Curriculum Vitae

JONATHAN M. JACKSON

JONATHAN WI. JACKSON	
Wesleyan University	jjackson01@wesleyan.edu
Department of Astronomy & Astrophysics	(860) 685-2130
Van Vleck Observatory, 96 Foss Hill Dr.	
Middletown, CT 06459	
EDUCATION	
Ph.D. The Pennsylvania State University, State College, PA	2022
Astronomy and Astrophysics	
Graduate Minor. Computational Sciences	
Advisor: Dr. Rebekah Dawson	
M.S. The Pennsylvania State University, State College, PA	2018
Astronomy and Astrophysics	
B.A. Harvard University, Cambridge, MA	2015
Concentration. Astronomy and Astrophysics	
Secondary Field. Earth and Planetary Science	
TEACHING POSITIONS	
Instructor	
[Wesleyan University] ASTR/E&ES 555 "Planetary Science Seminar"	Fall '22,'23, Spring '23,'24
[Wesleyan University] ASTR 105 "Exploring the Cosmos"	Spring '23,'24
[Wesleyan University] ASTR 430 "Astronomical Pedagogy"	Fall 2023
[Wesleyan University] ASTR 102F "Planets Near and Far"	Fall 2022
[Penn State University] Astronomy 11 "Elementary Astronomy Laboratory"	Fall '15,'16
[Santa Cruz County Summit for Youth Leadership] "Our Solar System and Beyond"	June '13,'14
Guest Lecturer	
[Penn State University] Astronomy 140 "Life in the Universe"	Fall 2015
Teaching Assistant	
[Penn State University] Astronomy 140 "Life in the Universe"	Fall 2021
[Penn State University] Astronomy 475W "Stars and Galaxies"	Fall 2021
[Penn State University] Astronomy 130 "Black Holes in the Universe"	Spring 2020
[Penn State University] Astronomy 402W "Astronomical Telescopes and Techniques"	
[Penn State University] Telescope and Planetarium Assistant	Spring 2016
[Penn State University] Astronomy 001 "Astronomical Universe"	Fall 2015
[Penn State University] Astronomy 005 "The Sky and Planets"	Fall 2015
Intern [Smithsonian Observatory] WorldWide Telescope Ambassadors Program	2012-2013
[Smithsonian Ooservatory] World wide Telescope Allioassadors Program	2012-2013
HONORS, AWARDS, AND FELLOWSHIPS	
Planetary Science Teaching Fellowship, Wesleyan University	2022-Present
Pennsylvania Space Grant Consortium Graduate Fellowship	2021-2022
Zaccheus Daniel Fellowship, Penn State University	2018, 2019
NSF Graduate Research Fellowship, Honorable Mention Proposal Competition Winner AbGundCom Proposal Writing Workshop	2017 2016
Proposal Competition Winner, AbGradCon Proposal Writing Workshop Teaching Assistant of the Year, Penn State Astronomy Department	2015-2016
Homer F. Braddock/Nellie H. and Oscar L. Roberts Fellowship, Penn State Universi	
Undergraduate Chambliss Prize, Honorable Mention	2015-2016
Massachusetts Space Grant Consortium Undergraduate Fellowship	2014
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RESEARCH POSITIONS

Postdoctoral Teaching Fellow, Wesleyan University	2022-present
Graduate Research Assistant, Penn State University	2016-2022
Dr. Rebekah Dawson	
Undergraduate Researcher, Harvard University	2013-2015
Harvard College Research Program (HCRP) 2014	
Dr. Ruth Murray-Clay, Dr. David Charbonneau, Dr. Joseph Hora	
NSF REU Researcher, Maria Mitchell Observatory	Summer 2014
Dr. Gretchen Harris, Dr. Michael West	
Intern, WorldWide Telescope Ambassadors, Smithsonian Observatory	2012-2013
Dr. Patricia Udomprasert, Dr. Alyssa Goodman	
PROFESSIONAL ACTIVITIES	
Lead Organizer, WesAstro Equity and Ethics Journal Club	2023-present
Co-founder and Lead Organizer, Towards a More Inclusive Astronomy (TaMIA)	2016-2022
www.tamiastronomy.org	
Graduate Program Committee Member, Penn State Astronomy	2019-2021
Graduate Student Recruitment Chair, Penn State Astronomy	2017-2021
Graduate Representative, Penn State Astronomy	2019-2020
Acted as graduate student liaison to the larger department	
Scientific Organizing Committee, Emerging Researchers in Exoplanet Science (ERES) V	2019
Cornell University, June 17-19	2010
Scientific and Local Organizing Committee, ERES IV	2018
Penn State University, June 21-22	
OUTREACH	
Space Night Talk Co-coordinator, Van Vleck Observatory	2023-present
Weekly student-led public event	
Astronomy on Tap State College Speaker	April '17, June '19
AstroFest Volunteer, Penn State University	July '16,'19
Annual 4-night outreach event	
AstroNight Volunteer, Penn State University	October '15,'17
Annual 1-night outreach event	
Star Tours and Observatory Tours, Maria Mitchell Observatory	Summer 2014
Thrice weekly	

2022

PUBLICATIONS

FIRST- AND SECOND-AUTHOR PUBLICATIONS

- Gupta, A. F.; Jackson, J. M.; Hébrard, G.; et al., A High-Eccentricity Warm Jupiter Orbiting TOI-4127, 2023, The Astronomical Journal
- **Jackson, J. M.**; Dawson, R. I.; Quarles, B.; Dong, J., *Statistical Limits on High-eccentricity Migration from Kepler*, 2023, The Astronomical Journal
- Jackson, J. M.; Dawson, R. I.; Shannon, A.; Petrovich, C., Predicted Observables from Perturber-coupled High-eccentricity Tidal Migration of Warm Jupiters, 2021, The Astronomical Journal
- **Jackson, J. M.**; Dawson, R. I.; Zalesky, J., *The Origin of Kepler-419b: A Path to Tidal Migration Via Four-body Secular Interactions*, 2019, The Astronomical Journal

CO-AUTHOR PUBLICATIONS

- Dong, J.; Huang, C. X.; Zhou, G.; et al. (including Jackson, J. M.), TOI-3362b: A Proto-Hot Jupiter Undergoing High-Eccentricity Tidal Migration, 2021, The Astrophysical Journal Letters
- Udomprasert, P.; Goodman, A.; Sunbury, S.; Zhang, Z. H.; Sadler, P.; Dussault, M.; Block, S.; Lotridge, E.; **Jackson, J. M.**; Constantin, A.-M., *Visualizing Moon Phases with WorldWide Telescope*, 2014, Astronomical Society of the Pacific Conference Series [Astronomy Education Study]

PRESENTATIONS

CONTRIBUTED TALKS	
Statistical Constraints on High-eccentricity Migration of Hot Jupiters from Kepler CT Exoplanet Picnic, Wesleyan University	August 2022
Constraints on High-eccentricity Migration of Hot and Warm Jupiters Three talks at virtual exoplanet seminar series, Princeton, Yale, UCSC	Fall 2021
Observable Predictions from Perturber-coupled High-eccentricity Migration of Warm Jupiters 52 nd Meeting of the AAS Division on Dynamical Astronomy, Virtual	May 2021
Perturber-driven HEM for Warm Jupiters in the Context of Known Observables ERES V, Cornell University	June 2019
The Origin of Kepler-419b: A Path to Tidal Migration Via Four-body Secular Interactions CHEXO Meeting, University of Maryland	Feb. 2019
The Origin of Kepler-419b: A Path to Tidal Migration Through Secular Eccentricity Modulation ERES IV, Penn State University	June 2018
The Origin of Kepler-419b: A Path to Tidal Migration Through Secular Eccentricity Modulation ERES III, Yale University	June 2017
POSTER PRESENTATIONS	
Hot Planets, Hot Stars: Searching for Exoplanets Transiting Bright, Hot Stars 243 rd Meeting of the American Astronomical Society, New Orleans, LA [Student Poster]	January 2024
Observable Predictions from High-eccentricity Migration of Warm Jupiters Extreme Precision Radial Velocities V, Santa Barbara, CA	March 2023
Perturber-driven HEM for Warm Jupiters in the Context of Known Observables 235 th Meeting of the American Astronomical Society, Honolulu, HI	January 2020
Perturber-driven HEM for Warm Jupiters in the Context of Known Observables Extreme Solar Systems IV, Reykjavik, ISL	August 2019
How an Additional, Undetected Perturber Could Lead to High-eccentricity Tidal Migration Sagan Summer Workshop, NASA Exoplanet Science Institute	July 2018
The Origin of Kepler-419b: A Path to Tidal Migration Through Secular Eccentricity Modulation Habitable Worlds 2017: A System Science Workshop, University of Wyoming	Nov. 2017
Assessing 4-body Tidal Migration in the Kepler-419 System Aspen Winter Conference, Aspen Center for Physics	March 2017
Early Dynamical Upheaval in Planetary Systems AbGradCon, University of Colorado Boulder	July 2016
Early Dynamical Upheaval in Planetary Systems ERES II, Cornell University	June 2016
The Search for Mass Correlations between Globular Cluster Systems and their Host Galaxies 225th Meeting of the American Astronomical Society, Seattle, WA	January 2016