Malena Rice

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CONTACT INFORMATION	Yale Astronomy Department 52 Hillhouse Ave New Haven, CT 06511	Email: malena.rice@yale.edu Web: www.astro.yale.edu/malenarice
RESEARCH INTERESTS	Orbital architectures; outer solar system dynar system evolution; exoplanet detection and cha	
APPOINTMENTS	51 Pegasi b Postdoctoral Fellow Department of Physics, Massachusetts Institut	2022-2025 te of Technology
	NSF Graduate Research Fellow Department of Astronomy, Yale University	2017-2022
EDUCATION	 Yale University, New Haven, CT Ph.D. in Astronomy (May 2022) Dissertation: A Dynamical Synthesis of Advisor: Greg Laughlin M.S., M.Phil. in Astronomy (May 2020) 	
	University of California, Berkeley, Berkeley, Berkeley, B.A. in Physics; B.A. in Astrophysics wire Distinction in General Scholarship Honors Thesis: Debris Disk Analysis was Advisor: Gaspard Duchêne	th High Honors (May 2017)
FELLOWSHIPS & AWARDS	 51 Pegasi b Postdoctoral Fellowship (\$385k) NASA Hubble Fellowship Program - Sagan I NSF Graduate Research Fellowship (\$34k/yo P.E.O. Scholar Award (\$20k) Yale 3-Minute Thesis Competition "Best in Yale Poorvu Center Public Communication of DDA/AAS Raynor L. Duncombe Student Ro DPS Education and Outreach Grant (award Pierazzo International Student Travel Award NASA CT Space Grant Graduate Research of Sinary Asteroids 5 Workshop Travel Award Yale Certificate of College Teaching Prepara UC Berkeley Regents' and Chancellor's School UC Berkeley Leadership Award (\$2k) UC Berkeley Regents' and Chancellor's Research of Society of Physics Students (SPS) Travel Avaluate Research Services (SPS) Travel Avaluate Research Services (SPS) Academic Opportunity Fund Avaluate Research Services (SPS) Undergraduate Research Services (SPS) Underg	Fellowship (declined) ear) 2022 ear) 2017-2022 2021-2022 STEM" Award Certificate esearch Prize esearch Prize ed for astro[sound]bites) d (\$2k) Fellowship (\$8k) 2019 ction (CCTP) clarship (\$10k) 2013-2017 2016-2017, 2013-2014 earch Fellowship evard exerch Fellowship
REFEREED PUBLICATIONS	First- and second-author:	2 An II 026 I 17 Origins of Hot Junitare

PUBLICATIONS

- 9. Rice, M., Wang, S., & Laughlin, G. 2022 ApJL 926, L17. Origins of Hot Jupiters $from\ the\ Stellar\ Obliquity\ Distribution$
- 8. Wang, X.-Y., Rice, M., 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

- 7. Rice, M., Wang, S., Howard, A., Isaacson, H., Dai, F. et al. 2021 AJ 162, 182. SOLES I: The Spin-Orbit Alignment of K2-140 b
- 6. 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
- Rice, M. & Brewer, J. 2020 ApJ 898, 119. Stellar Characterization of Keck HIRES Spectra with The Cannon
- 4. Duchêne, G., **Rice, M.**, et al. 2020 AJ 159, 251. The Gemini Planet Imager View of the HD 32297 Debris Disk
- 3. Rice, M. & Laughlin, G. 2019 ApJL 844, L22. Hidden Planets: Implications from 'Oumuamua and DSHARP
- 2. Rice, M. & Laughlin, G. 2019 AJ 158, 19. The Case for a Large-Scale Occultation Network
- 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:

- 19. Turtelboom, E.V., Weiss, L.M., Dressing, C.D., et al. (incl. **Rice, M.**) 2022 (in review, AJ). The TESS-Keck Survey. XI. Mass Measurements for Four Transiting sub-Neptunes orbiting K dwarf TOI 1246
- 18. Johnson, M.C., David, T.J., Petigura, E.K., et al. (incl. **Rice, M.**) 2022 (in review, AJ). An Aligned Orbit for the Young Planet V1298 Tau b
- 17. LIFE Collaboration et al. (incl. **Rice, M.**) 2022 (in review, A&A). Large Interferometer for Exoplanets (LIFE): I. Improved Exoplanet Detection Yield Estimates for a Large Mid-Infrared Space-Interferometer Mission
- 16. Worku, K., Wang, S., Burt, J., Rice, M., et al. 2022 (in press, AJ). Revisiting the Full Sets of Orbital Parameters for the XO-3 System: No Evidence for Temporal Variation of the Spin-Orbit Angle
- Grunblatt, S.K., Saunders, N., Sun, M., et al. (incl. Rice, M.) 2022 AJ 163,
 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
- 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
- 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
- Crotts, K., Matthews, B., Esposito, T., et al. (incl. Rice, M.) 2021 ApJ 915,
 A Deep Polarimetric Study of the Asymmetrical Debris Disk HD 106906
- Kosiarek, M., Crossfield, I., Berardo, D., et al. (incl. Rice, M.) 2021 AJ 161,
 Physical Parameters of the Multi-Planet Systems HD 106315 and GJ 9827
- 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
- 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
- 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
- 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
- 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

TELESCOPE PROPOSALS

Keck Observatory (HIRES) - 2 nights awarded (PI) On the Origins of Exoplanet Spin-Orbit Misalignments Yale 2022A

Lick Observatory (Nickel) - 1 night awarded (CoI) UCSC/Lick 2021A Simultaneous Observation of a Transit of WASP-148b with Keck Spectroscopy and Nickel Photometry

Keck Observatory (HIRES) - 2 nights awarded (PI) On the Origins of Exoplanet Spin-Orbit Misalignments Yale 2021B

Keck Observatory (HIRES) - 3 nights awarded (PI) On the Origins of Exoplanet Spin-Orbit Misalignments Yale 2021A

Keck Observatory (HIRES) - 2 nights awarded (PI) Yale 2020B Non-Transiting Hot Jupiters: Hidden Companions to Known Exoplanets Top-ranked proposal by all members of the TAC

Keck Observatory (HIRES) - 2 nights awarded (CoI) Yale 2020A Non-Transiting Hot Jupiters: Hidden Companions to Known Exoplanets

Keck Observatory (HIRES) - 2 nights awarded (CoI)

Are Hot Jupiters Dynamically Hot?

Yale 2020A

Keck Observatory (HIRES) - 4 nights awarded (CoI) Yale 2019B

Non-Transiting Hot Jupiters: Hidden Companions to Known Exoplanets

Top-ranked proposal by all members of the TAC

OBSERVING EXPERIENCE

- Keck I (10 m), HIRES W.M. Keck Observatory, Hawaii: 48 nights
- Nickel Telescope (1 m) Lick Observatory, California: 1 night
- Leuschner Telescope (30 inch) Leuschner Observatory, California: 1 night

RESEARCH
ADVISING

Hanna Adamski, Yale University (undergraduate)

Jan 2021-

Project: Implications of Planet Nine for Earth's Orbital Evolution

Jude Gussman, Indiana University (undergraduate)

Sep 2020-

Project: Spectroscopic Characterization with Machine Learning: Applications to Exoplanet Radial Velocity Surveys. Manuscript in preparation.

Rachel Feng, Central Bucks High School

Jun 2021 - Sep 2021

Project: Unsupervised Learning as a Probe of Underlying Exoplanet Properties

Kaitlyn Sarkissian, Royal High School

Jun 2021 - Aug 2021

Project: Trends in the Abundances of Exoplanet Host Stars

Alexandra Cruz, Saint Pedro Poveda College (high school) Jun 2020 - Aug 2020 Project: Insights from Free-Floating Planets on the Frequency of Long-Period Giant Exoplanets

⇒ Mentored through the ATHENA by WiSTEM program to support underprivileged female high school students interested in STEM.

SEMINARS & COLLOQUIA

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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
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INVITED JOURNAL CLUB PRESENTATIONS

Virtual Solar System Minor Bodies Journal Club

Nov 2020

Paper: Exploring Trans-Neptunian Space with TESS: A Targeted Search for Planet Nine and Distant TNOs in the Galactic Plane (Rice & Laughlin 2020)

Princeton Institute for Advanced Study Astro-Coffee

Nov 2020

Paper: Exploring Trans-Neptunian Space with TESS: A Targeted Search for Planet Nine and Distant TNOs in the Galactic Plane (Rice & Laughlin 2020)

CONFERENCE	ì
RESEARCH	
TALKS	
(*INVITED)	

*Science from the TESS Extended Mission (virtual)	Feb 2022
*Twinkle and the Next Generation of Exoplanet Scientists (virtual)	Sep 2021
Bay Area Exoplanets #28 (virtual)	Sep 2021
2021 Keck Science Meeting (San Diego, CA - USA)	Sep 2021
TESS Science Conference II (virtual)	Aug 2021
AAS Division of Dynamical Astronomy Meeting #51 (virtual)	May 2021
AAS General Meeting #237 (virtual)	Jan 2021
DPS 52 Conference (virtual)	Oct 2020

	Europlanet Science Congress (EPSC) 2020 (virtual) AAS Division of Dynamical Astronomy Meeting #51 (virtual) Binary Asteroids V (Fort Collins, CO – USA) Extreme Solar Systems IV (Reykjavík, Iceland) Great Barriers in Planet Formation Disc-ussion (Melbourne, Australia) Emerging Researchers in Exoplanet Science V (Ithaca, NY – USA) Large Surveys with Small Telescopes (Bamberg, Germany) Boston Area Exoplanets #5 (Boston, MA – USA) AAS General Meeting #233 (Seattle, WA – USA)	Sep 2020 Aug 2020 Sep 2019 Aug 2019 July 2019 June 2019 March 2019 Jan 2019 Jan 2019
RESEARCH POSTERS	Exoplanets III (virtual) Asia Oceania Geosciences Society Meeting 2019 (Singapore) Great Barriers in Planet Formation (Palm Cove, Queensland - Australia) 2018 International HPC Summer School (Ostrava, Czech Republic) Exoplanets II (Cambridge, UK) Emerging Researchers in Exoplanet Science IV (State College, PA - USA) AAS General Meeting #231 (National Harbor, MD - USA) 2017 BPURS Poster Presentation (Berkeley, CA - USA) AAS General Meeting #229 (Grapevine, TX - USA) Conference for Undergraduate Women in Physics (Los Angeles, CA - USA) DPS 48 / EPSC 11 Conference (Pasadena, CA - USA) Exoplanets I (Davos, Switzerland) UC Berkeley Undergrad. Astr. Research Showcase (Berkeley, CA - USA) 2016 BPURS Poster Presentation (Berkeley, CA - USA) NASA GSFC Poster Session (Greenbelt, Maryland - USA)	Jan 2018 March 2017 Jan 2017 A) Jan 2017 Oct 2016 July 2016
TEACHING APPOINTMENTS	Yale Young Global Scholars (YYGS) Instructor Summer 2022, S ⇒ Program for high school students to explore university-level topics. Serve structor of record for custom-designed astrophysics seminars as part of the in Science & Technology track. Led discussions, simulations, and mentorical Teaching Fellow - Astronomy 105, Yale University Spring 200 ⇒ Introductory order-of-magnitude class, led by Prof. Greg Laughlin.	ved as the in- e Innovations
	Teaching Fellow - Astronomy 130, Yale University ⇒ Introductory exoplanets/astrobiology class, led by Prof. Debra Fischer.	Fall 2017
	⇒ Introductory exopianets/astrobiology class, led by Froi. Debra Fischer. Undergraduate Student Instructor - Astronomy 120, UC Berkeley ⇒ Upper-division optical and infrared astronomy laboratory, led by Dr. Gasp	Fall 2016 ard Duchêne.
	ScoreBeyond Tutor ⇒ SAT/ACT tutoring with ScoreBeyond; developed lesson plans and gut through problems and test-taking skills. 600+ tutoring hours completed.	2016-2018
	Academic Tutor - Independent \Rightarrow Volunteer and paid positions tutoring students in a variety of topics.	2011-2018
SELECTED OUTREACH	Astro[sound] bites Podcast - Co-Founder/Co-Host The official audio spinoff of the Astrobites blog. Three graduate students discuss receastronomy research results and life in academia. Episodes released bi-weekly; 52 to	
	Yale Girls' Science Investigations - Regular Volunteer	2017-2021

Open Labs at Yale - Regular Volunteer

Program designed to empower local middle schools girls to develop skills for success in STEM through hands-on science experiments. Events ${\sim}4\mathrm{x/year}.$

2017-2021

Outreach group that organizes "Science Cafés", virtual Exploring Science evenings, and other educational events geared towards local middle school students.

Astronomy on Tap New Haven - Head Coordinator

2018-2021

Primary organizer of the New Haven branch of Astronomy on Tap, an outreach program to engage our local community by conveying current astronomy research.

Leitner Family Observatory and Planetarium - Presenter

2017-2020

Regular presenter for weekly public planetarium shows at Yale's campus planetarium, the LFOP.

INVITED
OUTREACH
TALKS

Yale Scientific Magazine Careers Talk (20 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)	$\mathrm{Dec}\ 2020$
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

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

DEPARTMENT & UNIVERSITY LEADERSHIP

McDougal/Poorvu Graduate Teaching Fellow

2018-2022

Developed and led 36 pedagogy workshops for Yale graduate students and postdocs. Read and discuss recent literature in pedagogical studies; provide constructive feedback for instructors.

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).

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 202

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".

Yale Exoplanets & Stars Seminar Coordinator

2020-2021

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 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.

Yale Poorvu Center Student Advisory Committee Member

2019-2020

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 show-

case, bi-weekly undergraduate socials, monthly departmental socials, graduate school/internship application workshops, and visiting scientist events.

UC Berkeley Study Abroad Student Ambassador

2015-2017

Advocated study abroad programs with a focus on STEM majors and international collaboration.

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.

Space Exploration Society at Berkeley (SESB) – Treasurer

2014-2015

PROFESSIONAL SERVICE

Referee for AAS Journals, A&A, MNRAS, P&SS Executive Secretary, NASA XRP Review Panel

Reviewer, Yale Undergraduate Research Journal (YURJ)

External Reviewer, Nat. Fund for Sci. and Tech. Dev., Chile (FONDECYT)

INVITED PANELS

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	$\mathrm{Feb}\ 2020$
Yale SACNAS/STARS II: Applying to Graduate School	Oct 2019

WORKSHOPS & SUMMER

SCHOOLS

Transformations (online)	May 2021
Astro Hack Week (online)	Sep 2020
WFIRST Science Jamboree (New York City, NY - USA)	March 2020
TESS Ninja 3: Expanding the Science of TESS (Sydney, Australia)	Feb 2020
AAS Hack Together Day (Seattle, WA - USA)	Jan 2019
AAS Ambassadors Workshop (Seattle, WA - USA)	Jan 2019
La Serena School for Data Science (La Serena, Chile)	Aug 2018
International HPC Summer School (Ostrava, Czech Republic)	July 2018
International Summer School in Astrobiology (Santander, Spain)	June 2017
Brave New Worlds - Lake Como School of Advanced Studies ($Como$,	Italy) May 2016

PROFESSIONAL SOCIETIES

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

COVERAGE

SELECTED MEDIA 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.

RATIONS

LARGE COLLABO- Gemini Planet Imager Exoplanet Survey (GPIES) Debris Disk Team; California Planet Search HIRES Observers; Twinkle Science Consortium; LSST Solar System Science Collaboration (SSSC); Large Interferometer For Exoplanets (LIFE) Team: Exoplanet Science Working Group