Malena Rice

CONTACT INFORMATION

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Publications, NASA ADS

RESEARCH INTERESTS

Planetary system evolution; orbital architectures; exoplanet demographics; outer solar system dynamics; exoplanet detection and characterization

APPOINTMENTS

Assistant Professor 2023-present
Department of Astronomy, Yale University

Research Faculty 2022-2023
Department of Astronomy, Yale University

51 Pegasi b Postdoctoral Fellow 2022-2023
Department of Physics, Massachusetts Institute of Technology

NSF Graduate Research Fellow 2017-2022
Department of Astronomy, Yale University

EDUCATION

Yale University, New Haven, CT 2017-2022

Ph.D. in Astronomy with Distinction (February 2022)

Dissertation: *A Dynamical Synthesis of Planetary Systems*

Advisor: Greg Laughlin

M.S., M.Phil. in Astronomy (May 2020)

University of California, Berkeley, Berkeley, CA 2013-2017

B.A. in Physics; **B.A.** in Astrophysics with High Honors (May 2017)

Distinction in General Scholarship

Honors Thesis: *Debris Disk Analysis with the Gemini Planet Imager*

Advisor: Gaspard Duchêne

FELLOWSHIPS & AWARDS (incl. $550k+ in accepted funds)

- 2025 Girls Inc. Inspiration Award 2025
- Scialog Fellow: Early Science with the LSST 2024-2026
- National Geographic Explorer 2024
- Yale Poorvu Rosenkranz Award for Pedagogical Advancement ($10k) 2024
- Yale Faculty of Arts and Sciences (FAS) Dean's Leadership Fellow 2024
- 2023 Rising Talent: Women's Forum for the Economy & Society 2023
- Scialog Fellow: Signatures of Life in the Universe 2023
- Forbes 30 Under 30 (Science) 2023
- IAU PhD Prize (Division F: Planetary Systems and Bioastronomy) 2022
- 51 Pegasi b Postdoctoral Fellowship ($385k) 2022-2023
- NASA Hubble Fellowship Program - Sagan Fellowship (declined) 2022
- Harvard CfA Postdoctoral Fellowship (declined) 2022
- NSF Graduate Research Fellowship ($102k) 2017-2022
- P.E.O. Scholar Award ($20k) 2021-2022
- Yale 3-Minute Thesis Competition "Best in STEM" Award 2021
- DDA/AAS Raynor L. Duncombe Student Research Prize 2020
- Pierazzo International Student Travel Award ($2k) 2020
- NASA CT Space Grant Graduate Research Fellowship ($8k) 2019

	• Binary Asteroids 5 Workshop Travel Award	2019
	• UC Berkeley Regents' and Chancellor's Scholarship ($10k)	2013-2017
	• UC Berkeley Leadership Award ($2k)	2013-2014, 2016-2017
	• UC Berkeley Regents' and Chancellor's Research Fellowship ($1k)	2016, 2x
	• Society of Physics Students (SPS) Travel Award	2016, 2x
	• UCL International Students Dean's Summer Student Scholarship (£5k)	2016
	• NASA CA Space Grant Undergraduate Research Fellowship	2016
	• UC Berkeley Academic Opportunity Fund Award	2015, 2016
	• Berkeley Physics Undergraduate Research Scholarship	2015, 2016
LARGE GRANTS AWARDED ($819.2k + $86k in Cloud Credits)	National Geographic Explorer Grant (PI Rice; $20k) *Orbital Architectures of Small Exoplanets with EXPRES*	2025
	NASA XRP (CoI Rice, PI Songhu Wang; $91.5k to Yale) *3D Geometries of Exoplanetary Systems: Mapping Eccentricity, Obliquity, and the Inner-Outer Planet Relation*	2024-2027
	Heising-Simons Foundation CycloAstro Grant (PI Rice; $274.4k) *Leveraging the Geologic Record to Constrain Solar System Evolution, Earth-Moon Dynamics, Paleoclimate Change, and Geological Time*	2024-2026
	Heising-Simons Foundation Research Grant (PI Rice; $128.3k) *Toward Cross-Disciplinary Exoplanet Studies*	2023-2028
	Scialog Research Grant: Signatures of Life in the Universe (PI Rice; $55k) *Investigating the Biological Potential of Moons in the Uranus System*	2023-2025
	TESS GI Cycle 6 Large Program (PI Rice; $250k) *Expanding Outer Solar System Science With TESS*	2023-2024
	Oracle for Research Project Award (PI Rice; $86k in Cloud Credits) *Unveiling the Mysteries of the Solar System with the NASA TESS Mission*	2023-2024
SMALL GRANTS AWARDED ($9k)	• NASA-NSF Observational Research Grant ($5k)	2024
	• Yale Univ. Art Gallery – Poorvu Center Curriculum Dev. Grant ($1k)	2023-2024
	• AAS International Travel Grant ($2.5k)	2022
	• DPS Education and Outreach Grant (for astro[sound]bites; $0.5k)	2020, 2021
ADMIN PI AWARDS ($892k)	• Yan Liang - 51 Pegasi b Postdoctoral Fellowship ($450k)	2025-2028
	• Quang Tran - 51 Pegasi b Postdoctoral Fellowship ($430k)	2024-2027
	• Kenny Phan - NASA CTSGC Undergraduate Research Grant ($6k)	2024
	• Hanna Adamski - NASA CTSGC Undergraduate Research Grant ($6k)	2023
NATIONAL LEADERSHIP	AAS Divison on Dynamical Astronomy (DDA) Committee Member	2025-
	NASA HWO Demographics and Architectures Sub-WG Co-Chair	2024-
	Papers culminating from sub-WG efforts: Blunt et al. (in review), Sagynbayeva et al. (in review).	
	NASA ExoExplorers Steering Committee Member	2023-
	NASA ExoExplorers Alumni Mentoring Program Lead Organizer	2024
	ExoPAG Representative, Cross-PAG SAG "New Great Observatories"	2023-2026
	Executive Committee Member, NASA ExoPAG	2023-2026
	TESS Users' Committee (TUC) Member, NASA TESS Mission	2023-2025

UNIVERSITY LEADERSHIP

Yale Admissions YES Scholars Program - Faculty Representative 2025
Participated in recruitment efforts, including a talk and event attendance, to support incoming undergraduate Yale Engineering and Science Scholars.

51 Pegasi b Postdoctoral Fellowship - Yale Institutional Contact/Coordinator 2024-
Primary organizer for all recruitment and evaluation efforts for the Heising-Simons 51 Pegasi b Postdoctoral Fellowship at Yale.

McDougal/Poorvu Graduate Teaching Fellow 2018-2022
Developed and led 36 pedagogy workshops for Yale graduate students and postdocs. Read and discussed recent literature in pedagogical studies; provided constructive feedback for instructors.

Fall Teaching at Yale Day Coordinator Fall 2021
Primary organizer of the Fall 2021 Teaching at Yale Day for incoming Yale graduate instructors.

Granville Academy Leadership Team Summer 2021
Co-organizer and co-lead of the week-long Granville Academy program of diversity and inclusion workshops designed for summer undergraduate research students in physics and astronomy.

Yale Spring Teaching Forum Coordinator Spring 2021
Member of the core leadership team organizing the 2021 Yale Spring Teaching Forum, "Looking Back and Pushing Forward: Reflecting on Remote Learning at Yale".

McDougal/Poorvu Graduate Writing Fellow 2020-2021
For 1.5 years, served as a scientific writing consultant for graduate students and postdocs at the Yale Graduate Writing Lab. Ran oral and written communication workshops, led NSF GRFP peer review groups, and conducted one-on-one consulting sessions for abstracts, grant/fellowship proposals, and other academic writing.

Yale Poorvu Center Student Advisory Committee Member 2019-2020

UC Berkeley Study Abroad Student Ambassador 2015-2017

DEPARTMENT LEADERSHIP

Yale Astronomy Colloquium Committee Chair 2024-2025

Yale Astronomy Co-Director of Graduate Admissions (DGA) 2023-2024

Yale ACDC – Co-Founder/Board Member 2018-2022
Founded the Yale Astronomy Climate and Diversity Committee (ACDC) to support inclusivity and address structural climate-related concerns in the department. Co-lead of the Sub-Committee for Undergraduate-Based Affairs (SCUBA).

Yale Exoplanets & Stars Seminar Coordinator 2020-2021

Yale Astro Sibs Program – Co-Founder/Coordinator 2018-2021
Developed and led a mentorship program between graduate students/postdocs and undergraduates in the Yale Astronomy Department.

UC Berkeley Undergrad. Astronomy Society – Founder/Head Coordinator 2015-2017
Founded and developed the undergraduate society for astrophysics majors at UC Berkeley. Provided professional development events and networking opportunities for all undergraduate astronomy majors. Programs included an annual UC Berkeley undergraduate astronomy research showcase, bi-weekly undergraduate socials, monthly departmental socials, graduate school/internship application workshops, and visiting scientist events.

UC Berkeley Astronomy Mentoring Program – Undergraduate Coordinator 2016-2017
Developed and led a mentorship program between graduate students/postdocs and undergraduates in the UC Berkeley Astronomy Department.

UC Berkeley AstroCDS – Undergraduate Coordinator 2016-2017
Revived and led the UC Berkeley Astronomy Career Development Seminar (AstroCDS) program,

which organizes informal talks and dinners with Berkeley Astronomy PhDs in industry.

RESEARCH ADVISING – POSTDOC

Nicholas Saunders, YCAA Postdoctoral Fellow, Yale University — Sep 2025 -
Yan Liang, 51 Pegasi b Postdoctoral Fellow, Yale University — Sep 2025 -
Isabella Trierweiler, Postdoctoral Associate, Yale University — Sep 2024 -
Quang Tran, 51 Pegasi b Postdoctoral Fellow, Yale University — Sep 2024 -
David Hernandez, CycloAstro Postdoctoral Fellow, Yale University — July 2024 -

RESEARCH ADVISING – GRADUATE (*thesis advised)

Kendra Nguyen, Yale University — Oct 2024 -
Surendra Bhattarai, Yale University — Sep 2024 -
*__Tiger Lu__, Yale University — June 2024 -
*__Ben Cassese__, Columbia University — Sep 2022 -
Konstantin Gerbig, Yale University — Aug 2022 -
Thiago Ferreira, Yale University — Aug 2023 - Aug 2024

RESEARCH ADVISING – UNDERGRAD (*thesis advised)

Haedam Im, MIT (Yale Hoffleit Fellow) — May 2025 -
Madeline Maldonado Gutierrez, Barnard College — May 2025 -
Parker Ellison, Yale University — May 2025 -
Mariana Ruvalcaba Cervantes, Yale University — March 2025 -
Ciana-Lei Bence, Yale University — Sep 2024 -
Kenny Phan, Yale University — May 2024 -
Em Sanzone, Yale University — May 2024 -
Yurou (Nina) Liu, Yale University — June 2023 -
Paper: Liu, Lu, & Rice 2025 (in review)
Joseph Hand, University of Kansas (Yale Hoffleit Fellow) — June 2024 - March 2025
Paper: Hand, Gerbig, & Rice 2025 (in press, ApJL)
Kyra Bettwy, Yale University — May 2024 - July 2024
Lucas Zimmermann, Yale University — May 2024 - July 2024
*__Hanna Adamski__, Yale University — Jan 2021 - May 2024
Now an Astronomy PhD student at UCLA
Qingru Hu, Tsinghua University — March 2023 - March 2024
Paper: Hu, Rice, Wang, et al. 2024
Now an Astronomy PhD student at Tsinghua University
Jude Gussman, Indiana University — Sep 2020 - Jan 2024
Paper: Gussman & Rice 2024
Now a Machine Learning Engineer at EpochGeo
Jeremiah Reynoso, Morehouse College — June 2023 - Oct 2023
Now an APS Bridge Scholar at University of Alabama
Josette Wright, Indiana University — July 2023 - Oct 2023
Paper: Wright, Rice, Wang, et. al. 2023
Now an Astronomy PhD student at UT Austin
Mahderekal Regassa, Wellesley College — Oct 2022 - Dec 2022
Ella Cassidy, Wellesley College — Oct 2022 - Dec 2022

RESEARCH ADVISING – HIGH SCHOOL

Divya Kumari, Hillsborough High School — March 2022 - July 2022
Manuscript published: IJHSR 2023 Vol. 5 Issue 1 p. 28-33 (doi:10.36838/v5i1.6)

	Rachel Feng, Central Bucks High School	June 2021 - Sep 2021
	Kaitlyn Sarkissian, Royal High School	June 2021 - Aug 2021
	Alexandra Cruz, Saint Pedro Poveda College	June 2020 - Aug 2020
SELECT NON-RESEARCH MENTORSHIP	**Simran Dhillon**, Royal High School Mentorship on preparation for an astrophysics career	2022-2023
	Denyz Melchor, UCLA Mentored through DDA Mentoring Program	2022-2023
	Grace Burton, Yale University Mentored through Yale's Astro Sibs program	2021-2022
	Kidus Dawit, High School (now undergraduate, Yale University) Mentored through Yale Young Global Scholars	2021
	Abby Mintz, Yale University (now PhD student, Princeton University) Mentored through Yale's Astro Sibs program	2018-2019
THESIS COMMITTEES	**Nikita Saini** (University of Maine; Physics)	2024-2026
	Ben Cassese (Columbia University; Astronomy & Astrophysics)	2022-2026
	Yan Liang (Princeton University; Astrophysical Sciences)	2025
	Daniel Yahalomi (Columbia University; Astronomy & Astrophysics)	2025
	Konstantin Gerbig (Yale University; Astronomy)	2025
	Tiger Lu (Yale University; Astronomy)	2025
SEMINARS & COLLOQUIA	Northwestern University CIERA Colloquium *(Evanston, IL)*	May 2025
	University of Arizona Astronomy Colloquium *(Tucson, AZ)*	April 2025
	NAU Astronomy & Planetary Science Colloquium *(Flagstaff, AZ)*	April 2025
	Harvard ITC Colloquim + ITC Luncheon *(Cambridge, MA)*	April 2025
	University of Washington Astronomy Colloquium *(Seattle, WA)*	Jan 2025
	Trinity College Physics Colloquium *(Hartford, CT)*	Oct 2024
	University of Maryland Astronomy Colloquium *(College Park, MD)*	Oct 2024
	Carnegie Observatories Colloquium *(Pasadena, CA)*	Sep 2024
	Canadian Inst. for Theoretical Astrophysics Seminar *(Toronto – Canada)*	April 2024
	University of Maine Physics and Astronomy Colloquium *(Orono, ME)*	March 2024
	Weizmann Institute A&A Seminar *(Rehovot, Israel)*	[canceled due to war]
	Columbia University Astronomy Colloquium *(New York, NY)*	Nov 2023
	Observatório Nacional (Brazil) Astrophysics Seminar *(webinar)*	May 2023
	Indiana University Astronomy Colloquium *(Bloomington, IN)*	March 2023
	Five College Astronomy Department Colloquium *(Amherst, MA)*	Dec 2022
	University of Washington Bothell Colloquium *(webinar)*	Nov 2022
	University of Cambridge Exoplanet Seminar *(webinar)*	Nov 2022
	MIT EAPS Department Lecture Series *(Cambridge, MA)*	Nov 2022
	McGill Space Institute Astronomy Seminar *(Montreal – Canada)*	Nov 2022
	Harvard CfA Exoplanet Pizza Lunch *(Cambridge, MA)*	Nov 2022
	University College London Special Seminar *(London – England)*	Oct 2022
	Harvard CfA Exoplanet Pizza Lunch *(Cambridge, MA)*	March 2022
	Yale Astronomy Colloquium *(webinar)*	Jan 2022
	Ohio State Exoplanet Talk Series *(webinar)*	Dec 2021
	Caltech Planetary Science Seminar *(Pasadena, CA)*	Nov 2021
	UCLA Tuesday Lunch Talk *(webinar)*	Oct 2021
	University of Michigan Star and Planet Formation Seminar *(webinar)*	Oct 2021
	Penn State CEHW Seminar *(webinar)*	Oct 2021
	MIT Brown Bag Seminar *(Cambridge, MA)*	Sep 2021
	Princeton Exoplanet Discussion Group Seminar *(Princeton, NJ)*	Sep 2021

	Univ. of Pennsylvania Astronomy Seminar *(Philadelphia, PA)*	Sep 2021
	UIUC Center for Astrophysical Surveys (CAPS) Seminar *(webinar)*	April 2021
	NASA JPL Exoplanet Seminar *(webinar)*	April 2021
	Harvard ITC Colloquium *(webinar)*	March 2021
	STScI Exoplanet, Star, and Planet Formation Seminar *(webinar)*	March 2021
	Indiana University Astronomy Lunch Talk *(webinar)*	Feb 2021
	MIT TESS Science Group Seminar *(webinar)*	Dec 2020
	CCA Stars & Exoplanets Meeting *(webinar)*	July 2020
	Columbia University Seminar *(webinar)*	April 2020
	San Francisco State University Colloquium *(San Francisco, CA)*	Feb 2020
	UC Berkeley CIPS Seminar *(Berkeley, CA)*	Feb 2020
	Keck Observatory Seminar *(Waimea, HI)*	Nov 2019
	NASA Astrobiology Institute Extended Science Talk *(webinar)*	Oct 2019
	University of Hong Kong Seminar *(Pok Fu Lam – Hong Kong)*	Aug 2019
	University of Chicago Exoplanet Seminar *(Chicago, IL)*	April 2019
	Yale Exoplanet Seminar *(New Haven, CT – USA)*	March 2019
	UC Berkeley Astronomy Lunch Talk *(Berkeley, CA – USA)*	April 2017
INVITED REVIEW TALKS	AAS DDA Meeting #56 *(Atlanta, GA)* Special session: *Celebrating 100 Years of the Rossiter–McLaughlin Effect: Origins and Evolution of Stellar Obliquities*	May 2025
	Know Thy Star, Know Thy Planet 2 *(Pasadena, CA)*	Feb 2025
	AAS DDA Meeting #55 (*Toronto, Canada*) Special session: *On the Formation and Dynamical Evolution of Hot Jupiters*	May 2024
	Open Problems in the Astrophysics of Gas Giants (*Puerto Natales, Chile*)	Dec 2023
INVITED CONFERENCE TALKS	Gordon Conference on the Origins of Solar Systems *(South Hadley, MA)*	June 2025
	Picture an Astronomer Symposium *(Chicago, IL)*	March 2025
	NASA ExoPAG Meeting, AAS Splinter Session *(National Harbor, MD)*	Jan 2025
	Kavli Prize Astrophysics Symposium *(Oslo, Norway)*	Sep 2024
	51 Pegasi b Summit 2024 (*Sausalito, CA*)	Aug 2024
	IAU General Assembly, Division F Days (*Cape Town, South Africa*)	Aug 2024
	Small Bodies Assessment Group Meeting # 30 (*Tucson, AZ*)	Feb 2024
	51 Pegasi b Summit 2023 (*Sausalito, CA*)	Aug 2023
	AOGS Obs. & Theor. Aspects of Exoplanets [declined] (*Singapore*)	Aug 2023
	AAS #241 – Science from the TESS Extended Mission (*Seattle, WA*)	Jan 2023
	Lowell Discovery Telescope Partners Meeting (*Boston, MA*)	Nov 2022
	TESS Science Team Meeting #29 (*Cambridge, MA*)	Oct 2022
	51 Pegasi b Summit 2022 (*Sausalito, CA*)	Aug 2022
	CT Exoplanet Picnic 2022 (*Middletown, CT*)	Aug 2022
	Science from the TESS Extended Mission (*virtual*)	Feb 2022
	Twinkle and the Next Generation of Exoplanet Scientists *(virtual)*	Sep 2021
CONTRIBUTED CONFERENCE TALKS	Extreme Solar Systems V (*Christchurch, New Zealand*)	March 2024
	AAS General Meeting #243 (*New Orleans, LA*)	Jan 2024
	AAS DDA Meeting #54 (*East Lansing, MI*)	May 2023
	AAS General Meeting #241 (*Seattle, WA*)	Jan 2023
	AAS General Meeting #240 (*Pasadena, CA*)	June 2022
	Exoplanets IV *(Las Vegas, NV)*	May 2022
	AAS DDA Meeting #53 *(New York, NY)*	April 2022
	Bay Area Exoplanets #28 *(virtual)*	Sep 2021
	2021 Keck Science Meeting *(San Diego, CA)*	Sep 2021
	TESS Science Conference II *(virtual)*	Aug 2021
	AAS DDA Meeting #52 *(virtual)*	May 2021

	AAS General Meeting #237 *(virtual)*	Jan 2021
	DPS 52 Conference *(virtual)*	Oct 2020
	Europlanet Science Congress (EPSC) 2020 *(virtual)*	Sep 2020
	AAS DDA Meeting #51 *(virtual)*	Aug 2020
	Binary Asteroids V *(Fort Collins, CO)*	Sep 2019
	Extreme Solar Systems IV *(Reykjavík, Iceland)*	Aug 2019
	Great Barriers in Planet Formation Disc-ussion *(Melbourne, Australia)*	July 2019
	Emerging Researchers in Exoplanet Science V *(Ithaca, NY)*	June 2019
	Large Surveys with Small Telescopes *(Bamberg, Germany)*	March 2019
	Boston Area Exoplanets #5 *(Boston, MA)*	Jan 2019
	AAS General Meeting #233 *(Seattle, WA)*	Jan 2019
OTHER INVITED RESEARCH PRESENTATIONS	Chen Research Group Meeting (Florida Institute of Technology)	July 2023
	Virtual Solar System Minor Bodies Journal Club Paper: *Exploring Trans-Neptunian Space with TESS: A Targeted Search for Planet Nine and Distant TNOs in the Galactic Plane* (Rice & Laughlin 2020)	Nov 2020
	Princeton Institute for Advanced Study Astro-Coffee Paper: *Exploring Trans-Neptunian Space with TESS: A Targeted Search for Planet Nine and Distant TNOs in the Galactic Plane* (Rice & Laughlin 2020)	Nov 2020
RESEARCH POSTERS	Exoplanets III *(virtual)*	July 2020
	Asia Oceania Geosciences Society Meeting 2019 *(Singapore)*	July 2019
	Great Barriers in Planet Formation *(Palm Cove, Australia)*	July 2019
	2018 International HPC Summer School *(Ostrava, Czech Republic)*	July 2018
	Exoplanets II *(Cambridge, UK)*	July 2018
	Emerging Researchers in Exoplanet Science IV *(State College, PA)*	July 2018
	AAS General Meeting #231 *(National Harbor, MD)*	Jan 2018
	2017 BPURS Poster Presentation *(Berkeley, CA)*	March 2017
	AAS General Meeting #229 *(Grapevine, TX)*	Jan 2017
	Conference for Undergraduate Women in Physics *(Los Angeles, CA)*	Jan 2017
	DPS 48 / EPSC 11 Conference *(Pasadena, CA)*	Oct 2016
	Exoplanets I *(Davos, Switzerland)*	July 2016
	UC Berkeley Undergrad. Astr. Research Showcase *(Berkeley, CA)*	April 2016
	2016 BPURS Poster Presentation *(Berkeley, CA)*	March 2016
	NASA GSFC Poster Session *(Greenbelt, Maryland)*	July 2015
INVITED PANELS	Breaking News of Life Beyond KSJ Workshop, Exoplanets Panel	April 2025
	TESS SciCon III: Exoplanet Demographics & Mission Synergies Panel	July 2024
	Intrepid Museum Inspiration Academy Summer Institute – STEM Panel	July 2024
	Yale McDougal Graduate Teaching Fellows Tenure-Track Career Panel	April 2024
	Women's Forum USA: Women's Ladder to Success in STEM	March 2023
	NSF A&A Postdoctoral Fellows Symposium: Mentoring Students Panel	Jan 2023
	P.E.O. Panel Discussion: Today's Women, Today's Challenges	April 2022
	Yale 3-Minute Thesis Competition: How to Present Engagingly	Jan 2022
	Yale Young Global Scholars: Womxn in STEM	July 2021
	Yale Astronomy Summer Undergraduate Program: Graduate School Panel	July 2020
	Wellesley College: Graduate School Panel	May 2020
	Yale Graduate Writing Lab: Writing a Prospectus in the Sciences	Feb 2020
	Yale SACNAS/STARS II: Applying to Graduate School	Oct 2019
AWARDED TELESCOPE TIME	JWST (NIRSpec) – 59.6 hours (CoI)	JWST Cycle 4
	Keck Observatory (KPF) – 10 nights (PI), 3 nights (CoI)	IfA 2023A, Yale 2023B-

Keck Observatory (HIRES) – 10 nights (PI), 8 nights (CoI)	Yale 2019B-2024A
CTIO (Blanco/DECam) – 3 nights (CoI)	NOIRLab 2024A
JWST (NIRCam) – 7.42 hours (CoI)	JWST Cycle 2
Magellan Observatory (PFS) – 5 nights (PI)	MIT 2022B-2023B
Palomar Observatory (WaSP) – 9 nights (PI)	Yale 2023B, 2024B
Gemini Observatory (Subaru) – 1 night (CoI)	NOIRLab 2023B
Perkins Telescope Observatory – 4 nights (CoI)	FCAD 2023B
WIYN Observatory (NEID) - 2 nights (PI)	NNExplore 2023A
Lick Observatory (Nickel) – 1 night (CoI) UCSC	2021A

OBSERVING EXPERIENCE

- Lowell Discovery Telescope (4.3m), EXPRES - Lowell Observatory, Arizona: 1 night
- Keck I (10 m), KPF - W.M. Keck Observatory, Hawaii: 5 nights
- Hale Telescope (5.1 m), WaSP - Palomar Observatory, California: 5 nights
- Magellan II (6.5 m), PFS - Las Campanas Observatory, Chile: 8 nights
- Keck I (10 m), HIRES - W.M. Keck Observatory, Hawaii: 55 nights
- Nickel Telescope (1 m) - Lick Observatory, California: 1 night
- Leuschner Telescope (30 inch) - Leuschner Observatory, California: 1 night

TEACHING APPOINTMENTS

ASTR 575/375, Yale University (Instructor of record) Spring 2025
⇒ *Exoplanets*; graduate-level overview of the physics of planet formation and evolution. Course fully redesigned from previous version.

ASTR 050, Yale University (Instructor of record) Spring 2024
⇒ *The Ethics of Space Exploration*; newly designed freshman seminar examining the ethical implications of space exploration, aerospace endeavors, and astronomical research.

ASTR 255/PHYS 295, Yale University (Instructor of record) Fall 2023, 2024
⇒ *Research Methods in Astrophysics*; designed for astronomy and astrophysics majors. Provides an overview of instrumentation, spectroscopy, photometry, radio astronomy, and relevant tools in Python.

Yale Young Global Scholars (Instructor of record) Summer 2022, Summer 2021
⇒ Program for high school students to explore university-level topics. Served as the instructor of record for custom-designed astrophysics seminars as part of the Innovations in Science & Technology track. Led discussions, simulations, and mentoring groups.

ASTR 105, Yale University (Graduate Teaching Fellow) Spring 2018, Fall 2018
⇒ Introductory order-of-magnitude class, led by Prof. Greg Laughlin.

ASTR 130, Yale University (Graduate Teaching Fellow) Fall 2017
⇒ Introductory exoplanets/astrobiology class, led by Prof. Debra Fischer.

ASTR 120, UC Berkeley (Undergraduate Student Instructor) Fall 2016
⇒ Upper-division optical and infrared astronomy laboratory, led by Dr. Gaspard Duchêne.

ScoreBeyond Tutor 2016-2018
⇒ SAT/ACT tutoring with *ScoreBeyond*; developed lesson plans and guided students through problems and test-taking skills. 600+ tutoring hours completed.

PEDAGOGY SEMINARS

Yale Disability Pedagogy and Accessibility Seminar 2024-2025
Participant in the Yale Disability Pedagogy and Accessibility Seminar for faculty members across the university.

Yale Equity-Minded Teaching Seminar 2023-2024
Competitively selected for participation in the inaugural Yale Equity-Minded Teaching Seminar for faculty members across the university, as the sole representative from the physical sciences.

INVITED CLASSROOM/ WORKSHOP LECTURES

Yale University (*New Haven, CT*) Nov 2024
Course: *PHYS/ASTR 040, Expanding Ideas of Space and Time: Relativity, Cosmology, and the Universe (undergraduate level)*

Lecture: *Exoplanets in Context: How "Rare" is the Solar System?*

Yale Young Global Scholars (YYGS) *(New Haven, CT)* 2024
Lecture: *Dynamical Demographics of Planetary Systems (high school level)*

Yale Astronomy and Space Science Explorers (YASSE) *(New Haven, CT)* June 2024
Lecture: *Frontiers in Exoplanetary System Studies (middle school level)*

Yale Summer Program in Astrophysics (YSPA) *(New Haven, CT)* July 2023, 2024
Lecture: *Frontiers in Exoplanetary System Studies (high school level)*

Lake Como School of Advanced Studies *(Como, Italy)* June 2023
Worshop: *Brave New Worlds II - Understanding the Planets of Other Stars (graduate level)*
Lecture Series: *Orbital Architectures of Planetary Systems*

Williams College Winter Study *(Williamstown, MA)* Jan 2023, 2024
Course: *Exoplanets and the Search for Life (undergraduate level)*
Lecture: *Exoplanet Orbits: Implications for Habitability*

Ohio State University *(virtual)* Sep 2022
Course: *ASTRON 2895, Topics in Astrophysics (undergraduate level)*
Lecture: *An Overview of the Planet Nine Hypothesis*

SELECTED OUTREACH

Smithsonian Journeys Expert 2024-
Accompanied the 2024 Astronomy & Nature in the Texas Hill Country Solar Eclipse Tour; delivered two 1-hour talks and participated on an eclipse panel as part of the Smithsonian Journeys program. Planned participation in the 2026 Solar Eclipse Over Spain Tour.

Astronomy as a Field: A Guide for Aspiring Astrophysicists – Co-Author Dec 2023
Guide for women and girls interested in astronomy, developed as part of the SIRIUS B VERGE program to support aspiring astronomers from underrepresented backgrounds.

Astronomy on Tap New Haven - Head Coordinator 2018-2021
Primary organizer of the New Haven branch of Astronomy on Tap, an outreach program designed to engage the local community by conveying current astronomy research through informal talks.

Yale Girls' Science Investigations - Regular Volunteer 2017-2021
Program designed to empower local middle schools girls to develop skills for success in STEM through hands-on science experiments. Events ∼4x/year.

Open Labs at Yale - Regular Volunteer 2017-2021
Outreach group that organizes "Science Cafés", virtual *Exploring Science* evenings, and other educational events geared towards local middle school students.

Leitner Family Observatory and Planetarium - Presenter 2017-2020
Regular presenter for weekly public planetarium shows at Yale's campus planetarium, the LFOP.

PODCASTS

Exocast Podcast - Guest Speaker July 2024
Planned release in 2025.

Cool Worlds Podcast - Guest Speaker Nov 2023

Astro[sound]bites Podcast – Co-Founder/Co-Host 2019-2022
The official audio spinoff of the Astrobites blog. Graduate students discuss recently published astronomy research results and life in academia. Co-host on 56 episodes (Episodes 0 through 55).

INVITED OUTREACH & SERVICE TALKS

SIRIUS B VERGE Exoplanets Guest Lecture (1 hr) Jan 2024
Mexborough & Swinton Astronomical Society Lecture Series (1 hr) Jan 2024
Pathways to Science New Student Orientation (5 min; 900+ audience) Sep 2023
International School of Boston Guest Lecture (1 hr) April 2023

	The Garden: "The Bright Night Sky" series (50 min)	Oct 2022
	Westchester Amateur Astronomers Lecture Series (1 hr)	Oct 2022
	Yale/NASA Symposium: Astrobiology & Human Exploration (20 min)	April 2022
	Yale Scientific Magazine Careers Talk (30 min)	April 2022
	Bridgeport Public Schools Guest Lecture (1 hr)	March 2022
	Ask-An-Astronomer: Planet Nine Edition (1 hr)	Dec 2021
	Leitner Family Observatory & Planetarium Guest Lecture (1 hr)	May 2021
	Indiana University Astronomy Club (1 hr)	Feb 2021
	Astronomy on Tap State College (30 min)	Jan 2021
	Royal High School Visiting Speaker (30 min)	Dec 2020
	Lakeside School Women in STEM Lecture Series (20 min)	Nov 2020
	Las Cruces Public Schools Scientist Highlight (1 hr)	Oct 2020
	Yale Exploring Science (30 min)	June 2020
	MathCounts Girls' Science Day (30 min; keynote speaker)	Dec 2018
	Yale Open Labs (30 min)	Nov 2018
	Astronomy on Tap New Haven (30 min)	Sep 2018

EDUCATION & OUTREACH CONFERENCE CONTRIBUTIONS

Workshop for Astronomy Beyond the Common Senses (*online*) — Aug 2022
Conference Proceedings: Astronomy for Accessibility and Inclusion. *Astro[sound]bites: An audio resource for informal education* (Saunders, W.R., **Rice, M.**, & Gagliano, A.)

AAS General Meeting #237 (*online*) — Jan 2021
iPoster Plus (poster + oral presentation). *Astro[sound]bites: A new audio resource for conveying recent astronomy research*

DPS 52 Conference (*online*) — Oct 2020
Oral presentation. *Astro[sound]bites: A new audio resource for conveying recent astronomy research*

EDUCATION & OUTREACH CERTIFICATIONS

- Yale Faculty Teaching Academy (program completion) — 2024
- Kavli Foundation SciComm Essentials Certificate — 2022
- Yale Poorvu Center Public Communication Certificate — 2021
- Yale Certificate of College Teaching Preparation (CCTP) — 2018

PROFESSIONAL SERVICE: REVIEWS (EXTERNAL)

Reviewer, NASA Astrophysics: Pioneers Program
Reviewer, NSF Astronomy and Astrophysics Research Grants (AAG)
Reviewer, Nat. Fund for Sci. and Tech. Dev., Chile (FONDECYT)
Reviewer, NASA Hubble Fellowship Program
Reviewer, NSF A&A Postdoctoral Fellowship (AAPF) Program
Reviewer, NASA Postdoctoral Program (2 cycles)
Reviewer, RCSA Cottrell Scholar SEED Awards
Panel Chair, NASA FINESST Program (Planetary Science Division)
Reviewer, NASA FINESST Program (Astrophysics Division)
Exoplanets and Disks Discussion Panelist, JWST
Reviewer, NSF NOIRLab Time Allocation Committee (2 cycles)
External Reviewer, Canadian Time Allocation Committee (CanTAC)
Judge, AAS Chambliss Poster Competition
Executive Secretary, NASA Exoplanets Research Program (XRP)

PROFESSIONAL SERVICE: REVIEWS (INTERNAL)

Reviewer, Yale Astronomy Time Allocation Committee (4 cycles)
Reviewer, MIT Astrophysics Time Allocation Committee (2 cycles)
Reviewer, Yale Undergraduate Admissions Committee
Reviewer, Yale Center for Astronomy & Astrophysics Postdoctoral Fellowship (2 cycles)
Reviewer, Yale Marshall/Mitchell/Rhodes Scholarship Committee
Reviewer, Yale Marshall/Rhodes Scholarship Committee

Reviewer, Yale Undergraduate Research Journal (YURJ)

PROFESSIONAL SERVICE: JOURNALS

Review Editor, *Frontiers in Astronomy and Space Sciences - Exoplanets* 2024-
Editorial Board Member, *Nature Scientific Reports* 2022-
Reviewer for A&A, AJ, ApJL, ApJS, Icarus, MNRAS, Nat. Astron., P&SS, PASP, PNAS, PSJ 2021-
Guest Editor, *Nature Scientific Reports* Collection on Exoplanets 2022-2023

CONFERENCE LEADERSHIP

New York Area Exoplanets Meeting – SOC Co-Chair 2023-
Co-developed meeting concept with Jane Huang (Columbia); first iteration occurred May 2024.

From Transits to Trends: The Next Decade of Long-Period Exoplanets – SOC Member 2024-2025

2024 Keck Science Meeting – SOC Member 2024

TESS Science Conference III – SOC Member 2024

Building the AstroCodEx – Hack Day Conference Co-Organizer 2024
New meeting to build effective activities to teach astronomy research methods in the classroom.

DDA Special Session – Co-Organizer (joint with Songhu Wang) 2024
Session title: *On the Formation and Dynamical Evolution of Hot Jupiters*

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science (AAAS) 2023-
American Astronomical Society (AAS; divisions DPS and DDA) 2016-
Yale Women in Physics (WiP) 2019-2022
American Physical Society (APS) 2016-2017
UC Berkeley Society of Women in the Physical Sciences (SWPS) 2014-2017
UC Berkeley Society of Physics Students (SPS) 2014-2017
UC Berkeley Regents' and Chancellor's Scholars Association (RCSA) 2013-2017

SELECTED MEDIA COVERAGE

***CNN Science* – Planet Nine highlight (2024):** Interviewed and quoted as part of an in-depth overview of the search for Planet Nine in the outer solar system.

PBS NOVA – Solar System: Wandering Worlds (2024): Served as a scientific expert speaking about sub-planet-sized bodies in the solar system.

***Nature Masterclasses* Writing a Research Paper: 2nd Edition (2024):** Participated as a featured expert offering insights throughout a five-module online course.

TESS Shift-Stacking Survey (Rice & Laughlin 2020) featured in Scientific American, National Geographic, Space.com, EarthSky, Inverse, Scientias.nl, Yale News, DPS 2020 press conference.

Interstellar Object Origins (Rice & Laughlin 2019b) featured in New York Times, Washington Post, Discover Magazine, PBS Nova, Nature, CNN, Scientific American, Yale News.

PUBLICATIONS (*group member)

First–author:

10. **Rice, M.**, *Gerbig, K., & Vanderburg, A. 2024 *AJ* 167, 126. *The Orbital Geometries and Stellar Obliquities of Exoplanet-Hosting Multi-Star Systems*
9. **Rice, M.**, Wang, X.-Y., Wang, S., Shporer, A., et al. 2023 *AJ* 166, 266. *Evidence for Low-Level Dynamical Excitation in Near-Resonant Exoplanet Systems*
8. **Rice, M.**, Wang, S., *Gerbig, K., Wang, X.-Y. et al. 2023 *AJ* 165, 65. *The Orbital Architecture of Qatar-6: A Fully Aligned 3-Body System?*

7. **Rice, M.**, Wang, S., Wang, X.-Y., Stefansson, G., et al. 2022 *AJ* 164, 104. *A Tendency Toward Alignment in Single-Star Warm-Jupiter Systems*
6. **Rice, M.**, Wang, S., & Laughlin, G. 2022 *ApJL* 926, L17. *Origins of Hot Jupiters from the Stellar Obliquity Distribution*
5. **Rice, M.**, Wang, S., Howard, A., Isaacson, H., et al. 2021 *AJ* 162, 182. *SOLES I: The Spin-Orbit Alignment of K2-140 b*
4. **Rice, M.** & Laughlin, G. 2020 *PSJ* 1, 81. *Exploring Trans-Neptunian Space with TESS: A Targeted Search for Planet Nine and Distant TNOs in the Galactic Plane*
3. **Rice, M.** & Brewer, J. 2020 *ApJ* 898, 119. *Stellar Characterization of Keck HIRES Spectra with The Cannon*
2. **Rice, M.** & Laughlin, G. 2019 *ApJL* 844, L22. *Hidden Planets: Implications from 'Oumuamua and DSHARP*
1. **Rice, M.** & Laughlin, G. 2019 *AJ* 158, 19. *The Case for a Large-Scale Occultation Network*

Research group-/Advisee-led:

10. *Cassese, B., **Rice, M.**, & *Lu, T. 2025 (*in review*).
9. *Liu, Y., *Lu, T., & **Rice, M.** 2025 (*in review*).
8. *Hand, J.E., *Gerbig, K., & **Rice, M.** 2025 (*in press, ApJL*).*The Case for Edge-On Binaries: An Avenue Toward Comparative Exoplanet Demographics*
7. *Lu, T., An, Q., Li, G., et al. (incl **Rice, M.**) 2025 *ApJ* 979, 218. *Planet-Planet Scattering and von Zeipel-Lidov-Kozai Migration – The Dynamical History of HAT-P-11*
6. *Cassese, B., Vega, J., *Lu, T., **Rice, M.**, Poddar, A., & Kipping, D. 2024 *JOSS* 9, 6972. *squishyplanet: modeling transits of non-spherical exoplanets in JAX*
5. *Ferreira, T., **Rice, M.**, Wang, X.-Y., & Wang, S. 2024 *AJ* 168, 145. *SOLES XII. The Aligned Orbit of TOI-2533 b, a Transiting Brown Dwarf Orbiting an F8-type Star*
4. *Gerbig, K., **Rice, M.**, Zanazzi, J.J., Christian, S., & Vanderburg, A. 2024 *ApJ* 972, 161. *Aligning Planet-Hosting Binaries via Dissipative Precession in Circumstellar Disks*
3. *Hu, Q., **Rice, M.**, Wang, X.-Y., et al. 2024 *AJ* 167, 175. *The PFS view of TOI-677 b: A Spin-Orbit Aligned Warm Jupiter in a Dynamically Hot System*
2. *Gussman, J. & **Rice, M.** 2024 *ApJL* 961, L24. *Inferring Stellar Parameters from Iodine-Imprinted Keck/HIRES Spectra with Machine Learning*
1. *Wright, J., **Rice, M.**, Wang, X.-Y., et al. 2023 *AJ* 166, 217. *SOLES VII: The Spin-Orbit Alignment of WASP-106 b, a Warm Jupiter Along the Kraft Break*

Other second– or third–author:

11. Rusznak, J., Wang, X.-Y., **Rice, M.**, & Wang, S. 2025 (*in press, ApJL*). *From Misaligned Sub-Saturns to Aligned Brown Dwarfs: The Highest $M_{\rm p}/M_*$ Systems Exhibit Low Obliquities, Even around Hot Stars*
10. Radzom, B., Dong, J., **Rice, M.**, et al. 2025 *AJ* 169, 189. *Evidence for Primordial Alignment II: Insights from Stellar Obliquity Measurements For Hot Jupiters in Compact Multi-planet Systems*

9. Wang, X.-Y., **Rice, M.**, Wang, S., et al. 2024 *ApJL* 973, L21. *Single-Star Warm-Jupiter Systems Tend to Be Aligned, Even Around Hot Stellar Hosts: No $T_{\rm eff}$ -λ Dependency*
8. Radzom, B., Dong, J., **Rice, M.**, et al. 2024 *AJ* 168, 116. *Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact Sub-Saturn Systems*
7. Lubin, J., Wang, X.-Y., **Rice, M.**, et al. 2023 *ApJL* 959, L5. *TOI-1670 c, a 40-day Orbital Period Warm Jupiter in a Compact System, is Well-Aligned*
6. Dong, J., Wang, S., **Rice, M.**, et al. 2023 *ApJL* 951, L29. *TOI-1859b: A 64-Day Warm Jupiter on an Eccentric, Misaligned Orbit*
5. Hixenbaugh, K., Wang, X.-Y., **Rice, M.**, & Wang, S. 2023 *ApJL* 949, L35. *The Spin-Orbit Misalignment of TOI-1842b: The First Measurement of the Rossiter-McLaughlin Effect for a Warm Sub-Saturn around a Massive Star*
4. Wu, D.-H., **Rice, M.**, & Wang, S. 2023 *AJ* 165, 171. *Evidence for Hidden Nearby Companions to Hot Jupiters*
3. Wang, X.-Y., **Rice, M.**, Wang, S., et al. 2022 *ApJL* 926, L8. *The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a Nearby Warm Jupiter Companion, from NEID and HIRES*
2. Duchêne, G., **Rice, M.**, Hom, J., et al. 2020 *AJ* 159, 251. *The Gemini Planet Imager View of the HD 32297 Debris Disk*
1. Edwards, B., **Rice, M.**, Zingales, T., Tessenyi, M., Waldmann, I., Tinetti, G. et al. 2018 *Experimental Astronomy* 47, 29. *Exoplanet Spectroscopy and Photometry with the Twinkle Space Telescope*

Other co-author:

60. Bardalez Gagliuffi, D.C., Balmer, W.O., Pueyo, L., et al. (incl **Rice, M.**) 2025 (*in review*).
59. Sagynbayeva, S., Abbas, A., Kane, S.R., et al. (incl **Rice, M.**) 2025 (*in review*).
58. Grouffal, S., Santerne, A., Bourrier, V., et al. (incl **Rice, M.**) 2025 (*in review*).
57. Blunt, S., Nielsen, E., Newton, E., et al. (incl **Rice, M.**) 2025 (*in review*).
56. Radzom, B., Wang, S., Pu, B., **Rice, M.** & Wu, D.-H. 2025 (*in review*).
55. Harada, C.K., Dressing, C.D., Kane, S.R., et al. (incl **Rice, M.**) 2025 (*in review, AAS Journals*). *SPORES-HWO. II. Limits on Planetary Companions of Future High-contrast Imaging Targets from >20 Years of HIRES and HARPS Radial Velocities*
54. Christian, S., Vanderburg, A., Becker, J., et al. (incl **Rice, M.**) 2025 (*in press, AJ*). *Wide Binary Orbits are Preferentially Aligned with the Orbits of Small Planets, but Probably Not Hot Jupiters*
53. Howard, A.W., Sinukoff, E., Blunt, S., et al. (incl **Rice, M.**) 2025 (*in press, ApJS*). *Planet Masses, Radii, and Orbits from NASA's K2 Mission*
52. Tala Pinto, M., Jordan, A., Acuna, L., et al. (incl **Rice, M.**) 2025 *A&A* 694, A268. *Three Warm Jupiters orbiting TOI-6628, TOI-3837, TOI-5027 and one sub-Saturn orbiting TOI-2328*
51. Faridani, T.H., Naoz, S., Li, G., **Rice, M.**, & Inunza, N. 2025 *ApJ* 978, 18. *More Likely Than You Think: Inclination-Driving Secular Resonances are Common in Known Exoplanet Systems*

50. Xiao, G.-Y., Feng, F., Shectman, S.A., et al. (incl. **Rice, M.**) 2024 *MNRAS* 534, 2858. *HD 222237 b: a long period super-Jupiter around a nearby star revealed by radial-velocity and Hipparcos-Gaia astrometry*

49. Isaacson, H., Howard, A.W., Fulton, B., et al. (incl **Rice, M.**) 2024 *ApJS* 274, 35. *The California Legacy Survey. V. Chromospheric Activity Cycles in Main-sequence Stars*

48. Glauser, A.M., Quanz, S.P., Hansen, J., et al. (incl **Rice, M.**) 2024 *Proc. SPIE* 13095, 130951D. *The Large Interferometer For Exoplanets (LIFE): a space mission for mid-infrared nulling interferometry*

47. Pidhorodetska, D., Kane, S.R., Gilbert, E.A., et al. (incl **Rice, M.**) 2024 *AJ* 168, 135. *The TESS-Keck Survey XXII. A sub-Neptune Orbiting TOI-1437*

46. Alqasim, A., Grieves, N., Rosario, N., et al. (incl **Rice, M.**) 2024 *MNRAS* 533, 1. *TOI-757 b: An Eccentric Transiting Mini-Neptune on a 17.5-d Orbit*

45. Yee, S.W., Petigura, E.A., Isaacson, H., et al. (incl **Rice, M.**) 2024 *RNAAS* 8, 187. *Additional Doppler Monitoring Corroborates HAT-P-11 c as a Planet*

44. Saunders, N., Grunblatt, S.K., Chontos, A., et al. (incl **Rice, M.**) 2024 *AJ* 168, 81. *TESS Giants Transiting Giants VI: Newly Discovered Hot Jupiters Provide Evidence for Efficient Obliquity Damping After the Main Sequence*

43. Battley, M.P., Collins, K.A., Ulmer-Moll, S., et al. (incl. **Rice, M.**) 2024 *A&A* 686, A230. *NGTS-30 b/TOI-4862 b: An ∼1 Gyr Old 98-day Transiting Warm Jupiter*

42. Grunblatt, S.K., Saunders, N., Huber, D., et al. (incl. **Rice, M.**) 2024 *AJ* 168, 1. *TESS Giants Transiting Giants. IV. A Low-density Hot Neptune Orbiting a Red Giant Star*

41. Polanski, A.S., Lubin, J., Beard, C., et al. (incl. **Rice, M.**) 2024 *ApJS* 272, 32. *The TESS-Keck Survey XX: 15 New TESS Planets and a Uniform RV Analysis of all Survey Targets*

40. Lange, S., Akana Murphy, J.M., Batalha, N.M., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 282. *The TESS-Keck Survey. VII. A Superdense Sub-Neptune Orbiting TOI-1824*

39. Hord, B.J., Kempton, E. M.-R., Mikal-Evans, T., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 233. *Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST*

38. Desai, A., Turtelboom, E., Dressing, C., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 194. *The TESS-Keck Survey. XVIII. A Sub-Neptune and Spurious Long-Period Signal in the TOI-1751 System*

37. Thomas, C.A., Weiss, L.M., Isaacson, H., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 160. *A Tale of Two Peas-In-A-Pod: The Kepler-323 and Kepler-104 Systems*

36. Rubenzahl, R.A., Dai, F., Howard, A., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 153. *The TESS-Keck Survey. XII. A Dense 1.8 $R_\oplus$ Ultra-Short-Period Planet Possibly Clinging to a High-Mean-Molecular-Weight Atmosphere After the First Gigayear*

35. Hom, J., Patience, J., Chen, C.H., et al. (incl. **Rice, M.**) 2024 *MNRAS* 528, 6959. *A Uniform Analysis of Debris Disks with the Gemini Planet Imager II: Constraints on Dust Density Distribution Using Empirically-Informed Scattering Phase Functions*

34. Dalba, P.A., Kane, S.R., Isaacson, H., et al. (incl. **Rice, M.**) 2024 *ApJS* 271, 16. *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. IV. Long-term Doppler Spectroscopy for 11 Stars Thought to Host Cool Giant Exoplanets*

33. Crotts, K.A., Matthews, B.C., Duchêne, G., et al. (incl. **Rice, M.**) 2024 *ApJ* 961, 245. *A Uniform Analysis of Debris Disks with the Gemini Planet Imager I: An Empirical Search for Perturbations from Planetary Companions in Polarized Light Images*

32. Householder, A., Weiss, L., Owen, J.E., et al. (incl. **Rice, M.**) 2024 *AJ* 167, 84. *Investigating the Atmospheric Mass Loss of the Kepler-105 Planets Straddling the Radius Gap*

31. Beard, C., Robertson, P., Dai, F., et al. (incl **Rice, M.**) 2024 *AJ* 167, 70. *The TESS-Keck Survey. XVII. Precise Mass Measurements in a Young, High-Multiplicity Transiting Planet System using Radial Velocities and Transit Timing Variations*

30. Thompson, W., Lawrence, J., Blakely, D., et al. (incl. **Rice, M.**) 2023 *AJ* 166, 164. *Octofitter: Fast, Flexible, and Accurate Orbit Modelling to Detect Exoplanets*

29. Akana Murphy, J.M., Batalha, N.M., Scarsdale, N., et al. (incl. **Rice, M.**) 2023 *AJ* 166, 153. *The TESS-Keck Survey. XVI. Mass Measurements for 12 Planets in Eight Systems*

28. MacDougall, M., Petigura, E., Gilbert, G., et al. (incl. **Rice, M.**) 2023 *AJ* 166, 33. *The TESS-Keck Survey. XV. Precise Properties of 108 TESS Planets and Their Host Stars*

27. Hon, M., Huber, D., Rui, N.Z., et al. (incl. **Rice, M.**) 2023 *Nature* 618, 917. *A Close–in Jovian Planet Orbiting a Helium-Burning Red Giant Star*

26. Zink, J.K., Hardegree-Ullman, K.H., Christiansen, J.L., et al. (incl. **Rice, M.**) 2023 *AJ* 165, 262. *Scaling K2. VI. Reduced Small Planet Occurrence in High Galactic Amplitude Stars*

25. Zhang, S.Y., Duchêne, G., Ansdell, M., et al. (incl. **Rice, M.**) 2023 *AJ* 165, 219. *Testing the Interaction Between a Substellar Companion and a Debris Disk in the HR 2562 System*

24. Brinkman, C.L., Weiss, L.M., Dai, F., et al. (incl. **Rice, M.**) 2023 *AJ* 165, 88. *TOI-561 b: A Low Density Ultra-Short Period "Rocky" Planet around a Metal-Poor Star*

23. Grunblatt, S.K., Saunders, N., Hattori, S., et al. (incl. **Rice, M.**) 2023 *AJ* 165, 44. *TESS Giants Transiting Giants III: An Eccentric Warm Jupiter Supports a Period-Eccentricity Relation for Giant Planets Transiting Evolved Stars*

22. Yang, Y., Yan, H., Wang, L, et al. (incl. **Rice, M.**) 2022 *ApJ* 939, 18. *Spectropolarimetry of the Thermonuclear Supernova SN 2021rhu - High Calcium Polarization 79 Days After Peak Luminosity*

21. MacDougall, M., Petigura, E., Fetherolf, T., et al. (incl. **Rice, M.**) 2022 *AJ* 164, 97. *The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-Mass Outer Companion around TOI-1272*

20. Polanski, A.S., Crossfield, I.J.M., Howard, A.W., Isaacson, H., & **Rice, M.** 2022 *RNAAS* 6, 155. *Chemical Abundances for 25 JWST Exoplanet Host Stars with KeckSpec*

19. LIFE Collaboration et al. (incl. **Rice, M.**) 2022 *A&A* 664, A21. *Large Interferometer for Exoplanets (LIFE): I. Improved Exoplanet Detection Yield Estimates for a Large Mid-Infrared Space-Interferometer Mission*

18. Turtelboom, E.V., Weiss, L.M., Dressing, C.D., et al. (incl. **Rice, M.**) 2022 *AJ* 163, 293. *The TESS-Keck Survey. XI. Mass Measurements for Four Transiting sub-Neptunes orbiting K dwarf TOI 1246*

17. Johnson, M.C., David, T.J., Petigura, E.K., et al. (incl. **Rice, M.**) 2022 *AJ* 163, 247. *An Aligned Orbit for the Young Planet V1298 Tau b*

16. Worku, K., Wang, S., Burt, J., **Rice, M.**, et al. 2022 *AJ* 163, 158. *Revisiting the Full Sets of Orbital Parameters for the XO-3 System: No Evidence for Temporal Variation of the Spin-Orbit Angle*

15. Grunblatt, S.K., Saunders, N., Sun, M., et al. (incl. **Rice, M.**) 2022 *AJ* 163, 120. *TESS Giants Transiting Giants (GTG) II: The Hottest Jupiters Orbiting Evolved Stars*

14. Lubin, J., Van Zandt, J., Holcomb, R., et al. (incl. **Rice, M.**) 2022 *AJ* 163, 101. *TESS-Keck Survey IX: Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian Plus a Distant Sub-Stellar Companion*

13. Dalba, P.A., Kane, S.R., Dragomir, D., et al. (incl. **Rice, M.**) 2022 *AJ* 163, 61. *The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261-day Orbit with the Automated Planet Finder Telescope*

12. MacDougall, M.G., Petigura, E.A., Angelo, I., et al. (incl. **Rice, M.**) 2021 *AJ* 162, 265. *The TESS-Keck Survey. VI. Two Eccentric sub-Neptunes Orbiting HIP-97166*

11. Llop-Sayson, J., Wang, J., Ruffio, J.-B., et al. (incl. **Rice, M.**) 2021 *AJ* 162, 181. *Constraining the Orbit of ϵ Eridani b with Radial Velocities, Hipparcos IAD-Gaia DR2 Astrometry, and Multi-epoch Vortex Coronagraphy Upper Limits*

10. Dai, F., Howard, A.W., Batalha, N.M., et al. (incl. **Rice, M.**) 2021 *AJ* 162, 62. *TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes*

9. Wang, S., Winn, J.N., Addison, B.C., Dai, F., **Rice, M.**, et al. 2021 *AJ* 162, 50. *The Aligned Orbit of the Eccentric Warm Jupiter K2-232 b*

8. Wang, X.-Y., Wang, Y.-H., Wang, S., Wu, Z.-Y., **Rice, M.**, et al. 2021 *ApJS* 255, 15. *Transiting Exoplanet Monitoring Project (TEMP). VI. The Homogeneous Refinement of System Parameters for 39 Transiting Hot Jupiters with 127 New Light Curves*

7. Crotts, K., Matthews, B., Esposito, T., et al. (incl. **Rice, M.**) 2021 *ApJ* 915, 58. *A Deep Polarimetric Study of the Asymmetrical Debris Disk HD 106906*

6. Kosiarek, M., Crossfield, I., Berardo, D., et al. (incl. **Rice, M.**) 2021 *AJ* 161, 47. *Physical Parameters of the Multi-Planet Systems HD 106315 and GJ 9827*

5. Esposito, T., Kalas, P., Fitzgerald, M.P., et al. (incl. **Rice, M.**) 2020 *AJ* 160, 24. *Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign*

4. Blunt, S., Wang, J., Angelo, I., Ngo, H., et al. (incl. **Rice, M.**) 2020 *AJ* 159, 89. *orbitize!: A Comprehensive Orbit-Fitting Software Package for the High-Contrast Imaging Community*

3. Nixon, C.A., Ansty, T.M., Lombardo, N.A., Bjoraker, G.L., Achterberg, R.K., Annex, A., **Rice, M.**, et al. 2019 *ApJS* 244, 14. *Cassini Composite Infrared Spectrometer (CIRS) Observations of Titan 2004-2017*

2. Ren, B., Choquet, É., Perrin, M.D., Duchêne, G., Debes, J.H., Pueyo, L., **Rice, M.** et. al. 2019 *ApJ* 882, 64. *An Exo-Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light*

1. Esposito, T.M., Duchêne, G., Kalas, P., **Rice, M.**, Choquet, É., Ren, B., Perrin, M.D. et al. 2018 *AJ* 156, 2. *Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS*