

Brian Jackson

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Education

Ph.D. Planetary Sciences U of AZ 2009 May
– Advisor: Prof. Richard Greenberg
– Dissertation Title: “Tidal Evolution of Extra-Solar Planets”
B.S. (Summa cum Laude) Physics Georgia Institute of Technology 2004 May

Positions

Director, Central Idaho Dark Sky Reserve STEM Network
AAS, Division of Planetary Sciences Executive Committee Member 2021 - Present
Scientific Editor, American Astronomical Society Journals 2020 - Present
Associate Prof., Boise State Physics 2019 - Present
NASA Mars Program Office, Mars Concurrent Exploration SAG 2022
Assistant Prof., Boise State Physics 2014 - 2019
Carnegie DTM Astronomy Postdoctoral Fellow 2011-2014
Instructor, U of MD Astronomy Dept. 2010
NASA internship mentor/geology field trip leader 2010, 2011
NASA Postdoctoral Program Fellow, NASA’s Goddard 2009-2011
NASA Earth and Space Sciences Graduate Fellow (NESSF), U of AZ 2008-2009
Graduate Research Associate, U of AZ 2004-2008
Georgia Space Grant Fellow, Jet Propulsion Lab 2004
Caltech Summer Undergraduate Research Fellow, Jet Propulsion Lab 2003

Funding (Total: \$2.81M)

“Doomed Worlds”, Idaho Space Grant Consortium 2024
– Proposal PI: Brian Jackson, Boise State University
– Total Budget: \$24k
“Exploring Martian Boundary Layer Processes”, NASA Mars Data Analysis Program 2023-2025
– Proposal PI: Brian Jackson, Boise State University
– Program Point-of-Contact: Mitch Schulte
– Total Budget: \$366k
“Confirming Ultra-Hot Jupiters from TESS”, NASA TESS Guest Investigator Cycle 5 2022-2023
– Proposal PI: Brian Jackson, Boise State University
– Program Point-of-Contact: Hannah Jang-Condell
– Total Budget: \$69k
NASA Science Activation Program 2022-2024
<https://science.nasa.gov/learners>
– Proposal PI: Brian Jackson, Boise State University

- Total Budget: \$1.5M
- “In-Situ Surface-Atmosphere Interactions” Workshop, NASA TWSC 2022-2023
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Delia Santiago-Materese, delia.santiago-materese@nasa.gov
 - Total Budget: \$52k
- “Finding the Next Doomed Worlds”, NASA’s XRP 2022-2025
 - Proposal PI: Elisabeth Adams, Planetary Science Institute
 - Proposal Co-I: Brian Jackson, Boise State University
 - Program Point-of-Contact: Hannah Jang-Condell
 - Total Budget: \$705,335 (Jackson’s portion – \$190,224)
- Boise State Planetarium, Idaho STEM Action Center Spring 2020
 - <https://stem.idaho.gov/apply/p3/>
 - Proposal PI: Brian Jackson, Boise State University
 - Total Budget: \$7.5k
- Boise State Planetarium, Private Fund-Raising Campaign Fall 2019-Spring 2020
 - Total Budget: \$12.5k
- Boise State Planetarium, Boise State Pony Up Crowd-Funding Campaign Fall 2018
 - <https://ponyup.boisestate.edu/planetarium>
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Cara Walker, carawalker@boisestate.edu
 - Total Budget: \$5.9k
- “Dust Devil Survey Using an Instrumented UAV”, NASA Idaho Space Grant Consortium Fall 2018-Spring 2021
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Susie Johnson, susiej@uidaho.edu
 - Total Budget: \$24,358
- “Capturing Devils in the Desert”, NASA Solar System Workings 2018-2023
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Jennifer Heldmann, hq-ssw@mail.nasa.gov
 - Total Budget: \$217,286
- Eclipse Outreach, Idaho STEM Action Center 2017
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Angela Hemingway, Angela.Hemingway@stem.idaho.gov
 - Total Budget: \$6,376
- “2017 Idaho Eclipse”, Boise State Pony Up Crowd-Funding Campaign Spring 2017
 - <https://ponyup.boisestate.edu/project/5060>
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Cara Walker, carawalker@boisestate.edu
 - Total Budget: \$10,798
- “Dust Devil Survey Using an Instrumented UAV”, NASA Idaho Space Grant Consortium 2017
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Susie Johnson, susiej@uidaho.edu

- Total Budget: \$7,000
- Exoclipse Conference, Caltech IPAC 2017
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Dawn Gelino, dawn@ipac.caltech.edu
 - Total Budget: \$20,000
- “Unstable Roche-Lobe Overflow of Gaseous Planets”, NASA’s XRP 2017-2020
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Christina Richey, christina.r.richey@NASA.gov
 - Total Budget: \$165,864
- “Bring Back Our Observatory”, Boise State Pony Up Crowd-Funding Campaign Fall 2015
<http://ponyup.boisestate.edu/observatory>
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Cara Walker, carawalker@boisestate.edu
 - Total Budget: \$10,000
- “Fossil Cores in the *Kepler* Data”, NASA’s Astrophys. Data Anal. Program 2014-2018
 - Proposal PI: Brian Jackson, Boise State University
 - Program Point-of-Contact: Doug Hudgins, Douglas.M.Hudgins@nasa.gov
 - Total Budget: \$271,200

Professional Service Projects and Awards

- “Exoplanet Systems and Stellar Life Cycles” Aspen Center for Physics, SOC 2022 - 2023
- Division of Planetary Sciences 2024 Annual Meeting, LOC Chair 2023 - 2024
- Organizer, “UAS @ BSU” Workshop at Boise State 2023 Apr 6
- Mars Concurrent Exploration Science Analysis Group member (MCE-SAG) 2022 Jun - 2023
Mar
- Organizer, “In-Situ Surface-Atmosphere Interactions” Workshop at Boise State Summer 2022
- Aeolus Mars Mission team member (PI: Dr. Anthony Colaprete, NASA Ames) 2022 - Present
- NASA Astrophysics Medium Explorer/Explorer Missions of Opportunity Panelist 2022
- Boise State, University Foundations Teaching Award 2021
- AAS-DPS Executive Committee Member 2021-Present
- AAS Journals Science Editor 2020-Present
- Division of Planetary Sciences, Local Organizing Committee Member 2020
- Thesis Committee Member for Bryan Rosenblatt (MS), BSU, Geosciences 2020-2021
- Thesis Committee Member for Steven Kreyche (PhD), U of ID, Physics 2019-2022
- NASA Discovery Mission Program (\$500M budget) panelist 2019
- Boise State Physics Faculty Search Committee Member Fall 2019-Spring 2020
- Division of Planetary Sciences Education Sub-Committee Deputy Chair 2019-Present
- Division of Planetary Sciences Education Sub-Committee Member 2015-Present
- Division of Planetary Sciences-European Planetary Science Conference 2019, Scientific Organizing Committee Member 2018-2019
- Division of Planetary Sciences Prize Sub-Committee Member 2017-2019
- Division of Planetary Sciences 2018 Meeting, Scientific Organizing Committee Member
- Thesis Committee Member for Johnathan Ahlers (PhD), U of ID, Physics Fall 2018

- Thesis title: “Spin-Orbit Misalignment of Planets Orbiting High-Mass Stars: Observations and Techniques Using NASAs Kepler Telescope”

Division of Planetary Sciences Meeting, Local Organizing Committee Member 2017
 Developed new University Foundations course, UF100 Summer 2018 - Fall 2018
 Boise State Teaching Scholars Fellow Fall 2017 - Spring 2018
 Thesis Committee Member for Shannon Mackenzie (PhD), U of ID, Physics Fall 2017
 – Thesis title: “Complex hydrocarbons in the Saturn system”

Local Organizing Committee Chair, Exoclipse Conference 2017
 Co-Chair, Physics Dept. Seminar Series Fall 2014
 Panel and External reviewer for NASA ROSES, NSF Astronomy/Astrophysics, Fonds de recherche du Quebec - Nature et technologies
 Manuscript Referee for Icarus, Astrophysical Journal, Planetary Science, Astrobiology, Nature, Science, Celestial Mechanics and Dynamical Astronomy, Monthly Notices of the Royal Astronomical Society, Aeolian Research, Earth and Planetary Science Letters, Journal of Atmospheric and Oceanic Technology
 Reviewer for *Comparative Climatology of Terrestrial Planets*, UA Press
 Journal Club organizer at Carnegie DTM
 Library Committee member at Carnegie DTM
 Exoplanet and Astrobiology Journal Club founder at NASA Goddard
 External Committee Member/Advisor for Nicole Thom (MS), U of ND, Space Sciences 2012
 – Thesis title: “Atmospheric Escape and Orbital Evolution of Exoplanets”

Public Outreach and Education

STEM Teacher Space Science Summer 2023 Workshop 2022 - 2023
 NASA-Supported Central Idaho Dark Sky Reserve STEM Network 2022 - Present
 Boise State Physics First Friday Astronomy Public Events Summer 2016 - Present
 Boise State Physics Third Thursday Virtual Planetarium Shows Spring 2021 - Fall 2022
 STEM Teacher Space Science Summer 2019 Workshop 2018-2019
 Pony Up Crowd-Funding campaign (\$11k) for regional solar eclipse outreach Spring 2017
<https://ponyup.boisestate.edu/project/5060>
 Pony Up Crowd-Funding campaign (\$10k) to refurbish on-Campus observatory Fall 2015
<https://ponyup.boisestate.edu/observatory>
 Organized \$16k+ of private telescope equipment to Boise State
 Panelist for discussion of science and theater in “Cosmic Conversations” 2016 Feb
 American Assoc. of Physics Teachers New Faculty Workshop, College Park MD 2015 Jun
 Invited Author for “Physics World” – <https://tinyurl.com/y8un6tml> 2015
 Board Member for Montgomery County MD Science Fair 2013
 Judge for Montgomery County MD Science Fair 2012, 2013
 Participant in several science documentaries 2011 Aug
 Astronomy partner with Towson U.’s Project ASTRO 2011-2012
 Astronomy partner with U of AZ Project ASTRO 2005-2006
 Regular contributor to “Astronomy” Magazine’s “Ask Astro”
 Professional NASA media training

Advisees

Chelle Szurgot (BSU Geosciences PhD) – Martian Boundary Layer Processes	2024 - Present
Malia Barker (BSU Computing PhD) – Observations of Transiting Exoplanets	2023 - Present
Dr. Rachel Huchmala (BSU Physics Postdoc) – Observations of Transiting Exoplanets	2023 - Present
Dallon Carlson (BSU Physics) – Observations of Transiting Exoplanets	2023 - Present
Hailey Stubbers (BSU Physics) – Observations of Transiting Exoplanets	2022 - Present
Justin Crevier (BSU Physics) – Terrestrial & Martian Dust Devils	2019 - Present
Bourgeois Gadjaboui (BSU Computing PhD) – Phase Curves of Exoplanets	2021 - 2022
Hallie Dodge (BSU Physics) – Terrestrial & Martian Dust Devils	2021 - 2022
Prasanna Jayanthi (BSU Physics) – Transit Photometry	2018 - 2022
Ciera Partyka-Worley (BSU Physics) – Short-Period Exoplanets	2018 - 2020
Sevio Stanton (C. of W. ID) – Short-Period Exoplanets	2019 - 2020
Chelle Szurgot (BSU Physics) – Terrestrial & Martian Dust Devils	2018 - 2021
Samantha Johnson (BSU Physics) – Short-Period Exoplanets	2017 - 2019
Went on to UNC Chapel Hill as physics grad	
Wesley Sandidge (BSU Physics) – Eclipse Variability	2016 - 2018
Went on to work for City of Boise	
Simon Roy (BSU Physics) – Unstable Roche-Lobe Overflow	2016 - 2017
Steven Kreyche (BSU Physics) – Eclipse Variability	2016 - 2017
Went on to U of ID as physics grad	
Karan Davis (BSU Physics) – Terrestrial & Martian Dust Devils	2016 - 2018
Went on to Puget Sound Power	
Jennifer Briggs (BSU Physics) – Eclipse Variability as Observed by the Kepler Mission	2015
Jacob Sabin (BSU Physics) – Adapting the Titius-Bode Law to Exoplanet Systems	2015
Elizabeth Kandziolka (BSU Physics) – Eclipse Variability	2015
Nathan Grigsby (BSU Physics) – Terrestrial & Martian Dust Devils	2015
Emily Jensen (BSU Physics) – Stable Roche-Lobe Overflow	2014 - 2016
Went on to U of WY as astronomy grad	
Ben Knipping (BSU Physics) – Short-Period Exoplanets from the Kepler Mission	2014 - 2015
David Weiss (College of Charleston) – Terrestrial & Martian Basalt Column Morphology	2011
Went on to Brown as geology grad	
Nicole Thom (U of ND) – Evaporative Mass Loss from Short-Period Exoplanets	2010
Went on to Harvard CfA as software developer	
Kynan Rilee (Princeton)	2010

Professional Training

Code/Astro participant – https://semaphore.github.io/codeastro/	Summer 2021
Certified Software Carpentry Instructor – https://software-carpentry.org/	Summer 2018
Boise State Teaching Scholars Program – Boise State’s Center for Teaching and Learning	Fall 2017-Spring 2018
Creating Rubrics: Multi-purpose tools for you and your students – Boise State’s Center for Teaching and Learning	Spring 2016

Undergraduate Research as a High Impact Learning Experience Inside the Classroom – Boise State’s Center for Teaching and Learning	Spring 2016
Faculty Writing Circle – Boise State’s Center for Teaching and Learning	Fall 2015-Spring 2016
Using Active Learning Techniques for Teaching and Assessment Workshop – Boise State’s Center for Teaching and Learning	Fall 2015
New Faculty Workshop – American Association of Physics Teachers	Summer 2015
Service-Learning Orientation – Boise State’s Center for Teaching and Learning	Fall 2014

Publications – h-index: 32, total ref. pubs: 52, total citations: 3100+ ([Student authors](#)).

Refereed Articles

- E. R. Adams, **B. JACKSON**, A. A. Sickafoose, J. P. Morgenthaler, H. Worters, H. Stubbers, D. Carson, S. Bhure, S. Dekeyser, C. Huang, & N. N. Weinberg. Doomed Worlds I: No new evidence for orbital decay in a long-term survey of 43 ultra-hot Jupiters. *arXiv e-prints*, arXiv:2404.07339, 2024.
- B. JACKSON**, E. R. Adams, & J. P. Morgenthaler. Metrics for Optimizing Searches for Tidally Decaying Exoplanets. *AJ*, 166(4):142, 2023.
- B. JACKSON**. Vortices and Dust Devils as Observed by the Mars Environmental Dynamics Analyzer Instruments on Board the Mars 2020 Perseverance Rover. *PSJ*, 3(1):20, 2022a.
- B. JACKSON**. Estimating Aerodynamic Properties of Planetary Surfaces using Drone Attitude. *Research Notes of the American Astronomical Society*, 6(12):264, 2022b.
- B. JACKSON**. Estimating the heights of martian vortices from mars 2020 MEDA data. *PSJ*, 3(8):203, 2022.
- E. R. Adams, **B. JACKSON**, [S. R. Johnson](#), D. R. Ciardi, W. D. Cochran, M. Endl, M. E. Everett, E. Furlan, S. B. Howell, P. Jayanthi, P. J. MacQueen, R. A. Matson, C. Partyka-Worley, J. Schlieder, N. J. Scott, S. M. Stanton, & C. Ziegler. Ultra-short-period Planets in K2. III. Neighbors are Common with 13 New Multiplanet Systems and 10 Newly Validated Planets in Campaigns 0-8 and 10. *PSJ*, 2(4):152, 2021.
- B. JACKSON**, [J. Crevier](#), [M. Szurgot](#), [R. Battin](#), C. Perrin, & S. Rodriguez. Inferring Vortex and Dust Devil Statistics from InSight. *The Planetary Science Journal*, 2(5):206, 2021.
- A. Omran, C. Oze, **B. JACKSON**, C. Mehta, L. M. Barge, J. Bada, & M. A. Pasek. Phosphine Generation Pathways on Rocky Planets. *Astrobiology*, 21(10):1264–1276, 2021.
- B. JACKSON**. On the relationship between dust devil radii and heights. *Icarus*, 338:113523, 2020. ISSN 0019-1035.
- B. JACKSON**, R. D. Lorenz, J. W. Barnes, & [M. Szurgot](#). Dust Devils on Titan. *Journal of Geophysical Research (Planets)*, 125(3):e06238, 2020.
- B. JACKSON**, E. Adams, [W. Sandidge](#), [S. Kreyche](#), & [J. Briggs](#). Variability in the Atmosphere of the Hot Jupiter Kepler-76b. *AJ*, 157(6):239, 2019.
- J. W. Barnes, S. M. MacKenzie, E. F. Young, L. E. Trouille, S. Rodriguez, T. Cornet, **B. JACKSON**, M. Ádámkovics, C. Sotin, & J. M. Soderblom. Spherical radiative transfer in c++ (src++): A parallel monte carlo radiative transfer model for titan. *The Astronomical Journal*, 155(6):264, 2018.
- B. JACKSON**, R. Lorenz, & [Davis, K.](#) A framework for relating the structures and recovery statistics in pressure time-series surveys for dust devils. *Icarus*, 299:166–174, 2018a.

- B. JACKSON**, R. Lorenz, [Davis, K.](#), & B. Lipple. Using an instrumented drone to probe dust devils on oregons alvord desert. *Remote Sensing*, 10(1):65, 2018b.
- R. D. Lorenz, **B. JACKSON**, & P. D. Lanagan. A timelapse camera dataset and markov model of dust devil activity at eldorado playa, nevada, usa. *Aeolian Research*, 33:33–43, 2018.
- E. R. Adams, **B. JACKSON**, M. Endl, W. D. Cochran, P. J. MacQueen, D. A. Duev, R. Jensen-Clem, M. Salama, C. Ziegler, C. Baranec et al. Ultra-short-period planets in k2 with companions: A double transiting system for epic 220674823. *The Astronomical Journal*, 153(2):82, 2017.
- B. JACKSON**, P. Arras, K. Penev, S. Peacock, & P. Marchant. A new model of roche lobe overflow for short-period gaseous planets and binary stars. *The Astrophysical Journal*, 835(2):145, 2017a.
- B. JACKSON**, [Jensen, E.](#), S. Peacock, P. Arras, & K. Penev. Erratum to: Tidal decay and stable roche-lobe overflow of short-period gaseous exoplanets. *Celestial Mechanics and Dynamical Astronomy*, 129(4):553–554, 2017b.
- E. R. Adams, **B. JACKSON**, & M. Endl. Ultra-short-period planets in k2 superpig results for campaigns 0–5. *The Astronomical Journal*, 152(2):47, 2016.
- R. Heller, M. Hippke, & **B. JACKSON**. Modeling the orbital sampling effect of extrasolar moons. *The Astrophysical Journal*, 820(2):88, 2016.
- B. JACKSON**, [Jensen, E.](#), S. Peacock, P. Arras, & K. Penev. Tidal decay and stable roche-lobe overflow of short-period gaseous exoplanets. *Celestial Mechanics and Dynamical Astronomy*, 126(1-3):227–248, 2016.
- B. JACKSON** & R. Lorenz. A multiyear dust devil vortex survey using an automated search of pressure time series. *Journal of Geophysical Research: Planets*, 120(3):401–412, 2015. ISSN 2169-9100. 2014JE004712.
- R. D. Lorenz & **B. JACKSON**. Dust devils and dustless vortices on a desert playa observed with surface pressure and solar flux logging. *GeoResJ*, 5:1–11, 2015.
- G. Vixie, J. W. Barnes, **B. JACKSON**, S. Rodriguez, S. Le Mouélic, C. Sotin, S. MacKenzie, & P. Wilson. Possible temperate lakes on Titan. *Icarus*, 257:313–323, 2015.
- R. D. Lorenz & **B. JACKSON**. Declining rock movement at Racetrack Playa, Death Valley National Park: An indicator of climate change? *Geomorphology*, 211:116–120, 2014.
- R. D. Norris, J. M. Norris, R. D. Lorenz, J. Ray, & **B. JACKSON**. Sliding Rocks on Racetrack Playa, Death Valley National Park: First Observation of Rocks in Motion. *PLOS ONE*, 9:8, 2014.
- K. Penev, M. Zhang, & **B. JACKSON**. POET: A Model for Planetary Orbital Evolution Due to Tides on Evolving Stars. *PASP*, 126:553–564, 2014.
- J. W. Barnes, J. C. van Eyken, **B. JACKSON**, D. R. Ciardi, & J. J. Fortney. Measurement of Spin-orbit Misalignment and Nodal Precession for the Planet around Pre-main-sequence Star PTFO 8-8695 from Gravity Darkening. *ApJ*, 774:53, 2013.
- B. JACKSON**, C. C. Stark, E. R. Adams, J. Chambers, & D. Deming. A Survey for Very Short-period Planets in the Kepler Data. *ApJ*, 779:165, 2013.
- C. C. Stark, A. P. Boss, A. J. Weinberger, **B. JACKSON**, M. Endl, W. D. Cochran, M. Johnson, C. Caldwell, E. Agol, E. B. Ford, J. R. Hall, K. A. Ibrahim, & J. Li. A Search for Exozodiacal Clouds with Kepler. *ApJ*, 764:195, 2013.
- D. Deming, J. D. Fraine, P. V. Sada, N. Madhusudhan, H. A. Knutson, J. Harrington, J. Blečić, S. Nymeyer, A. M. S. Smith, & **B. JACKSON**. Infrared Eclipses of the Strongly Irradiated Planet WASP-33b, and Oscillations of Its Host Star. *ApJ*, 754:106, 2012.
- B.-O. Demory, M. Gillon, S. Seager, B. Benneke, D. Deming, & **B. JACKSON**. Detection of

- Thermal Emission from a Super-Earth. *ApJ*, 751:L28, 2012.
- B. JACKSON**, N. K. Lewis, J. W. Barnes, L. Drake Deming, A. P. Showman, & J. J. Fortney. The EVIL-MC Model for Ellipsoidal Variations of Planet-hosting Stars and Applications to the HAT-P-7 System. *ApJ*, 751:112, 2012.
- K. Penev, **B. JACKSON**, F. Spada, & **Thom, N.** Constraining Tidal Dissipation in Stars from the Destruction Rates of Exoplanets. *ApJ*, 751:96, 2012.
- P. V. Sada, D. Deming, D. E. Jennings, **B. JACKSON**, C. M. Hamilton, J. Fraine, S. W. Peterson, F. Haase, K. Bays, A. Lunsford, & E. O’Gorman. Extrasolar Planet Transits Observed at Kitt Peak National Observatory. *PASP*, 124:212–229, 2012.
- D. Deming, P. V. Sada, **B. JACKSON**, S. W. Peterson, E. Agol, H. A. Knutson, D. E. Jennings, F. Haase, & K. Bays. Kepler and Ground-based Transits of the Exo-Neptune HAT-P-11b. *ApJ*, 740:33, 2011.
- R. D. Lorenz, **B. JACKSON**, J. W. Barnes, J. N. Spitale, & J. M. Keller. Ice rafts not sails: Floating the rocks at Racetrack Playa. *American Journal of Physics*, 79(1):2361, 2011a.
- R. D. Lorenz, **B. JACKSON**, J. W. Barnes, J. N. Spitale, J. Radebaugh, & K. H. Baines. Meteorological Conditions at Racetrack Playa, Death Valley National Park: Implications for Rock Production and Transport. *Journal of Applied Meteorology and Climatology*, 50:2361, 2011b.
- R. Barnes, S. N. Raymond, R. Greenberg, **B. JACKSON**, & N. A. Kaib. CoRoT-7b: Super-Earth or Super-Io? *ApJ*, 709:L95–L98, 2010.
- J. H. Debes & **B. JACKSON**. Too Little, Too Late: How the Tidal Evolution of Hot Jupiters Affects Transit Surveys of Clusters. *ApJ*, 723:1703–1710, 2010.
- B. JACKSON**, N. Miller, R. Barnes, S. N. Raymond, J. J. Fortney, & R. Greenberg. The roles of tidal evolution and evaporative mass loss in the origin of CoRoT-7 b. *MNRAS*, 407:910–922, 2010.
- R. D. Lorenz, **B. JACKSON**, & J. W. Barnes. Inexpensive time-lapse digital cameras for studying transient meteorological phenomena: dust devils and playa flooding. *Journal of Atmospheric and Oceanic Technology*, 27:246, 2010a.
- R. D. Lorenz, **B. JACKSON**, & A. Hayes. Racetrack and Bonnie Claire: southwestern US playa lakes as analogs for Ontario Lacus, Titan. *Planet. Space Sci.*, 58:724–731, 2010b.
- P. V. Sada, D. Deming, **B. JACKSON**, D. E. Jennings, S. W. Peterson, F. Haase, K. Bays, E. O’Gorman, & A. Lundsford. Recent Transits of the Super-Earth Exoplanet GJ 1214b. *ApJ*, 720:L215–L218, 2010.
- J. W. Barnes, R. H. Brown, J. M. Soderblom, L. A. Soderblom, R. Jaumann, **B. JACKSON**, S. Le Mouélic, C. Sotin, B. J. Buratti, K. M. Pitman, K. H. Baines, R. N. Clark, P. D. Nicholson, E. P. Turtle, & J. Perry. Shoreline features of Titan’s Ontario Lacus from Cassini/VIMS observations. *Icarus*, 201:217–225, 2009a.
- R. Barnes, **B. JACKSON**, R. Greenberg, & S. N. Raymond. Tidal Limits to Planetary Habitability. *ApJ*, 700:L30–L33, 2009b.
- R. Barnes, **B. JACKSON**, S. N. Raymond, A. A. West, & R. Greenberg. The HD 40307 Planetary System: Super-Earths or Mini-Neptunes? *ApJ*, 695:1006–1011, 2009c.
- B. JACKSON**, R. Barnes, & R. Greenberg. Observational Evidence for Tidal Destruction of Exoplanets. *ApJ*, 698:1357–1366, 2009.
- R. Barnes, S. N. Raymond, **B. JACKSON**, & R. Greenberg. Tides and the Evolution of Planetary Habitability. *Astrobiology*, 8:557–568, 2008.
- B. JACKSON**, R. Barnes, & R. Greenberg. Tidal heating of terrestrial extrasolar planets and impli-

cations for their habitability. *MNRAS*, 391:237–245, 2008a.

- B. JACKSON**, R. Greenberg, & R. Barnes. Tidal Evolution of Close-in Extrasolar Planets. *ApJ*, 678:1396–1406, 2008b.
- B. JACKSON**, R. Greenberg, & R. Barnes. Tidal Heating of Extrasolar Planets. *ApJ*, 681:1631–1638, 2008c.
- J. P. Dunn, **B. JACKSON**, R. P. Deo, C. Farrington, V. Das, & D. M. Crenshaw. An Internet Database of Ultraviolet Continuum Light Curves for Seyfert Galaxies. *PASP*, 118:572–579, 2006.

Book Chapters

- C. E. Newman, T. Bertrand, L. K. Fenton, S. D. Guzewich, **B. JACKSON**, S. R. Lewis, M. A. Mischna, L. Montabone, & D. F. Wellington. Martian dust. In *Reference Module in Earth Systems and Environmental Sciences*. Elsevier, 2021. ISBN 978-0-12-409548-9.
- B. JACKSON** & J. Carlberg. Accretion of planetary material onto host stars. *Handbook of Exoplanets*, pages 1–18, 2017.
- R. D. Lorenz & **B. JACKSON**. Dust devil populations and statistics. *Space Science Reviews*, 203(1-4):277–297, 2016.
- B. JACKSON**, R. Barnes, & R. Greenberg. Tides and Exoplanets. In *Formation and Evolution of Exoplanets*, pages 243–266. 2010.

Conference Abstracts and White Papers

- E. Adams, **B. JACKSON**, A. Sickafoose, J. Morgenthaler, [H. Stubbers](#), [D. Carlson](#), & H. Worters. Finding Doomed Worlds: searching for ultra-hot Jupiters with decaying orbits. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 55 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 403.05. 2023.
- S. Diniega, **B. JACKSON**, A. Soto, D. Banfield, C. Swann, & E. G. Rivera-Valentín. Enabling In Situ Observations of Active Surface-Atmospheric Interactions on Mars (and Maybe Other Bodies). In *LPI Contributions*, volume 2806 of *LPI Contributions*, page 1833. 2023.
- B. JACKSON**. Estimating Aerodynamic Properties of Planetary Surfaces Using Drone Attitude. In *LPI Contributions*, volume 2806 of *LPI Contributions*, page 1293. 2023.
- B. JACKSON**, E. Adams, & J. Morgenthaler. Metrics for Optimizing Searches for Tidally Decaying Exoplanets. In *AAS/Division for Planetary Sciences Meeting Abstracts*, volume 55 of *AAS/Division for Planetary Sciences Meeting Abstracts*, page 403.04. 2023.
- [C. Partyka-Worley](#), [J. Westman](#), [N. Akhtar](#), **B. JACKSON**, J. Smith, & M. Wigglesworth. AstroTAC: Astronomers-in-Training Assisting the Community. In *American Astronomical Society Meeting Abstracts*, volume 55 of *American Astronomical Society Meeting Abstracts*, page 162.07. 2023.
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Seminars, Colloquia, and Public Lectures

- 2022 Jun 13: NASA JPL Science Visitor and Colloquium Program, Pasadena CA
- 2021 Oct 29: Planetary Aeolian Processes @ Boise State Geosciences Club, Boise ID
- 2021 Mar 28: Exploring Mars Atmospheric Boundary Layer with the InSight Mission @ Boise State Geosciences Seminar, Boise ID
- 2020 Feb 22-23: Summoning Devils in the Desert @ Death Valley Dark Sky Festival, Death Valley CA
- 2019 Sep 6: Dust Devils Throughout the Solar System @ Boise State First Friday Astronomy, Boise ID
- 2019 Sep 6: Summoning Devils in the Desert @ Boise State Physics, Boise ID

- 2019 Aug 23: Astronomy Before Galileo @ Sawtooth Historical and Interpretive Assoc., Stanley ID
- 2019 Aug 6: Summoning Devils in the Desert @ Sunrise Rotary Club, Boise ID
- 2019 Jun 19: The Weather on Distant Worlds @ Kavli Institute for Theoretical Physics, Santa Barbara CA
- 2019 Apr 11: The Weather on Distant Worlds @ University of Washington Astronomy, Seattle WA
- 2019 Mar 8: Astronomy Before Galileo @ Boise Astronomical Society, Boise ID
- 2019 Mar 8: The Weather on Distant Worlds @ Boise Astronomical Society, Boise ID
- 2019 Feb 28: Aerospace Day @ Boise State University, Boise ID
- 2019 Feb 2: Alien Worlds @ Boise State Engineering & Science Festival, Boise ID
- 2018 Nov 12: Alien Worlds, Alien Life @ Osher Institute, Boise ID
- 2018 Oct 29: Alien Worlds, Alien Life @ Osher Institute, Boise ID
- 2018 Aug 2: Nampa Public Library, Nampa IA
- 2018 Jun 8: Boise Astronomical Society, Boise ID
- 2018 Jun 1: Northwest American Physical Society Meeting @ University of Puget Sound, Tacoma WA
- 2018 Apr 4: Physics & Astronomy Colloquium @ University of Texas at Dallas, Dallas TX - Host: Prof. Kaloyan Penev
- 2018 Jan 9: Thinks and Drinks @ Long Drop Cider, Boise ID
- 2018 Feb 3: Engineering and Science Festival @ Boise State, Boise ID
- 2018 Jan 30: Technologies for Exoplanetary Science Seminar @ McGill University - Host: Prof. Nicholas Cowan
- 2017 Dec 7: Astronomy Colloquium @ Lowell Observatory, Flagstaff AZ - Host: Dr. Joe Llama
- 2017 Nov 30: Physics & Astronomy Colloquium @ College of Idaho, Caldwell ID
- 2017 Sep 19: MIT Planetary Lunch Colloquium Series @ MIT, Cambridge MA - Host: John Brooks Biersteker
- 2017 Sep 25: Geosciences Colloquium @ Boise State, Boise ID - Host: Prof. Jen Pierce
- 2017 Jul 26: Idaho Conference for Undergraduate Research @ Boise State, Boise ID
- 2017 Jun 9: Boise Astronomical Society Meeting, Boise ID
- 2017 Mar 31: Formation and Dynamical Evolution of Exoplanets @ Aspen Center for Physics, Aspen CO
- 2017 Feb 27: Presentation about the Solar Eclipse @ Flying M, Nampa ID
- 2017 Feb 16: Teen Science Café @ Boise Public Library, Boise ID
- 2017 Feb 16: Research Computing Days Lightning Talk @ Boise State, Boise ID
- 2017 Feb 4: Engineering & Science Festival @ Boise State, Boise ID
- 2017 Feb 3: Aerospace Day @ Boise State, Boise ID
- 2017 Jan 27: Geology Colloquium @ University of Wyoming Geology & Geophysics, Laramie WY - Host: Prof. Robert Howell
- 2017 Jan 27: Astronomy Colloquium @ University of Wyoming Physics & Astronomy, Laramie WY - Host: Prof. Hannah Jang-Condell
- 2016 Oct 6: Viewing the 2017 Eclipse with Your Class @ Learning Across All Dimensions Teacher Conference, Boise ID
- 2016 Aug 5: Tidal Decay and Disruption of Gaseous Exoplanets @ Exoclines 2016 Conference, Quest University, Squamish BC, CA

- 2016 Apr 7: The Exoplanet Revolution @ Osher Institute, Boise ID
- 2016 Apr 1: Earth Sciences Colloquium @ University of Western Ontario, London ON, CA - Host: Prof. Catherine Neish, UWO Earth Sciences
- 2016 Mar 31: Physics and Astronomy Colloquium @ University of Western Ontario, London ON, CA - Host: Prof. Peter Brown, UWO Physics and Astronomy
- 2016 Mar 31: Centre for Planetary Science and Exploration (CPSX) Brown-Bag Talk @ University of Western Ontario, London ON, CA - Host: Prof. Catherine Neish, UWO Earth Sciences
- 2016 Feb 5: Keynote Speaker for Aerospace Day @ Boise State University, Boise ID - Host: Christine Chang Gillespie, Boise State Instfor STEM and Diversity Initiatives
- 2016 Jan 25: Physics Dept. Colloquium @ Idaho State University, Pocatello ID - Host: Prof. Steven Shropshire
- 2015 Dec 4: Astronomy Dept. Colloquium @ New Mexico State University, Las Cruces NM - Host: Prof. Jim Murphy
- 2015 Sep 24: Geosciences Dept. Seminar @ Brigham Young University, Provo UT - Host: Prof. Jani Radebaugh
- 2015 Sep 23: Physics & Astronomy Dept. Seminar @ Brigham Young University, Provo UT - Host: Prof. Clark Christensen
- 2015 Sep 4: Physics Dept. Seminar @ Boise State University, Boise ID - Host: Prof. Charles Hanna
- 2015 Jun 26: Planetary Astronomy Lunch Seminar @ University of Maryland, College Park MD - Host: Dr. Michael Kelley
- 2014 Oct 27: Geosciences Department Seminar @ Boise State University, Boise ID Host: Prof. David Wilkins
- 2014 Apr 17: Monthly Meeting Lecture @ Howard Astronomical League, Howard Co., MD Host: Chris Todd
- 2014 Mar 4: Departmental Seminar @ Boise State Univ., Boise ID Host: Prof. Daryl Macomb
- 2014 Feb 27: Departmental Seminar @ U of NE, Kearney, Kearney NE Host: Prof. W. Lee Powell
- 2014 Feb 4: Planetary Astronomy Lunch Seminar (PALS) @ U of MD, College Park MD Host: Dr. Michael Kelley
- 2013 Dec 19: Department Seminar @ Carnegie DTM, Washington DC – Host: Dr. Alycia Weinberger
- 2013 Dec 19: Department Seminar @ Carnegie DTM, Washington DC – Host: Dr. Alycia Weinberger
- 2013 Dec 11: Astronomy Colloquium @ US Naval Observatory, Washington DC – Host: Dr. Mark Stollberg
- 2013 Sep 24: Exoplanets Seminar @ NASA Goddard, Greenbelt MD – Host: Dr. Marc Kuchner
- 2013 Sep 12: Dept. of Astronomy TUNA Talk @ University of Virginia, Charlottesville VA – Host: Prof. Phil Arras
- 2013 Mar 21: Adler Planetarium Invited Seminar, Chicago IL – Host: Dr. Geza Gyuk
- 2013 Feb 13: Physics and Space Sciences Dept. Colloquium @ Florida Institute of Technology, Melbourne FL – Host: Prof. Terry Oswalt
- 2012 Nov 20: NASA's Goddard Exoplanets Seminar @ NASA/GSFC, Greenbelt MD – Host: Dr. Marc Kuchner
- 2012 Nov 14: University of Maryland Astronomy Dept. Colloquium @ University of Maryland,

- College Park MD – Host: Prof. Richard Mushotzky
- 2012 Oct 31: Carnegie DTM Colloquium @ Carnegie DTM, Washington DC – Host: Dr. Matt Fouch
- 2012 Oct 8: Special Talk @ Space Telescope Science Institute (STScI), Baltimore MD – Host: Dr. Anand Sivaramakrishan
- 2012 Apr 27: Geology Dept. Colloquium @ University of South Florida, Tampa FL - Host: Prof. Matthew Pasek
- 2012 Mar 1: Astronomy Dept. Lunch Talk @ Vanderbilt University, Nashville TN - Host: Dr. Joshua Pepper
- 2012 Feb 8: Physics Dept. Colloquium @ Lehigh University, Bethlehem PA - Host: Prof. George McCluskey
- 2011 Nov 3: Astronomy Dept. Colloquium @ Univ. of Virginia, Charlottesville VA – Host: Prof. Phil Arras
- 2011 Jun 7: Heraeus Seminar, Physikzentrum Bad Honnef, Germany (invited)
- 2011 May 12: Physics and Astronomy Dept. Colloquium @ Georgia State Univ., Atlanta GA - Host: Prof. Michael Crenshaw
- 2011 Feb 1: National Capital Astronomers monthly meeting (invited)
- 2010 May 7: Physics Dept. Colloquium @ Univ. of Idaho, Moscow ID - Host: Prof. Jason Barnes
- 2010 Apr 24: Northern Virginia Astronomy Clubs Astronomy Day (invited)
- 2010 Mar 21: Science and Exploration Director's Science Seminar @ NASA/GSFC, Greenbelt MD - Host: Joseph Nuth
- 2010 Mar 17: Wednesday Lunch Talk (Wunch) @ Princeton Astrophysics Dept., Princeton NJ - Hosts: Tim Brandt and Prof. Adam Burrows
- 2010 Feb 23: Institute for Theoretical Computation Lunch Talk @ Harvard CfA, Boston MA - Host: Dr. Darin Ragozzine
- 2010 Feb 19: Special Planetary Science Seminar @ MIT Earth, Atmospheric, and Planetary Sciences Dept., Boston MA - Host: Prof. Sara Seager
- 2010 Feb 2: Kleigel Planetary Science Seminar @ Caltech Geological and Planetary Sciences Dept., Pasadena CA - Host: Prof. Michael Brown
- 2010 Jan 13: Science Brown-Bag Seminar @ NASA Headquarters, Washington D.C. - Host: Joe Bredekamp
- 2009 Nov 19: Physics and Astronomy Dept. Colloquium @ Franklin and Marshall College, Lancaster PA – Host: Dr. Delphine Perrodin
- 2009 Oct 29: Physics and Astronomy Dept. Colloquium @ State Univ. of New York Stony Brook, Stony Brook NY – Host: Prof. Deane Peterson
- 2009 Oct 27: Astronomy and Astrophysics Dept. Pizza Lunch Seminar @ Columbia Univ., New York NY – Host: Prof. Kristen Menou
- 2009 Sep 17: Exoplanets Group Talk @ Goddard Space Flight Center, Greenbelt MD - Host: Dr. Marc Kuchner
- 2009 Jul 21: Astronomy Dept. Colloquium @ Univ. of Washington, Seattle WA - Host: Dr. Rory Barnes
- 2009 Jun 5: Astronomy Dept. Colloquium @ Univ. of California Santa Cruz, Santa Cruz CA - Host: Prof. Jonathan Fortney

Courses Taught

Fall 2023

- UF 100 - Alien Worlds, Alien Life - Syllabus

Spring 2023

- PHYS 305 - Introduction to Astrophysics and Astronomical Observing – Syllabus
- PHYS 105 - Stars and Cosmology lab

Fall 2022

- UF 100 - Alien Worlds, Alien Life - Syllabus

Spring 2021

- PHYS 341 - Mechanics
<https://sites.google.com/view/bsu2021phys341/>
- PHYS 205 - Stellar Astronomy

Fall 2020

- UF 100 - Alien Worlds, Alien Life - Syllabus

Spring 2020

- PHYS 341 - Mechanics
<https://sites.google.com/view/bsu2020phys341/>
- PHYS 205 - Stellar Astronomy

Fall 2019

- UF 100 - Alien Worlds, Alien Life - Syllabus

Spring 2019

- PHYS 341 - Mechanics
<https://sites.google.com/view/bsu2019phys341/>
- PHYS 205 - Stellar Astronomy

Fall 2018

- UF 100 - Alien Worlds, Alien Life - Syllabus

Spring 2018

- PHYS 341 - Mechanics
<https://sites.google.com/site/bsu2018phys341/>
- PHYS 205 - Stellar Astronomy

Fall 2017

- PHYS 104 - Planets and Astrobiology
- PHYS 204 - Planetary Astronomy

Spring 2017

- PHYS 341 - Mechanics
<https://sites.google.com/site/bsu2017phys341/>

- PHYS 205 - Stellar Astronomy

Fall 2016

- PHYS 104 - Planets and Astrobiology - Syllabus
- PHYS 204 - Planetary Astronomy
<https://sites.google.com/site/bsu2016phys205wiki/>

Spring 2016

- PHYS 341 - Mechanics
<https://sites.google.com/site/bsu2016phys341/>
- PHYS 205 - Stellar Astronomy
<https://sites.google.com/site/bsu2016phys205wiki/>

Fall 2015

- PHYS 104/204 - Planets and Astrobiology
<https://sites.google.com/site/bsu2015phys104/>
<https://sites.google.com/site/bsu2015phys204wiki/>

Spring 2015

- PHYS 341 - Mechanics
<https://sites.google.com/site/bsu2015phys341/>

Fall 2014

- PHYS 405 - Astrophysics
<https://sites.google.com/site/bsu2014phys405/>

Spring 2010

- ASTR 330 Solar System Astronomy (University of Maryland)