Sarah C. Millholland

MIT Kavli Institute for Astrophysics and Space Research sarah.millholland@mit.edu 77 Massachusetts Avenue, Building 37, Room 611 www.sarahmillholland.com Cambridge, MA 02139 RESEARCH Exoplanet detection & characterization; demographics & orbital architectures of planetary systems; planetary dynamics and celestial mechanics; planetary atmospheres Interests **EDUCATION** July 2016 - May 2020 Yale University, New Haven, CT Ph.D. in Astronomy, May 2020 Thesis: Data-Driven Dynamics of Planetary Systems Advisor: Prof. Greg Laughlin M.S., M.Phil. in Astronomy, May 2018 Sept. 2015 – June 2016 UC Santa Cruz, Santa Cruz, CA Pursuit of Ph.D. in Astronomy & Astrophysics (transferred after completing first year) University of Saint Thomas, Saint Paul, MN Sept. 2011 - May 2015 **B.S.** in Physics; **B.A.** in Mathematics, May 2015 Summa Cum Laude **POSITIONS Assistant Professor** July 2022 – present Department of Physics, Massachusetts Institute of Technology July 2020 - June 2022 NASA Sagan Fellow Department of Astrophysical Sciences, Princeton University Supervisor: Prof. Joshua Winn NSF Graduate Research Fellow 2017 - 2020Department of Astronomy, Yale University Advisor: Prof. Greg Laughlin Graduate Student Researcher 2015 - 2017Department of Astronomy, Yale University (2016 – 2017) Department of Astronomy & Astrophysics, UCSC (2015 - 2016) Advisor: Prof. Greg Laughlin AWARDS - Vera Rubin Early Career Prize of the Division of Dynamical Astronomy 2024 - Brouwer Prize ("awarded to Yale astronomy graduates for 2021 contributions of unusual merit to any branch of astronomy") - Lyman Spitzer Jr. Postdoctoral Fellowship, Princeton University 2020 - 2022- NASA Hubble Fellowship Program (NHFP) Sagan Fellowship 2020 - 2022- Tinsley Award ("best paper by a Yale astronomy graduate 2018 student"; for Millholland & Laughlin 2017b) - DDA/AAS Raynor L. Duncombe Prize for Student Research 2018 - Yale Conference Travel Fellowship 2017 - NSF Graduate Research Fellowship 2017 - 2020- UCSC Regents Fellowship 2015 - NSF Graduate Research Fellowship Honorable Mention 2015 - Barry M. Goldwater Scholarship (national science scholarship) 2014 - 2015- Smith Academic Scholarship 2014 - 2015

	 Danger Mathematics Scholarship UST Collaborative Inquiry Research Scholarship Walczak Mathematics Scholarship B. John Barry Academic Scholarship UST Endowed Scholarship 	2013 - 2014, 2014 - 2015 2014 $2013 - 2014$ $2012 - 2013$ $2011 - 2015$
Grants Awarded	- NSF Astronomy & Astrophysics Research Grant PI Sarah Millholland, \$524k "Origin and Evolution of the Polar Planets"	2023-2026
Teaching	 Classical Mechanics III (8.09/8.309, graduate level), MIT Physics I: Classical Mechanics (8.012), MIT Physics II: Electricity and Magnetism (8.02), MIT Teaching Fellow, Planets and Stars, Yale University Teaching Fellow, Physics of Planetary Systems, UCSC Teaching Fellow, Overview of the Universe, UCSC Teaching Assistant, Modern Physics, UST Observatory Lab Instructor, Introduction to Astronomy, UST and the UST Observatory 	Spring 2024 Fall 2022, Fall 2023 Spring 2023 Spring 2017 Spring 2016 Fall 2016 Springs 2014, 2015 Fall 2012 – Spring 2015

Advising

Graduate students

- Ritika Sethi, MIT graduate student, Fall 2023 present
- Emma Louden, Yale graduate student, Fall 2022 present
- Anna Simpson, MIT graduate student, Fall 2023 Spring 2024

Undergraduate students

- Haedam Im, MIT, Fall 2022 present
- DJ Liveoak, MIT, Summer 2023 present
- Brennen Black, MIT, Spring 2023 present
- Orion Foo, MIT, Fall 2022 Fall 2023
- Teo Lara, MIT, Spring 2023 Summer 2023
- Jan Toomlaid, MIT, Spring 2023 Summer 2023
- Felicia Xiao, MIT, Summer 2023
- Nicole Sobski, Wellesley, Summer 2022 Spring 2023
- Nicole Gountanis, Princeton, Fall 2021
- Joshua Zou, Princeton, Summer 2021
- David Jensen, Princeton, Fall 2020
- Samantha Berek, Yale, 2018 2020

REFEREED PUBLICATIONS

First author (underline=student supervised by S.C.M.)

- 15. **Millholland, S.**, <u>Lara, T.</u>, & <u>Toomlaid, J.</u> "Spin Dynamics of Planets in Resonant Chains." 2024, ApJ, 961, 203
- 14. Millholland, S., He, M., & Zink, J. "Edge-of-the-Multis: Evidence for a Transition in the Outer Architectures of Compact Multi-Planet Systems." 2022, AJ, 164, 72
- 13. **Millholland, S.** & Winn, J. "Split Peas in a Pod: Intra-System Uniformity of Super-Earths and Sub-Neptunes." 2021, ApJL, 920, L34
- 12. Millholland, S., He, M., Ford, E., et al. "Evidence for a Non-Dichotomous Solution to the Kepler Dichotomy: Mutual Inclinations of Kepler Planetary Systems from Transit Duration Variations." 2021, AJ, 162, 166

- 11. Millholland, S. & Spalding, C. "Formation of Ultra-Short-Period Planets by Obliquity-Driven Tidal Runaway." 2020, ApJ, 905, 71
- Millholland, S., Petigura, E., & Batygin, K. "Tidal Inflation Reconciles Low-Density Sub-Saturns with Core Accretion." 2020, ApJ, 897, 7
- Millholland, S. "Tidally Induced Radius Inflation of Sub-Neptunes." 2019, ApJ, 886, 72
- 8. Millholland, S. & Batygin, K. "Excitation of Planetary Obliquities Through Planet-Disk Interactions." 2019, ApJ, 876, 119
- 7. Milholland, S. & Laughlin, G. "Obliquity-Driven Sculpting of Exoplanetary Systems." 2019, Nature Astronomy, 3, 424
- Millholland, S. & Laughlin, G. "Obliquity Tides May Drive WASP-12b's Rapid Orbital Decay." 2018, ApJL, 869, L15
- Millholland, S., Laughlin, G., Teske, J., et al. "New Constraints on Gliese 876
 Exemplar of Mean-Motion Resonance." 2018, AJ, 155, 106
- 4. Millholland, S., Wang, S., & Laughlin, G. "Kepler Multi-Planet Systems Exhibit Unexpected Intra-system Uniformity in Mass and Radius." 2017, ApJL, 849, L33
- 3. Millholland, S. & Laughlin, G. "Supervised Learning Detection of Sixty Non-Transiting Hot Jupiter Candidates." 2017, AJ, 154, 83
- 2. Millholland, S. & Laughlin, G. "Constraints on Planet Nine's Orbit and Sky Position within a Framework of Mean-motion Resonances." 2017, AJ, 153, 91
- 1. Millholland, S., Wang, S., & Laughlin, G. "On the Detection of Non-Transiting Hot Jupiters in Multiple Planet Systems." 2016, ApJL, 823, L7

Second author (underline=student supervised by S.C.M.)

- 7. Gupta, A., **Millholland, S.**, $\underline{\text{Im}}$, $\underline{\text{H}}$., et al. "A hot Jupiter progenitor on a super-eccentric, retrograde orbit." $2\overline{024}$, Nature, submitted
- 6. Sobski, N. & Millholland, S. "Can Cold Jupiters Sculpt the Edge-of-the-Multis?" 2023, ApJ, 954, 137
- 5. Weiss, L., Millholland, S., Petigura, E., Adams, F., Batygin, K., Bloch, A., & Mordasini, C. "Architectures of Compact Multi-planet Systems: Diversity and Uniformity." 2023, Protostars and Planets VII book chapter, arXiv: 2203.10076
- 4. <u>Jensen, D.</u> & **Millholland, S.** "Inferred Properties of Planets in Mean-Motion Resonances are Biased by Measurement Noise." 2022, AJ, 164, 144
- 3. Lillo-Box, J., Millholland, S., & Laughlin, G. "Follow-up of Non-Transiting Planets Detected by Kepler: Confirmation of Three Hot Jupiters and Validation of Three Other Planets." 2021, A&A, 654, 9
- Spalding, C. & Millholland, S. "Stellar Oblateness versus Distant Giants in Exciting Kepler Planet Mutual Inclinations." 2020, AJ, 160, 105
- 1. Adams, A. D., **Millholland, S.**, & Laughlin, G. "Signatures of Obliquity in Thermal Phase Curves of Hot Jupiters." 2019, AJ, 158, 3

Other co-author (underline=student supervised by S.C.M.)

- Lu, T., An, Q., Li, G., Millholland, S., Brandt, G. M., Brandt, T. D. "Planet-Planet Scattering and ZLK Migration: The Dynamical History of HAT-P-11." 2024, AAS Journals, submitted
- 17. Dai, F., Goldberg, M., Batygin, K., et al. including **Millholland, S.** [14 total] "The Prevalence of Resonance Among Young, Close-in Planets." 2024, AAS Journals, submitted

- 16. Burt, J., Hooton, M., Mamajek, E., Barragán, O, **Millholland, S.**, et al. [15 total] "TOI-1685 b is a Hot Rocky Super-Earth: Updates to the Stellar and Planet Parameters of a Popular JWST Cycle 2 Target." 2024, ApJL, in press
- Leleu, A., Delisle, J., Burn, R., Izidoro, A., Udry, S., Dumusque, X., Lovis, C.,
 Millholland, S., et al. [15 total] "Resonant Sub-Neptunes are Puffier." 2024,
 A&A, submitted
- 14. Burdge, K., El-Badry, K., Kara, E., Canizares, C., Chakrabarty, D., Frebel, A., Millholland, S., Rappaport, S., Simcoe, R., Vanderburg, A. "The black hole low mass X-ray binary V404 Cygni is part of a wide hierarchical triple, and formed without a kick." 2024, Nature, submitted
- 13. Fairnington, T., Nabbie, E., Huang, C., Zhou, G., Foo, O., Millholland, S., et al. "TOI-5126: A hot super-Neptune and warm Neptune pair discovered by TESS and CHEOPS." 2024, MNRAS, 527, 8768
- 12. <u>Louden, E.</u>, Laughlin, G., & **Millholland, S.** "Evidence for Two Dissipation Regimes Among the Short-Period Exoplanets." 2023, ApJL, 958, L21
- 11. Murgas, F., Castro-González, A., Pallé, Pozuelos, F., Millholland, S., Foo, O., et al. "Two super-Earths at the edge of the habitable zone of the nearby M dwarf TOI-2095." 2023, A&A, 677, A182
- Lu, T., Rein, H., Tamayo, D., Hadden, S., Mardling, R., Millholland, S., & Laughlin, G. "Self-Consistent Spin, Tidal and Dynamical Equations of Motion in the REBOUNDx Framework." 2023, ApJ, 948, 41
- Bozhilov, V., Antonova, D., Hobson, M., Brahm, R., Jordán, A., et al. including Millholland, S. "A 2:1 Mean-Motion Resonance Super-Jovian Pair Revealed by TESS, FEROS, and HARPS." 2023, ApJL, 946, L36
- 8. Zhao, L., Kunovac, V., Brewer, J., Llama, J., **Millholland, S.**, et al. [11 total] "Measured Spin-Orbit Alignment of Ultra-Short Period Super-Earth 55 Cancri e." 2023, Nature Astronomy, 7, 198
- Stefansson, G., Mahadevan, S., Petrovich, C., Winn, J., Kanodia, S., Millholland,
 S., et al. [37 total] "The Warm Neptune GJ 3470b has a Polar Orbit." 2022, ApJL,
 931, L15
- Azari, A., Biersteker, J., Dewey, R., Doran, G., et al. including Millholland, S. [16 total] "Integrating Machine Learning for Planetary Science: Perspectives for the Next Decade." 2021, BAAS, 53, 128 (white paper)
- 5. Davis, A., Wang, S., Jones, M., Eastman, J., Günther, M., Stassun, K., et al. including **Millholland**, S. [51 total] "TOI 564 b and TOI 905 b: Grazing and Fully Transiting Hot Jupiters Discovered by TESS." 2020, AJ, 160, 229
- Bryan, M., Chiang, E., Bowler, B. P., Morley, C. V, Millholland, S., Blunt, S., Ashok, K. B., Nielsen, E., Ngo, H., Mawet, D., Knutson, H. A. "Obliquity Constraints on an Extrasolar Planetary-Mass Companion." 2020, AJ, 159, 181
- 3. Wang, S., Jones, M., Shporer, A., Fulton, B. J., Paredes, L. A., Trifonov, T., Kossakowski, D., Eastman, J., Redfield, S., Günther, M. N., Kreidberg, L., Huang, C. X., **Millholland, S.**, et al. [60 total] "HD 202772Ab: A Transiting Hot Jupiter Around a Bright, Mildly Evolved Star in a Visual Binary Discovered by TESS." 2019, AJ, 157, 51
- 2. Becker, J. C., Khain, T., Hamilton, S. J., Adams, F. C., Gerdes, D. W., Zullo, L., Franson, K., **Millholland, S.**, et al. [66 total] "Discovery and Dynamical Analysis of an Extreme Trans-Neptunian Object with a High Orbital Inclination." 2018, AJ, 156, 81

 Janvier, M., Savcheva, A., Pariat, E., Tassev, S., Millholland, S., Bommier, V., McCauley, P., McKillop, S., Dougan, F. "Evolution of Flare Ribbons, Electric Currents and Quasi-separatrix Layers During an X-class Flare." 2016, A&A, 591, A141

SEMINARS & COLLOQUIA (*=INVITED)

- * Five College Astronomy Department Colloquium, University of Massachusetts Amherst, March 2024
- * Physics Colloquium, Clark University, March 2024
- * Exoplanet Seminar, University of Geneva, Sept. 2023
- * Astronomy Colloquium, The Ohio State University, April 2023
- * Physics & Applied Math Seminar, University of St. Thomas, March 2023
- * Institute for Theory and Computation Colloquium, Center for Astrophysics Harvard & Smithsonian, Nov. 2022
- * Planetary Lunch Seminar, Massachusetts Institute of Technology, Sept. 2022
- * Astrophysics Colloquium, Chalmers University of Technology, May 2022
- * Astronomy Colloquium, University of Wisconsin-Madison, March 2022
- * Stellar Astrophysics Center Seminar, Aarhus University, November 2021
- * Astronomy Colloquium, California Institute of Technology, October 2021
- * Astronomy Colloquium, Columbia University, October 2021
- * Astronomy Colloquium, University of Rochester, September 2021
- * Astrophysics Seminar, Astrophysical Fluid Dynamics Group at DAMTP, University of Cambridge, May 2021
- * Astronomy Colloquium, University of California Los Angeles, March 2021
- * Center for Integrative Planetary Science Seminar, University of California Berkeley, March 2021
- * Exoplanets and Protoplanetary Disks Research Group Talk, Imperial College London, March 2021
- * Canadian Institute for Theoretical Astrophysics Seminar, University of Toronto, March 2021
- * Center for Astrophysical Sciences Seminar, Johns Hopkins University, Feb. 2021
- * Astronomy Seminar, Carnegie Earth and Planets Laboratory, Feb. 2021
- * Astrophysics Colloquium, Massachusetts Institute of Technology, Feb. 2021
- * Colloquium, Center for Computational Astrophysics, Flatiron Institute, Oct. 2020
- * JILA Astrophysics Seminar, University of Colorado Boulder, Oct. 2020
- * JPL Exoplanet Journal Club Talk, NASA Jet Propulsion Laboratory, Aug. 2020
- * Special Seminar, Climate and Space Sciences and Engineering, University of Michigan, Feb. 2020
- * Cosmos Seminar, The University of Texas at Austin, Oct. 2019
- * Institute for Theory and Computation Seminar, Center for Astrophysics Harvard & Smithsonian, Oct. 2019
- Friday Lunch Time Astrophysics Seminar, University of California Santa Cruz, Oct. 2019
- Tuesday Lunch Talk, University of California Los Angeles, Oct. 2019
- Astronomy Tea Talk, California Institute of Technology, Oct. 2019
- Exoplanet Tea Talk, Massachusetts Institute of Technology, Sept. 2019
- * Planetary Lunch Seminar, Cornell University, Sept. 2019
- Astronomy Seminar, Columbia University, Sept. 2019
- Star and Planet Formation Seminar, University of Michigan, March 2019
- Exoplanet Lunch Seminar, Princeton University, Feb. 2019
- * Center for Exoplanets & Habitable Worlds Seminar, Penn State University, Feb.

2019

- * Extrasolar Planets Seminar, NASA Goddard Space Flight Center, April 2018
- * Planetary Science Seminar, California Institute of Technology, Dec. 2017
- * Stars & Planets Seminar, Harvard-Smithsonian Center for Astrophysics, Nov. 2017
- Exoplanet Pizza Lunch, Harvard-Smithsonian Center for Astrophysics, March 2017

Conference Talks (*=invited)

- * Invited talk, NASA SEEC Symposium: Pathways to Characterizing Non-Transiting Planets, NASA GSFC, April 2024
- Extreme Solar Systems V, Christchurch, New Zealand, March 2024
- * Invited review, Division of Dynamical Astronomy Meeting, East Lansing, MI, May 2023
- * Invited review, Protostars & Planets VII (review of PPVII Chapter 24), Kyoto, Japan, April 2023
- AAS Meeting #241, Seattle, WA, January 2023
- Exoplanets IV, Las Vegas, NV, May 2022
- Division of Dynamical Astronomy Meeting, Flatiron Institute, New York, NY, April 2022
- 2021 NHFP Symposium, virtual conference, October 2021
- AAS Meeting #238, virtual conference, June 2021
- Division of Dynamical Astronomy Meeting, virtual conference, May 2021
- PLATO ESP Workshop on Planetary Interiors and System Architectures, virtual conference, November 2020
- 2020 NHFP Symposium, virtual conference, September 2020
- Division of Dynamical Astronomy Meeting, virtual conference, August 2020
- Boston Area Exoplanet Science Meeting #7, virtual conference, April 2020
- AAS Meeting #235, Honolulu, HI, January 2020
- Extreme Solar Systems IV, Reykjavik, Iceland, August 2019
- Emerging Researchers in Exoplanet Science (ERES) V, Cornell University, Ithaca, NY, June 2019
- Division of Dynamical Astronomy Meeting, Boulder, CO, June 2019
- Kepler & K2 Science Conference V, Glendale, CA, March 2019
- Boston Area Exoplanet Science Meeting, Boston University, Boston, MA, Jan. 2019
- 2018 CT Exoplanets Meeting, Wesleyan University, Middletown, CT, July 2018
- Emerging Researchers in Exoplanet Science (ERES) IV, Pennsylvania State University, State College, PA, June 2018
- Planet Nine Workshop, California Institute of Technology, Pasadena, CA, May 2018
- Division of Dynamical Astronomy Meeting, San Jose, CA, April 2018
- Numerical Integration Methods in Planetary Science, University of Toronto at Scarborough, Toronto, Ontario, August 2017
- Numerical Integration Methods in Planetary Science, University of Toronto at Scarborough, Toronto, Ontario, August 2017
- Kepler & K2 Science Conference IV, NASA Ames Research Center, Moffett Field, CA, June 2017
- Emerging Researchers in Exoplanet Science (ERES) III, Yale University, New Haven, CT, June $2017\,$
- 2017 CT Exoplanets Meeting, Wesleyan University, Middletown, CT, May 2017
- 2017 Aspen Winter Conference, Formation and Dynamical Evolution of Exoplanets, Aspen, CO, March 2017

WEB BLOG PUBLICATIONS

- "Tilting Planets and Sculpting Orbits", invited guest post by S. Millholland at *Nature Research Behind the Paper*, March 2019

Professional ACTIVITIES & SERVICE

Reviews

- Reviewer for Nature, Nature Astronomy, AJ, ApJ, ApJL, PSJ, A&A, MNRAS, PASP
- Panel reviewer, NSF (AAG, CAREER)
- Panel reviewer, NASA (XRP, TESS GI, HST TAC)
- External reviewer, Canada-France-Hawaii Telescope
- External reviewer, OPTICON Telescope Transnational Access

Organizing Committees

- Executive Committee, Division of Dynamical Astronomy	2021 -
- SOC, Exoplanets V	2023 - 2024
- SOC, Extreme Solar Systems V	2023 - 2024
- SOC, DDA 54th Annual Meeting	2022 - 2023
- SOC, DDA 53rd Annual Meeting	2021 - 2022
- Organizer, Princeton Planetary Dynamics Reading Group	2020 - 2022
- SOC, Emerging Researchers in Exoplanet Science (ERES)	2017, 2019, 2021
Conference III (Yale), V (Cornell) and VI (virtual)	

MIT Physics Departmental Service

- Physics Values Committee	2023 – present
- Graduate Admissions Committee	2024
- MSRP Admissions Committee	2023
- Grader for Classical Mechanics Written Exam	2023
- Physics Core Requirements Review Ad Hoc Committee	2023
- Kavli Postdoctoral Fellowship Review Committee	2023
- Torres Postdoctoral Fellowship Review Committee	2023
- 51 Pegasi b Fellowship Review Committee	2023, 2024
- Organizing Committee, Prospective Graduate Student Open House	2023
- Astro Oral Exam Committee	2023

Diversity & Inclusion Involvement

- Committee member, MIT Physics Values Committee	2023 -
- Co-organizer, Seminar Series on Equity, Diversity and Inclusion	2020 - 2021
for the Departments of Physics and Astrophysics at Princeton	
- Committee member, Improving equity and inclusion in graduate	2020
admissions at the Department of Astrophysics at Princeton	
- Organizer, Panel Discussion at Emerging Researchers in	2019
Exoplanet Science V: "Diversity & Inclusion in Astronomy"	

Professional Affiliations & Mentorship

- Member, American Astronomical Society
- Member, Division of Dynamical Astronomy of the AAS

- Mentor, Goldwater Scholar Community Mentorship Program	2021 -
- Mentor, DDA Mentorship Program	2021 -
- Mentor, Princeton Astrophysics Mentorship Program	2021 -

OUTREACH

- Skyscrapers Astronomical Society of Rhode Island, August 2023 (talk)
- Talks and
- Warrior-Scholar Project, MIT, July 2023 (lectures)

- PUBLICATIONS Assembly Speaker Series, Commonwealth School, April 2023 (talk)
 - STEAM Speaker Series, International School of Boston, March 2023 (talk)

- Astronomy Club, International School of Boston, Jan. 2023 (talk)
- Aldrich Astronomical Society Meeting, Dec. 2022 (talk)
- Yale Young Global Scholars Research Showcase (http://globalscholars.yale.edu),
 Yale University, June & July 2022 (virtual talks)
- Exploring Science Program, Yale University, August 2020 (virtual talk)
- Yale Young Global Scholars Research Showcase, Yale University, July 2019 (talk)
- Institute for Learning in Retirement, Albertus Magnus College, October 2018 (talk)
- Yale Young Global Scholars Research Showcase, Yale University, June & July 2018 (talks)
- Leitner Family Observatory & Planetarium, February 2018 (talk)
- Pathways Summer Scholars Program Science Café (http://pathwayssummerscholars.yale.edu), Yale University, July 2017 (talk)
- Yale Young Global Scholars Research Showcase, Yale University, July 2017 (talk)
- Pathways Summer Scholars Enrichment Workshop, Yale University, July 2017 (talk & workshop)
- Yale Open Labs Science Café (http://theopenlabs.org), Yale University, April 2017 (talk)
- 9th Annual Women in Leadership Conference, Yale University, February 2017 (invited panel member)
- "The Search for Planet Nine", a publication for the Hartford Courant News in Education series, *Science Matters!*, January 2017 (article)
- LAMAT REU Program, UC Santa Cruz, July 2016 (talk)
- "Reading Scientific Literature", LAMAT REU Program, UC Santa Cruz, June 2016 (workshop)
- Public Observing Night, University of St. Thomas Observatory, March 2013 (talk & public observing)
- Minnesota Optical Society Meeting, March 2013 (talk)

SELECTED OUTREACH

- Over 20 outreach talks to date (see list above)
- Physics lecturer, Warrior-Scholar Project (https://www.warrior-scholar.org/)
 Guest speaker, MIT Physics First-Year Graduate Student Seminar 2023
- Yale Open Labs (http://theopenlabs.org) $\begin{array}{c} 2016-2018 \\ \text{Committee chair for Science Café Talk Series} \\ \text{Executive board member} \end{array}$ $\begin{array}{c} 2016-2018 \\ 2017-2018 \\ \end{array}$
- Organizer of Yale Young Global Scholars Program visits 2017, 2018 to the Astro. Department (http://globalscholars.yale.edu)
- Public Night Volunteer, Lick Observatory Summer 2016
- Astronomy Public Night Leader, UST Observatory 2012 2015

SELECTED MEDIA COVERAGE

- Tilted planets (Millholland & Laughlin 2019) featured in Scientific American, Sky & Telescope, Popular Science, Science Daily, Live Science, Space.com, Yale News.
- Intra-system uniformity (Millholland et al. 2017) featured in AAS Nova, Nature Research Highlights.
- Machine learning detection of hot Jupiters (Millholland & Laughlin 2017b) featured in National Geographic, Sky & Telescope, FOX 61 Connecticut News (television), University of St. Thomas News, Yale News.
- Featured subject for University of St. Thomas television and online advertisements