Spohn, S. Piqueux, E. Millour, F. Forget, I. Daubar, N. Murdoch, P. Lognonné, C. Perrin, S. Rodriguez, W. T. Pike, T. Parker, J. Maki, H. Abarca, R. Deen, J. Hall, P. Andres, N. Ruoff, F. Calef, S. Smrekar, M. M. Baker, M. Banks, A. Spiga, D. Banfield, J. Garvin, C. E. Newman, W. B. Banerdt (2019), Geology of the InSight Landing Site on Mars, *Nature Communications*, 11, 1014, <https://doi.org/10.1038/s41467-020-14679-1>.
- (27) **Wilson, S. A.**, J. A. Grant, A. D. Howard, and D. L. Buczkowski (2018), The nature and distribution of deposits in Uzboi Vallis on Mars, *J. Geophys. Res.*, 123 (7):1842–1862. <https://doi.org/10.1029/2017JE005508>.
- (26) Grant, J. A., M. P. Golombek, **S. A. Wilson**, K. A. Farley, K. H. Williford, A. Chen (2018), The science process for selecting the landing site for the 2020 Mars rover, *Planetary Space Science*, <https://doi.org/10.1016/j.pss.2018.07.001>.
- (25) Grant, J. A., and **S. A. Wilson** (2017), The nature and emplacement of distal aqueous-rich ejecta deposits from Hale crater, Mars, *Meteoritics & Planetary Science*, <https://doi.org/10.1111/maps.12843>.

- (24) Kite, E. S., J. Sneed, D. P. Mayer and **S. A. Wilson** (2017), Persistent or repeated surface habitability on Mars during the Late Hesperian–Amazonian, *Geophys. Res. Lett.*, 44, <https://doi.org/10.1002/2017GL072660>.
- (23) **Wilson, S. A.**, A. D. Howard, J. M. Moore and J. A. Grant (2016), A cold-wet mid-latitude environment on Mars during the Hesperian–Amazonian transition: Evidence from northern Arabia valleys and paleolakes, *J. Geophys. Res. Planets*, 121, 1667–1694, <https://doi.org/10.1002/2016JE005052>.
- (22) Grotzinger, J. P., S. Gupta, M. C. Malin, D. M. Rubin, J. Schieber, K. Siebach, D. Y. Sumner, K. M. Stack, A. R. Vasavada, R. E. Arvidson, F. Calef III, L. Edgar, W. F. Fischer, J. A. Grant, J. Griffes, L. C. Kah, M. P. Lamb, K. W. Lewis, N. Mangold, M. E. Minitti, M. Palucis, M. Rice, R. M. E. Williams, R. A. Yingst, D. Blake, D. Blaney, P. Conrad, J. Crisp, W. E. Dietrich, G. Dromart, K. S. Edgett, R. C. Ewing, R. Gellert, J. A. Hurowitz, G. Kocurek, P. Mahaffy, M. J. McBride, S. M. McLennan, M. Mischna, D. Ming, R. Milliken, H. Newsom, D. Oehler, T. J. Parker, D. Vaniman, R. C. Wiens, **S. A. Wilson** (2015), Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale Crater, Mars, *Science*, 350, 6257, <https://doi.org/10.1126/science.aac7575>.
- (21) Grant, J. A., T. J. Parker, L. S. Crumpler, **S. A. Wilson**, M. P. Golombek and D. W. Mittlefehldt (2015), The degradational history of Endeavour crater, Mars, *Icarus*, <https://doi.org/10.1016/j.icarus.2015.08.019>.
- (20) Craddock R. A., S. Tooth, J. R. Zimbelman, **S. A. Wilson**, T. A. Maxwell and C. Kling (2015), Temporal observations of a linear dune located in the Simpson Desert, Central Australia, *J. Geophys. Res.*, <https://doi.org/10.1002/2015JE004892>.
- (19) **Wilson, S. A.** (2015), Transverse aeolian ridge (TAR), in *Encyclopedia of Planetary Landforms*, Akos Kereszturi and Henrik Hargitai, Eds., *Springer*, 2370 pp.
- (18) **Wilson, S. A.** (2015), Aeolian Ripple, in *Encyclopedia of Planetary Landforms*, Akos Kereszturi and Henrik Hargitai, Eds., *Springer*, 2370 pp.
- (17) Grotzinger, J. P., D. Y. Sumner, L. C. Kah, K. Stack, S. Gupta, L. Edgar, D. Rubin, K. Lewis, J. Schieber, N. Mangold, R. Milliken, P. G. Conrad, D. Des Marais, J. Farmer, K. Siebach, F. Calef, III, J. Hurowitz, S. M. McLennan, D. Ming., D. Vaniman, J. Crisp, A. Vasavada, K. S. Edgett, M. Malin, D. Blake, R. Gellert, P. Mahaffy, R. C. Wiens, S. Maurice, J. A. Grant, **S. Wilson**, R. C. Anderson, L. Beegle, R. Arvidson, B. Hallet, R. S. Sletten, M. Rice, J. Bell, III, Griffes, J., Ehlmann, B., Anderson, R. B., Bristow, T. F., Dietrich, W. E., Dromart, G., J. Eignebröde, A. Fraeman, C. Hardgrove, K. Kerkenhoff, L. Jandura, G. Kocurek, S. Lee, L. A. Leshin, R. Leveille, D. Limonadi, J. Maki, S. McCloskey, M. Meyer, M. Minitti, H. Newsom, D. Oehler, A. Okon, M. Palucis, T. Parker, S. Rowland, M. Schmidt, S. Squyres, A. Steele, E. Stolper, R. Summons, A. Treiman, R. Williams, A. Yingst, and MSL Science Team (2014), A habitable fluvio-lacustrine environment at Yellowknife Bay, Gale crater, Mars: *Science*, 342, <https://doi.org/10.1126/science.1242777>.
- (16) Grant, J. A., **S. A. Wilson**, N. Mangold, Fred Calef III and J. P. Grotzinger (2014), The timing of alluvial activity in Gale crater, Mars, *Geophys. Res. Lett.*, 41, 1142–1149, <https://doi.org/10.1002/2013GL058909>.
- (15) Morgan, A., A. D. Howard, D. E. J. Hobley, J. M. Moore, W. E. Dietrich, R. M. E. Williams, D. M. Burr, J. A. Grant, **S. A. Wilson** and Y. Matsubara (2014), Sedimentology and climatic environment of alluvial fans in a Martian Seheki crater and a comparison with terrestrial fans in the Atacama Desert, *Icarus*, 229, 131–156, <https://doi.org/10.1016/j.icarus.2013.11.007>.

- (14) Grant, J. A., and **S. A. Wilson** (2012), A possible synoptic source of water for alluvial fan formation in southern Margaritifer Terra, Mars, *Planetary Space Sci.*, 72, 44-52, <https://doi.org/10.1016/j.pss.2012.05.020>.
- (13) Grant, J. A., and **S. A. Wilson** (2011), Late alluvial fan formation in southern Margaritifer Terra, Mars, *Geophys. Res. Lett.*, 38, <https://doi.org/10.1029/2011GL046844>.
- (12) Grant, J. A., M. P. Golombek, J. Grotzinger, **S. A. Wilson**, M. M. Watkins, A. R. Vasavada, J. L. Griffes and T. J. Parker (2011), The science process for selecting the landing site for the 2011 Mars Science Laboratory, *Planetary Space Science*, 59, 11-12, <https://doi.org/10.1016/j.pss.2010.06.016>.
- (11) Grant, J. A., R. P. Irwin, **S. A. Wilson**, D. Buczkowski and K. Siebach (2011), A lake in Uzboi Vallis and implications for Late Noachian-Early Hesperian climate on Mars, *Icarus*, 110-122, <https://doi.org/10.1016/j.icarus.2010.11.024>.
- (10) **Wilson, S. A.**, J. M. Moore, A. D. Howard, and D. E. Wilhelms (2010), Evidence for ancient lakes in the Hellas region, in *Lakes on Mars*, Eds. N. Cabrol and E. Grin, pp. 195-223, Elsevier, Oxford, UK, <https://doi.org/10.1016/B978-0-444-52854-4.00007-6>.
- (9) Grant, J. A., R. P. Irwin, III and **S. A. Wilson** (2010), Aqueous depositional settings in Holden crater, Mars, *Lakes on Mars*, Eds. N. Cabrol and E. Grin, pp. 323-346, Elsevier, Oxford, UK, <https://doi.org/10.1016/B978-0-444-52854-4.00008-8>.
- (8) Grant, J. A., **S. A. Wilson**, E. Noe Dobrea, R. L. Fergason, J. L. Griffes, J. M. Moore and A. D. Howard (2010), HiRISE views an enigmatic deposit in the Sirenum Fossae region of Mars, *Icarus*, 205 (1), 53-63, <https://doi.org/10.1016/j.icarus.2009.04.009>.
- (7) Grant, J. A., **S. A. Wilson**, C. M. Fortezzo, and D. A. Clark (2009), Geologic map of MTM - 20012 and -25012 quadrangles, Margaritifer Terra region of Mars, *U. S. Geol. Sur.*, Scientific Investigations Map 3041, scale 1:1,000,000, <https://doi.org/10.3133/sim3041>.
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- (148) **Wilson, S. A.**, J. M. Davis, W. E. Dietrich, R. M. E. Williams, L. M. Thompson, C. M. Fedo, C., A. B. Bryk, J. A. Grant, E. Kite, and A. N. Rudolph (2024), The nature and location of the upper Gediz Vallis ridge basal contact in Gale crater, Mars, Abstract 2224, LPSC LV, LPI, The Woodlands, TX.
- (147) Rudolph, A. N., **S. A. Wilson**, R. A. Yingst, A. C. Cowart, S. G. Banham, A. L. Robers, L. C. Kah (2024), Grain characterization and distribution within Mount Sharp bedrock approaching the upper Gediz Vallis ridge in Gale crater, Mars, Abstract 1165, LPSC LV, LPI, The Woodlands, TX.
- (146) Thompson, L. M., W. E. Dietrich, **S. A. Wilson**, J. M. Davis, J. A. Grant, R. M. E. Williams,, and APXS Team (2024), APXS chemistry of Gediz Vallis ridge blocks, Gale crater, Mars – The Greenheugh Pediment/Bradbury Group Connection. What does it all mean? Abstract 2470, LPSC LV, LPI, The Woodlands, TX.
- (145) Grant, J. A., M. E. Hoffman, H. E. Newsom, T. Kubacki, C. Juarez, N. Moore, **S. A. Wilson**, T. J. Parker, and W. E. Dietrich (2024), Exploring the Jau crater cluster, Gale crater, Mars, Abstract 1996, LPSC LV, LPI, The Woodlands, TX.
- (144) Bryk, A. B., W. E. Dietrich, C. M. Fedo, G. Caravaca, J. M. Davis, M. P. Lamb, J. A. Grant, R. c. Wiens, O. Gasnault, J. P. Grotzinger, A. R. Vasavada, K. Stack-Morgan, R. E. Arvidson, S. Le Mouelic, V. K. Fox, K. A. Bennett, S. Gupta, R. M. E. Williams, K. W. Lewis, D. M. Rubin, A. A. Fraeman, S. Banham, M. N. Hughes, M. Turner, **S. A. Wilson**, and E. S. Kite, E. S. (2024), In situ investigation of the Gediz Vallis ridge: A remnant late state debris flow dominated fan deposit in Gale crater, Abstract 1770, LPSC LV, LPI, The Woodlands, TX.
- (143) Haber, J. T., R. P. Irwin, A. M. Morgan, B. Horgan, **S. A. Wilson** (2024), Understanding the origin of alteration minerals in Martian fan deposits, Abstract 2050, LPSC LV, LPI, The Woodlands, TX.
- (142) Davis, J. M., W. E. Dietrich, C. A. Mondro, **S. A. Wilson**, G. Caravaca, R. M.E. Williams, L. Thomson, O. Gasnault, G. Paar, E. S. Kite, A. B. Bryk, S. G. Banham, S. Gupta, and A. L. Roberts (2024), The Upper Gediz Vallis Ridge at Gale Crater: Sedimentary Rock Clasts Transported by a Late-Stage Debris Flow on Mars?, EGU Abstract, Vienna, Austria.
- (141) Howard, A. D. **et al.** (2024), Modification of martian impact craters by ice-related processes as a function of age and latitude, EGU Abstract, Vienna, Austria.
- (140) **Wilson, S. A.** and J. A. Grant (2023), Geologic Mapping of MTM Quadrangles -20022, -25022, -20017, and -25017 in Margaritifer Terra on Mars. GSA Annual Meeting, Abstract 394640, Pittsburgh, PA, 15-18 October, poster.
- (139) Grant, J. A., R. Manogaran, **S. A. Wilson** (2023), Late drainage along portions of Samara Valles, West of Jones crater, Margaritifer Terra, Mars. GSA Annual Meeting, Abstract 394128, Pittsburgh, PA, 15-18 October, talk.
- (138) Manogaran, R., J. A. Grant, and **S. A. Wilson** (2023), Late stage discharge estimates along portions of Samara Valles, west of Jones crater, Margaritifer Terra, Mars, GSA Annual Meeting, Abstract 393213, Pittsburgh, PA, 15-18 October, talk.

- (137) **Wilson, S. A.** et al. (2023), The Gediz Vallis system in Gale crater on Mars: HiRISE views of the inverted channel, Abstract 1355, LPSC, LPI, The Woodlands, Texas.
- (136) Grant, J. A., R. Manogaran, and **S. A. Wilson** (2023), Evidence for late drainage along portions of Samara Valles, Margaritifer Terra, Mars, Abstract 1700, LPSC, LPI, The Woodlands, Texas.
- (135) Warren, A. O., **S. A. Wilson**, E. S. Kite (2023), Mechanisms for overspilling fresh, young Martian craters multiple times, and above the lowest points on their rims, Abstract 2584, LPSC, LPI, The Woodlands, Texas.
- (134) Davis, J. et al. (2023), The Gediz Vallis inverted channel: Evidence for late-stage flow in Gale crater, Mars? Abstract 1964, LPSC, LPI, The Woodlands, Texas.
- (133) Irwin, R. P., R. A. Craddock, J. A. Grant, A. D. Howard, J. M. Moore, A. M. Morgan, R. M. Ramierz, and **S. A. Wilson** (2023), Three distinct phases of fluvial erosion on Mars, Abstract 2964, LPSC, LPI, The Woodlands, Texas.
- (132) **Wilson, S. A.**, and J. A. Grant (2022), Geologic Mapping in Margaritifer Terra on Mars, Abstract EP44A-10, 2022 Fall Meeting, AGU, Chicago, 12-16 Dec.
- (131) Grant, J. A., R. Manogaran, **S. A. Wilson**, Late Drainage Along Portions of Samara Valles, Margaritifer Terra, Mars, Abstract EP55C-0798, 2022 Fall Meeting, AGU, Chicago, 12-16 Dec.
- (130) Lehnigk, K., **S. A. Wilson**, J. A. Grant, Morphology of the Ares Vallis region on Mars, and implications for canyon formation, Abstract EP42D-1642, 2022 Fall Meeting, AGU, Chicago, 12-16 Dec.
- (129) **Wilson, S. A.**, and J. A. Grant (2022), Mind the gap: Geologic mapping in Margaritifer Terra, Mars, Abstract 7045, Annual Meeting of the Planetary Geologic Mappers, June 22-23, Flagstaff, AZ/Virtual.
- (128) **Wilson, S. A.**, and A. D. Howard (2022), The distribution of glacio-fluvial landforms in the southern mid-latitude region of Mars, LPSC, Invited speaker in the ECA plenary session, Abstract #2904.
- (127) **Wilson, S. A.**, N. Warner, J. Mueller, J. A. Grant, M. Golombek, C. Weitz, and M. Banks (2022), The geomorphic evolution of lava plains at the Spirit and InSight landing sites: Comparison of crater retention ages and erosion rates using HiRISE, LPSC, Abstract #2290.
- (126) Morgan, A. M., **S. A. Wilson**, and A. D. Howard (2022), Geographic distribution and morphological characteristics of fan-shaped sedimentary landforms on Mars, LPSC.
- (125) Kite, E. S., M. A. Mischna, B. Fan, A. M. Morgan, **S. A. Wilson**, M. I Richardson (2022), The decline of Mars' greenhouse effect charted by the changing spatial distribution of water flow, LPSC.
- (124) Grant, J. A., **S. A. Wilson**, M. Golombek, A. Trussell, N. H. Warner, N. Williams, C. M. Weitz, H. Abarca, R. Deen (2022), Constraints on degradation at the InSight landing site, Homestead hollow, from rock heights and shapes, LPSC.
- (123) Warner, N. H., M. P. Golombek, V. Ansan, E. Marteau, N. Williams, J. A. Grant, E. Hauber, C. Weitz, **S. Wilson**, S. Piqueux, N. Mueller, M. Grott, I. Daubar, J. Garvin, C. Charalambous, M. Baker, M. Banks (2022), In-situ and orbital stratigraphic observations from the InSight landing site, Mars, LPSC.
- (122) Grant, J. A., **S. A. Wilson**, A. Trussell, N. H. Warner, N. R. Williams, C. M. Weitz, H. Gengl, R. G. Deen, (2021), Degradation at the InSight Landing Site, Homestead Hollow, Mars: Constraints from Rock Heights and Shapes, 2021 Fall Meeting, AGU, New Orleans, 13-17 Dec.

- (121) **Wilson, S.A.**, A. D. Howard, and A. M. Schwarz (2021), The Nature and Distribution of “Pollywog” Craters and Fresh Shallow Valleys: Implications for Late Fluvial Activity on Mars, P15E-2141, Invited Speaker, Presented at 2021 Fall Meeting, AGU, New Orleans, 13-17 Dec.
- (120) **Wilson, S. A.**, N. H. Warner, J. Mueller, J. A. Grant, M. P. Golombek, C. Weitz (2021), The geomorphic evolution of lava plains at the InSight and Spirit landing sites: Comparison of crater retention ages and morphology, Abstract 240-10, Presented at the 2021 Fall Meeting, GSA, Portland, 10-13 October.
- (119) Kite, E., M. Mischna, A. Morgan, **S. Wilson**, and M. Richardson (2021), Shifting distribution of rivers on Mars indicates that average pCO₂ had already fallen before the end of Mars’ river-forming era, Habitable Worlds Conference, Abstract 2021-RC-59-AAS.Grant, J. A., and Wilson, S. A. (2021), Late Aqueous Activity on Mars: Evidence from Southern Margaritifer Terra and Gale Crater: LPSC LII, abstract 1719, LPI, Houston, TX.
- (118) Golombek, M. P., Warner, N. H., Grant, J. A., Weitz, C. M., **Wilson, S. A.**, and Williams, N. (2021), Comparison of degradation rates at the InSight and spirit landing sites: LPSC LII, abstract 1563, LPI, Houston, TX.
- (117) **Wilson, S. A.**, Morgan, A. M., Howard, A. D., and Grant, J. A. (2021), A global inventory of craters with alluvial fans and delta on Mars: LPSC LII, abstract 2703, LPI, Houston, TX.
- (116) **Wilson, S. A.**, and A. D. Howard (2021), Distribution Characteristics of Martian Southern Mid-latitude Pollywog Craters, LPSC LII, abstract 1105, LPI, Houston, TX.
- (115) E. S. Kite, L. J. Steele, M. A. Mischna, **S. A. Wilson**, A. M. Morgan, B. Fan, M. I. Richardson (2021), Sustaining Mars Surface Habitability: Climate and Climate Evolution: LPSC LII, abstract 1703, LPI, Houston, TX.
- (114) **Wilson, S. A.** and J. A. Grant (2021), Geologic mapping of MTM quadrangles -20022, -25022, -20017, and -25017 in Margaritifer Terra, Mars, Annual Meeting of the Planetary Geologic Mappers, June 14-15, Abstract 7042.
- (113) **Wilson, S. A.**, A. M. Morgan, A. D. Howard (2020), The global distribution of craters with alluvial fans and deltas on Mars, GSA Annual Meeting, Abstract 249-7.
- (112) Weitz, Catherine, J. Bishop, J. A. Grant, **S. Wilson**, A. Saranathan, Y. Itoh, M. Parente (2020), Clay sediments derived from fluvial activity in and around Ladon basin, Mars, GSA Annual Meeting, Abstract 249-5.
- (111) Grant, J.A., and **S. A. Wilson** (2020), Evidence for late aqueous activity in Margaritifer Terra and Gale crater, Mars, AGU Fall Meeting, Abstract 697544
- (110) **Wilson, S. A.**, N. Warner, J. A. Grant, M. P. Golombek, C. M. Weitz (2020), Comparison of crater retention ages at the InSight and Spirit landing sites, 51st LPSC, Abstract 2247.
- (109) Grant, J. A., N. H. Warner, C. M. Weitz, M. P. Golombek, **S. A. Wilson**, et al., (2020), The origin of rocky field at the InSight landing site in Homestead Hollow and implications for the timing of degradation, 51st LPSC, Abstract 2166.
- (108) Warner, N. H., J. A. Grant, **S. A. Wilson**, et al., (2020), An impact crater origin for the Homestead Hollow, The InSight landing site on Mars, 51st LPSC, Abstract 1536.
- (107) Howard, A.D., A.M. Morgan, **S. A. Wilson**, J. M. Moore, O. L. White (2020), A bad day at Majuro crater: Extensive modification by a nearby impact, 51st LPSC, Abstract 1235.
- (106) Kite, E.S., A. O Warren, M. A. Mischna, A.M. Morgan, **S. A. Wilson**, K. A. Keating (2020), Why did Mars dry out? 51st LPSC, Abstract 1657.
- (105) **Wilson, S. A.**, N. Warner, J. Grant, M. Golombek, C. Weitz, A. DeMott, M. Kopp, E. Hauber, V. Ansan, C. Charalambous, W. Pike, H. Lethcoe-Wilson, R. Hausmann (2019), Crater Retention Ages at the InSight and Spirit Landing Sites, AGU 9-13 December, San Francisco, CA, Abstract # DI51B-0030 (poster).

- (104) Morgan, A., and **S. A. Wilson** (2019), Late Amazonian alluvial fan formation in southern Acidalia Planitia, Mars, AGU 9-13 December, San Francisco, CA, Abstract # EP21E-2206 (poster).
- (103) Weitz, C. J. Grant, N. Warner, M. Golombek, E. Hauber, V. Ansan, **S. A. Wilson**, C. Charalambous, N. Williams, F. Calef, W. Pike, H. Lethcoe-Wilson, J. Maki, A. DeMott, M. Kopp (2019), Comparison of InSight Homestead hollow to Spirit Laguna hollow, AGU 9-13 December, San Francisco, CA, Abstract # DI51B-0022.
- (102) Golombek, M., N. Warner, J. Grant, E. Hauber, V. Ansan, C. Weitz, N. Williams, C. Charalambous, **S. A. Wilson**, T. Parker, I. Daubar, E. Marteau, N. Mueller, S. Piqueux, W. Pike, A. DeMott, M. Kopp, H. Lethcoe-Wilson, L. Berger, R. Hausmann, M. Banks, M. Baker, J. Garvin (2019), Geology of the InSight Landing Site, Mars, AGU 9-13 December, San Francisco, CA, Abstract # DI42A-01.
- (101) Kite, E. S., S. Holo, A. Morgan, **S. A. Wilson**, K. Keating (2019), Charting and Dating the Decline of Mars Surface Habitability, AGU 9-13 December, San Francisco, CA, Abstract EP24A-07.100.
- (100) **Wilson, S. A.**, N. Warner, J. Grant, M. Golombek, C. Weitz, A. DeMott, M. Kopp, E. Hauber, V. Ansan, C. Charalambous, W. Pike, H. Lethcoe-Wilson, R. Hausmann (2019), Crater Retention Ages at the InSight and Spirit Landing Sites, 16th InSight Science Team Meeting, October 21-25, Los Angeles, CA (poster).
- (99) **Wilson, S. A.**, and J. A. Grant (2018), Geologic mapping of Morava Valles and Margaritifer basin on Mars, GSA Annual Meeting, Indianapolis, IN, No. 138-6.
- (98) Moore, J. M., A. D. Howard, W. B. McKinnon, A. M. Morgan, P. M. Schenk, O. M. Umurhan, O. L. White, R. M. E. Williams, **S. A. Wilson** (2018), GSA Planetary Geology Division G. K. Gilbert Lecture: Degradation across the solar system, GSA Annual Meeting, Indianapolis, IN, No. 215-1.
- (97) Morgan, A. M., and **S. A. Wilson** (2018), Global distribution of alluvial fans and deltas on Mars, GSA Annual Meeting, Indianapolis, IN, No. 215-3.
- (96) Grant, J. A., M. P. Golombek, **S. A. Wilson**, K. A. Farley, K. H. Williford, K. M. Stack, and A. Chen (2018), The science process for selecting the landing site for the 2020 Mars rover, GSA Annual Meeting, Indianapolis, IN, No. 215-9.
- (95) **Wilson, S. A.**, A. M. Morgan, A. D. Howard (2018), Inventory of Alluvial Fans on Mars and Detailed Mapping in Roddy Crater, AGU Fall Meeting, Washington, DC, 10-14 December, EP13B-02 (invited talk).
- (94) Grant, J. A. and **S. A. Wilson** (2018), The Evolution of Margaritifer Basin, Mars, AGU Fall Meeting, Washington, DC, 10-14 December, P53F-3032 (poster).
- (93) **Wilson, S. A.**, N. H. Warner, J. A. Grant, M. P. Golombek, A. DeMott, M. Kopp, L. Berger, C. M. Weitz, E. Hauber, V. Ansan, C. Charalambous, N. Williams, F. Calef, T. Pike, H. Lethcoe, and R. Hausmann (2019), Crater retention ages at the InSight landing site: Implications for the degradation history of Homestead hollow, 50th LPSC, Abstract 2161.
- (92) Morgan, A. M., and **S. A. Wilson** (2019), Utilizing a global database to explore morphologic trends of martian alluvial fans, 50th LPSC, Abstract 3256.
- (91) Grant, J. A., N. H. Warner, C. M. Weitz, M. P. Golombek, **S. A. Wilson**, E. Hauber, V. Ansan, C. Charalambous, N. Williams, F. Calef, T. Pike, A. DeMott, M. Kopp, H. Lethcoe (2019), Modification of Homestead hollow at the InSight landing site based on the distribution and properties of local deposits, 50th LPSC.

- (90) Weitz, C. M., J. A. Grant, N. H. Warner, M. P. Golombek, **S. A. Wilson**, E. Hauber, V. Ansan, C. Charalambous, N. Williams, F. Calef, T. Pike, H. Lethcoe, J. Maki, A. DeMott, and M. Kopp (2019), Clast sizes and shapes at the InSight landing site, 50th LPSC.
- (89) M. Golombek, N. H. Warner, J. Grant, E. Hauber, V. Ansan, C. Weitz, N. Williams, C. Charalambous, **S. Wilson**, T. Parker, W. T. Pike, A. DeMott, M. Kopp, H. Lethcoe-Wilson, L. Berger, M. Banks, J. Garvin (2019), Geology of the InSight landing site, Mars: Initial observations, 50th LPSC.
- (88) N. H. Warner, M. P. Golombek, J. Grant, **S. Wilson**, E. Hauber, V. Ansan, C. Weitz, C. Charalambous, T. Pike, N. Williams, F. Calef, A. DeMott, M. Kopp, H. Lethcoe, L. Berger (2019), Geomorphology and origin of Homestead hollow, the landing location of the InSight lander on Mars, 50th LPSC.
- (87) V. Ansan, E. Hauber, M. Golombek, N. Warner, J. Grant, J. Maki, R. Deen, F. Calef, C. Weitz, J. Garvin, **S. Wilson**, N. Williams, C. Charalambous, T. Pike, H. Lethcoe, M. Kopp, A. De Mott, S. Smrekar, B. Banerdt, and R. Lorenz (2019), InSight landing site: Stratigraphy of the regolith beneath the lander and in its surroundings, and implications for formation processes, 50th LPSC.
- (86) C. Charalambous, M. Golombek, T. Pike, N. H. Warner, C. Weitz, V. Ansan, E. Hauber, J. Grant, N. Williams, **S. Wilson**, A. DeMott, M. Kopp, H. Lethcoe (2019), Rock distributions at the InSight landing site and implications based on fragmentation theory, 50th LPSC.
- (85) N. R. Williams, M. P. Golombek, N. H. Warner, I. J. Daubar, R. B. Hausmann, E. Hauber, V. Ansan, J. A. Grant, C. M. Weitz, **S. Wilson**, C. Charalambous, T. Pike, R. D. Lorenz, J. N. Maki, H. E. Abarca, N. A. Ruoff, R. G. Deen, J. B. Garvin, T. J. Parker, F. J. Calef, H. A. Lethcoe, L. M. Berger, A. DeMott, M. Kopp (2019), Surface alteration from landing InSight on Mars and its implications for shallow regolith structure, 50th LPSC.
- (84) Kite, E.S., S. Holo, A. Morgan, **S. A. Wilson**, K. A. Keating (2019), Charting the Decline of Mars Surface Habitability, EPSC, Vol. 13, EPSC-DPS2019-55-2 (poster).
- (83) Hauber, H., V. Ansan, M. Golombek, N. Warner, C. Szezech, S. Adeli, C. Charalambous, F. Calef, N. Williams, J. Maki, J. Grant, C. Weitz, **S. A. Wilson**, J. Garvin and the InSight Geology Team (2019), Geology of the InSight landing site, Mars: Initial results, EPSC-DPS2019-1794 (oral).
- (82) Constantinos, C., M. Golombek, T. Pike, N. Warner, V. Ansan, E. Hauber, C. Weitz, J. Grant, N. Williams, **S. A. Wilson**, A. DeMott, M. Kopp, and H. Lethcoe (2019), Rock size distributions at the InSight landing site, EPSC, EPSC-DPS2019-1910 (oral).
- (81) **Wilson, S. A.**, and A. D. Howard (2019), The nature and distribution of pollywog craters on Mars, GSA Annual Meeting, Phoenix, AZ, No. 86-6.
- (80) Golombek, M. N. Warner, J. Grant, E. Hauber, V. Ansan, C. Weitz, N. Williams, C. Charalambous, **S. A. Wilson**, T. Parker, I. Daubar, E. Marteau, N. Mueller, S. Piqueux W. Pike, A. DeMott, M. Kopp, H. Lethcoe-Wilson, L. Berger, R. Hausmann, M. Banks, M. Baker, J. Garvin (2019), Geology of the InSight landing site, Mars, GSA Annual Meeting, Phoenix, AZ, No. 246-5.
- (79) Warner, N. A. DeMott, **S. A. Wilson**, M. Golombek, J. Grant, C. Weitz, E. Hauber, V. Ansan, N. Williams, C. Charalambous, M. Banks, W. Pike, M. Kopp (2019), An impact origin for Homestead Hollow, the landing location of the InSight lander on Mars, GSA Annual Meeting, Phoenix, AZ, No. 246-6.
- (78) Grant, J., N. Warner, C. Weitz, M. Golombek, **S. A. Wilson**, E. Hauber, V. Ansan, C. Charalambous, N. Williams, F. Calef, W. Pike, A. DeMott, M. Kopp, H. Lethcoe-Wilson, M.

- Banks (2019), Modification of Homestead Hollow at the InSight landing site, GSA Annual Meeting, Phoenix, AZ, No. 246-7.
- (77) Williams, N. M. Golombek, N. Warner, I Daubar, R. Hausmann, E. Hauber, V. Ansan, J. Grant, C. Weitz, **S. A. Wilson**, C. Charalambous, W. Pike, R. Lorenz, M. Banks, J. Maki, H. Gengl, N. Ruoff, R. Deen, J. Garvin (2019), Surface alteration from landing InSight on Mars and its implications for shallow regolith structure, GSA Annual Meeting, Phoenix, AZ, No. 246-9.77.
- (76) **Wilson, S. A.**, N. H. Warner, J. A. Grant, M. P. Golombek, A. DeMott, M. Kopp, L. Berger, C. M. Weitz, E. Hauber, V. Ansan, C. Charalambous, N. Williams, F. Calef, T. Pike, H. Lethcoe, and R. Hausmann (2019), Crater retention ages at the InSight landing site: Implications for the degradation history of Homestead hollow, 16th InSight Science Team meeting, June, Paris, France (poster).
- (75) Grant, J. A., M. P. Golombek, **S. A. Wilson**, K. A. Farley, K. H. Williford, A. Chen (2018), The science process for selecting the landing site for the 2020 Mars rover, European Planetary Science Congress, Berlin, Germany, Abstract EPSC2018-578. poster.
- (74) **Wilson, S. A.**, and J. A. Grant (2018), Alluvial fans in Roddy crater on Mars, Annual Planetary Geologic Mappers Meeting, Knoxville, TN, talk.
- (73) **Wilson, S. A.**, J. A. Grant, and K. K. Williams (2018), Geologic Mapping in Margaritifer Terra MTM quadrangles -10022 and -15022. Annual Planetary Geologic Mappers Meeting, Knoxville, TN, poster.
- (72) **Wilson, S. A.**, A. D. Howard and J. A. Grant (2018), Alluvial Fans in Roddy Crater on Mars, *49th Lunar and Planetary Science Conference*, The Woodlands, TX, Abstract 2649, talk.
- (71) Grant, J. A. and **S. A. Wilson** (2018), Possible Geomorphic and Crater Density Evidence for Late Aqueous Activity in Gale Crater, *49th Lunar and Planetary Science Conference*, The Woodlands, TX, Abstract 2102, talk.
- (70) Morgan, A. M., **S. A. Wilson**, A. D. Howard, R. A. Craddock and J. A. Grant (2018), Global Distribution of Alluvial Fans and Deltas on Mars, *49th Lunar and Planetary Science Conference*, The Woodlands, TX, Abstract 2219, talk.
- (69) Hughes, M. N., R. E. Arvidson, J. A. Grant, **S. A. Wilson** and A. D. Howard (2018), Degradation of Endeavour Crater Based on Orbital and Rover-Based Observations together with Landscape Evolution Modeling, *49th Lunar and Planetary Science Conference*, The Woodlands, TX, Abstract 1563, talk.
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- (67) Grant, J. A. and **S. A. Wilson** (2017), Impact craters as a tool for measuring the amount and processes of degradation on Mars, *Geol. Soc. Of America*, Seattle, WA, October 22-25, Abstract 244-1, talk.
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- (36) Howard, A. D., A. M. Morgan, D. E. J. Hopley, J. M. Moore, W. E. Dietrich, R. M. E. Williams, D. M. Burr, J. Grant, **S. A. Wilson** and Y. Matsubara (2013), Sedimentology and climatic environment of alluvial fans in the Martian Saheki crater and a comparison with terrestrial fans in the Atacama Desert, *Geol. Soc. of America Abstracts with Programs*, 45 (7), p.639, October 27-30.
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