LAUREN M. WEISS

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Nieuwland Science Hall, Notre Dame, Indiana 46556, USA

PROFESSIONAL APPOINTMENTS

Assistant Professor 2021-present
Department of Physics and Astronomy, University of Notre Dame, Notre Dame, IN USA
Research Affiliate 2021-present
Institute for Astronomy, University of Hawai'i at Mānoa, Honolulu, HI USA
Beatrice Watson Parrent Fellow 2018-2021
Institute for Astronomy, University of Hawai'i at Mānoa, Honolulu, HI USA
Trottier Fellow 2016-2018
Institut de Recherche sur les Exoplanètes, Université de Montréal, Montréal, QC Canada

EDUCATION

Ph.D. in Astronomy, University of California at Berkeley 2011-2016
M.Phil. in Astronomy, University of Cambridge 2010-2011
B.A. *cum laude* in Astronomy & Astrophysics, Harvard University 2006-2010

GRANTS

NASA Exoplanet Research Program Award 2022
"The Origin of Earth: Lessons from Multi-Planet Systems"
PI: L. M. Weiss, award: $555,917
NASA TESS Guest Investigator Award 2022
"Precise Exoplanet Transits For The Brightest Stars Using Tess 20-Second Cadence Data"
PI: D. Huber, award: $70,000
University of Notre Dame *Moment to See, Courage to Act* Origins Initiative 2021
PI: L.M. Weiss, award: $5,000
NASA Keck Key Strategic Mission Support Award 2019-2021
"Precise Masses and Densities of Kepler Transiting Planets in Multi-Planet Systems"
PI: L.M. Weiss, award: $2M total value from 16 Keck Nights + $150,000
NASA Keck Key Strategic Mission Support Award 2019-2021
"The TESS-Keck Survey"
CO-Is: N. Batalha, I. Crossfield, C. Dressing, B.J. Fulton, H. Isaacson, S. Kane, E. Petigura, P. Robinson, and **L. M. Weiss**.

AWARDS

Beatrice Watson Parrent Fellowship 2018-2021
Trottier Fellowship 2016-2018
Ken & Gloria Levy Fellowship 2014-2016
Outstanding Graduate Student Instructor Award 2013
Thomas Temple Hoopes Prize, Harvard University *for an outstanding senior thesis* 2011
Herchel Smith Harvard Scholarship 2010
National Science Foundation Graduate Research Fellowship 2010
Leo Goldberg Prize, Harvard University *for an outstanding junior thesis* 2009
Chambliss Astronomy Student Achievement Award, American Astronomical Society 2009
Intel Science Talent Search Semi-finalist 2006
Bausch & Lomb Award, University of Rochester 2005

RESEARCH HIGHLIGHTS

- Discovered the distinction between planets with rocky surfaces vs. gas-enveloped planets at 1.5 Earth radii (487 citations)
- Discovered the similar sizes and regular orbital spacings of hundreds of exoplanets in coplanar, multi-planet systems (188 citations)
- Developed and led exoplanet population surveys with large-aperture ground-based telescopes: California-*Kepler* Survey [I, II, III, IV, V, VI, VIII, IX] (2013-2020), TESS-Keck Survey [I–XI] (2019-present), *Kepler* Masses-in-Multis Survey (2019-present)
- Developed and improved software for self-consistent analysis of Doppler and transit-timing variations to discover planets and determine their masses and orbits [W20, W17, W16, W13]
- Commissioned the Automated Planet Finder, a 2.3m fully automated telescope at Lick Observatory, CA
- Trained 25 student observers in planet hunting techniques, W. M. Keck Observatory and Automated Planet Finder

PUBLICATIONS

Bibliography includes 88 refereed manuscripts with 4600+ citations, h-index=33 and 19 first-author and student-led articles. NASA ADS, Google Scholar

Books and Invited Chapters

1. *Architectures of Compact Multi-planet Systems: Diversity and Uniformity*, **Weiss, L. M.**, Millholland, S. C., Petigura, E. A., Adams, F. C., Batygin, K., Bloch, A. M., & Mordasini, C., Protostars and Planets VII (2023), **6 citations**

Most Impactful Journal Articles

6. *The California Legacy Survey. I. A Catalog of 178 Planets from Precision Radial Velocity Monitoring of 719 Nearby Stars over Three Decades*, Rosenthal, L. J., Fulton, B. J., Hirsch, L. A., et al., The Astrophysical Journal Supplements, 255, 8 (2021) **70 citations**
5. *The California-Kepler Survey. V. Peas in a Pod: Planets in a Kepler Multi-planet System Are Similar in Size and Regularly Spaced*, **Weiss, L. M.**, Marcy, G. W., Petigura, E. A., et al., The Astronomical Journal, 155, 48 (2018), **188 citations**
4. *The California-Kepler Survey. III. A Gap in the Radius Distribution of Small Planets*, Fulton, B. J., Petigura, E. A., Howard, A. W., et al., The Astronomical Journal, 154, 109 (2017), **737 citations**
3. *The Mass-Radius Relation for 65 Exoplanets Smaller than 4 Earth Radii*, **Weiss, L. M.**, & Marcy, G. W., The Astrophysical Journal Letters, 783, L6 (2014), **487 citations**
2. *Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets*, Marcy, G. W., Isaacson, H., Howard, A. W., et al., The Astrophysical Journal Supplements,210,20 (2014), **373 citations**
1. *The Mass of KOI-94d and a Relation for Planet Radius, Mass, and Incident Flux*, **Weiss, L. M.**, Marcy, G. W., Rowe, J. F., et al., The Astrophysical Journal, 768, 14 (2013), **219 citations**

First-Author and Student-Led Journal Articles

19. *A Dynamical Systems Approach to the Theory of Circumbinary Orbits in the Circular Restricted Problem*, Langford, A., & **Weiss, L. M.**, accepted for publication in the Astronomical Journal (2023)

18. *Kepler-102: Masses and Compositions for a Super-Earth and Sub-Neptune Orbiting an Active Star*, Brinkman, C. L., Cadman, J., **Weiss, L.**, et al., The Astronomical Journal,165,74 (2023)

17. *TOI-561 b: A Low Density Ultra-Short Period "Rocky" Planet around a Metal-Poor Star*, Brinkman, C., **Weiss, L. M.**, Dai, F., et al., arXiv e-prints,arXiv:2210.06665 (2022) **1 citation**

16. *The TESS-Keck Survey: Science Goals and Target Selection*, Chontos, A., Murphy, J. M. A., MacDougall, M. G., et al., The Astronomical Journal,163,297 (2022), **9 citations**

15. *The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246*, Turtelboom, E. V., **Weiss, L. M.**, Dressing, C. D., et al., The Astronomical Journal,163,293 (2022)

14. *TESS-Keck Survey. IX. Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian plus a Distant Substellar Companion*, Lubin, J., Van Zandt, J., Holcomb, R., et al., The Astronomical Journal,163,101 (2022), **5 citations**

13. *Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129*, Zhang, J., **Weiss, L. M.**, Huber, D., et al., The Astronomical Journal,162,89 (2021), **6 citations**

12. *The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Galactic Thick-disk Star TOI-561*, **Weiss, L. M.,**, Dai, F., Huber, D., et al., The Astronomical Journal,161,56 (2021), **24 citations**

11. *The Discovery of the Long-Period, Eccentric Planet Kepler-88 d and System Characterization with Radial Velocities and Photodynamical Analysis*, **Weiss, L. M.,**, Fabrycky, D. C., Agol, E., Mills, S. M., Howard, A. W., Isaacson, H., Petigura, E. A., Fulton, B., Hirsch, L., & Sinukoff, E., The Astronomical Journal,159,242 (2020), **9 citations**

10. *The Kepler Peas in a Pod Pattern is Astrophysical*, **Weiss, L. M.,**, & Petigura, E. A., The Astrophysical Journal Letters,893,L1 (2020), **31 citations**

9. *Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au*, Blunt, S., Endl, M., **Weiss, L. M.**, et al., The Astronomical Journal,158,181 (2019), **19 citations**

8. *The California-Kepler Survey. VI. Kepler Multis and Singles Have Similar Planet and Stellar Properties Indicating a Common Origin*, **Weiss, L. M.,**, Isaacson, H. T., Marcy, G. W., et al., The Astronomical Journal,156,254 (2018), **38 citations**

7. *The California-Kepler Survey. V. Peas in a Pod: Planets in a Kepler Multi-planet System Are Similar in Size and Regularly Spaced*, **Weiss, L. M.,**, Marcy, G. W., Petigura, E. A., et al., The Astronomical Journal,155,48 (2018), **188 citations**

6. *New Insights on Planet Formation in WASP-47 from a Simultaneous Analysis of Radial Velocities and Transit Timing Variations*, **Weiss, L. M.,**, Deck, K. M., Sinukoff, E., et al., The Astronomical Journal,153,265 (2017), **37 citations**

5. *Revised Masses and Densities of the Planets around Kepler-10*, **Weiss, L. M.,**, Rogers, L. A., Isaacson, H. T., et al., The Astrophysical Journal,819,83 (2016), **55 citations**

4. *Three Super-Earths Orbiting HD 7924*, Fulton, B. J., **Weiss, L. M.**, Sinukoff, E., Isaacson, H., Howard, A. W., Marcy, G. W., Henry, G. W., Holden, B. P., & Kibrick, R. I., The Astrophysical Journal,805,175 (2015), **36 citations**

3. *Occurrence and core-envelope structure of 1-4× Earth-size planets around Sun-like stars*, Marcy, G. W., **Weiss, L. M.**, Petigura, E. A., Isaacson, H., Howard, A. W., & Buchhave, L. A., Proceedings of the National Academy of Science,111,12655 (2014), **72 citations**

2. *The Mass-Radius Relation for 65 Exoplanets Smaller than 4 Earth Radii*, **Weiss, L. M.,**, & Marcy, G. W., The Astrophysical Journal Letters,783,L6 (2014), **487 citations**

1. *The Mass of KOI-94d and a Relation for Planet Radius, Mass, and Incident Flux*, **Weiss, L. M.,**, Marcy, G. W., Rowe, J. F., et al., The Astrophysical Journal,768,14 (2013), **219 citations**

Full Bibliography

88. *Radial velocity confirmation of a hot super-Neptune discovered by TESS with a warm Saturn-mass companion,* Knudstrup, E., Gandolfi, D., Nowak, G., Persson, C. M., Furlan, E., Livingston, J., Matthews, E., Lundkvist, M. S., Winther, M. L., Rørsted, J. L., et al., Monthly Notices of the Royal Astronomical Society,519,5637 (2023) [DOI]

87. *Kepler-102: Masses and Compositions for a Super-Earth and Sub-Neptune Orbiting an Active Star,* Brinkman, C. L., Cadman, J., Weiss, L., Gaidos, E., Rice, K., Huber, D., Claytor, Z. R., Bonomo, A. S., Buchhave, L. A., Collier Cameron, A., et al., The Astronomical Journal,165,74 (2023) [DOI]

86. *TESS-Keck Survey. XIV. Two Giant Exoplanets from the Distant Giants Survey,* Van Zandt, J., Petigura, E. A., MacDougall, M., Gilbert, G. J., Lubin, J., Barclay, T., Batalha, N. M., Crossfield, I. J. M., Dressing, C., Fulton, B., et al., The Astronomical Journal,165,60 (2023) [DOI]

85. *TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain,* Dai, F., Masuda, K., Beard, C., Robertson, P., Goldberg, M., Batygin, K., Bouma, L., Lissauer, J. J., Knudstrup, E., Albrecht, S., et al., The Astronomical Journal,165,33 (2023) [DOI]

84. *TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs,* El Mufti, M., Plavchan, P. P., Isaacson, H., Cale, B. L., Feliz, D. L., Reefe, M. A., Hellier, C., Stassun, K., Eastman, J., Polanski, A., et al., The Astronomical Journal,165,10 (2023) [DOI]

83. *Evidence for the volatile-rich composition of a 1.5-Earth-radius planet,* Piaulet, C., Benneke, B., Almenara, J. M., Dragomir, D., Knutson, H. A., Thorngren, D., Peterson, M. S., Crossfield, I. J. M., M. -R. Kempton, E., Kubyshkina, D., et al., Nature Astronomy (2022) [DOI]

82. *Tentative Evidence for Water Vapor in the Atmosphere of the Neptune-sized Exoplanet HD 106315c,* Kreidberg, L., Mollière, P., Crossfield, I. J. M., Thorngren, D. P., Kawashima, Y., Morley, C. V., Benneke, B., Mikal-Evans, T., Berardo, D., Kosiarek, M. R., et al., The Astronomical Journal,164,124 (2022) [DOI]

81. *The California Legacy Survey. III. On the Shoulders of (Some) Giants: The Relationship between Inner Small Planets and Outer Massive Planets,* Rosenthal, L. J., Knutson, H. A., Chachan, Y., Dai, F., Howard, A. W., Fulton, B. J., Chontos, A., Crepp, J. R., Dalba, P. A., Henry, G. W., et al., The Astrophysical Journal Supplements,262,1 (2022) [DOI]

80. *The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-mass Outer Companion around TOI-1272,* MacDougall, M. G., Petigura, E. A., Fetherolf, T., Beard, C., Lubin, J., Angelo, I., Batalha, N. M., Behmard, A., Blunt, S., Brinkman, C., et al., The Astronomical Journal,164,97 (2022) [DOI]

79. *The First High-contrast Images of X-Ray Binaries: Detection of Candidate Companions in the γ Cas Analog RX J1744.7-2713,* Prasow-Émond, M., Hlavacek-Larrondo, J., Fogarty, K., Rameau, J., Guité, L.-S., Mawet, D., Gandhi, P., Rao, A., Steiner, J. F., Artigau, É., et al., The Astronomical Journal,164,7 (2022) [DOI]

78. *The TESS-Keck Survey: Science Goals and Target Selection,* Chontos, A., Murphy, J. M. A., MacDougall, M. G., Fetherolf, T., Van Zandt, J., Rubenzahl, R. A., Beard, C., Huber, D., Batalha, N. M., Crossfield, I. J. M., et al., The Astronomical Journal,163,297 (2022) [DOI]

77. *The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246,* Turtelboom, E. V., Weiss, L. M., Dressing, C. D., Nowak, G., Pallé, E., Beard, C., Blunt, S., Brinkman, C., Chontos, A., Claytor, Z. R., et al., The Astronomical Journal,163,293 (2022) [DOI]

76. *An Aligned Orbit for the Young Planet V1298 Tau b,* Johnson, M. C., David, T. J., Petigura, E. A., Isaacson, H. T., Van Zandt, J., Ilyin, I., Strassmeier, K., Mallonn, M., Zhou, G., Mann, A. W., et al., The Astronomical Journal,163,247 (2022) [DOI]

75. *Scaling K2. V. Statistical Validation of 60 New Exoplanets From K2 Campaigns 2-18,* Christiansen, J. L., Bhure, S., Zink, J. K., Hardegree-Ullman, K. K., Adkins, B. D., Hedges, C., Morton, T. D., Bieryla, A., Ciardi, D. R., Cochran, W. D., et al., The Astronomical Journal,163,244 (2022) [DOI]

74. *Confirmation of the Long-period Planet Orbiting Gliese 411 and the Detection of a New Planet Candidate,* Hurt, S. A., Fulton, B., Isaacson, H., Rosenthal, L. J., Howard, A. W., Weiss, L. M., & Petigura, E. A., The Astronomical Journal,163,218 (2022) [DOI]

73. *The California-Kepler Survey. X. The Radius Gap as a Function of Stellar Mass, Metallicity, and Age,* Petigura, E. A., Rogers, J. G., Isaacson, H., Owen, J. E., Kraus, A. L., Winn, J. N., MacDougall, M. G., Howard, A. W., Fulton, B., Kosiarek, M. R., et al., The Astronomical Journal,163,179 (2022) [DOI]

72. *A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds,* Winters, J. G., Cloutier, R., Medina, A. A., Irwin, J. M., Charbonneau, D., Astudillo-Defru, N., Bonfils, X., Howard, A. W., Isaacson, H., Bean, J. L., et al., The Astronomical Journal,163,168 (2022) [DOI]

71. *The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a nearby Warm Jupiter Companion, from NEID and HIRES,* Wang, X.-Y., Rice, M., Wang, S., Pu, B., Stefánsson, G., Mahadevan, S., Radzom, B., Giacalone, S., Wu, Z.-Y., Esposito, T. M., et al., The Astrophysical Journal Letters,926,L8 (2022) [DOI]

70. *TESS-Keck Survey. IX. Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian plus a Distant Substellar Companion,* Lubin, J., Van Zandt, J., Holcomb, R., Weiss, L. M., Petigura, E. A., Robertson, P., Akana Murphy, J. M., Scarsdale, N., Batygin, K., Polanski, A. S., et al., The Astronomical Journal,163,101 (2022) [DOI]

69. *The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 Day Orbit with the Automated Planet Finder Telescope,* Dalba, P. A., Kane, S. R., Dragomir, D., Villanueva, S., Collins, K. A., Jacobs, T. L., LaCourse, D. M., Gagliano, R., Kristiansen, M. H., Omohundro, M., et al., The Astronomical Journal,163,61 (2022) [DOI]

68. *HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star,* Heidari, N., Boisse, I., Orell-Miquel, J., Hébrard, G., Acuña, L., Hara, N. C., Lillo-Box, J., Eastman, J. D., Arnold, L., Astudillo-Defru, N., et al., Astronomy & Astrophysics,658,A176 (2022) [DOI]

67. *Another Superdense Sub-Neptune in K2-182 b and Refined Mass Measurements for K2-199 b and c,* Akana Murphy, J. M., Kosiarek, M. R., Batalha, N. M., Gonzales, E. J., Isaacson, H., Petigura, E. A., Weiss, L. M., Grunblatt, S. K., Ciardi, D. R., Fulton, B., et al., The Astronomical Journal,162,294 (2021) [DOI]

66. *The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166,* MacDougall, M. G., Petigura, E. A., Angelo, I., Lubin, J., Batalha, N. M., Beard, C., Behmard, A., Blunt,

S., Brinkman, C., Chontos, A., et al., The Astronomical Journal,162,265 (2021) [DOI]

65. *Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf,* Polanski, A. S., Crossfield, I. J. M., Burt, J. A., Nowak, G., López-Morales, M., Mortier, A., Poretti, E., Behmard, A., Benneke, B., Blunt, S., et al., The Astronomical Journal,162,238 (2021) [DOI]

64. *TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935,* Scarsdale, N., Murphy, J. M. A., Batalha, N. M., Crossfield, I. J. M., Dressing, C. D., Fulton, B., Howard, A. W., Huber, D., Isaacson, H., Kane, S. R., et al., The Astronomical Journal,162,215 (2021) [DOI]

63. *TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet,* Osborn, A., Armstrong, D. J., Cale, B., Brahm, R., Wittenmyer, R. A., Dai, F., Crossfield, I. J. M., Bryant, E. M., Adibekyan, V., Cloutier, R., et al., Monthly Notices of the Royal Astronomical Society,507,2782 (2021) [DOI]

62. *Detection and Bulk Properties of the HR 8799 Planets with High-resolution Spectroscopy,* Wang, J. J., Ruffio, J.-B., Morris, E., Delorme, J.-R., Jovanovic, N., Pezzato, J., Echeverri, D., Finnerty, L., Hood, C., Zanazzi, J. J., et al., The Astronomical Journal,162,148 (2021) [DOI]

61. *Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129,* Zhang, J., Weiss, L. M., Huber, D., Blunt, S., Chontos, A., Fulton, B. J., Grunblatt, S., Howard, A. W., Isaacson, H., Kosiarek, M. R., et al., The Astronomical Journal,162,89 (2021) [DOI]

60. *TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes,* Dai, F., Howard, A. W., Batalha, N. M., Beard, C., Behmard, A., Blunt, S., Brinkman, C. L., Chontos, A., Crossfield, I. J. M., Dalba, P. A., et al., The Astronomical Journal,162,62 (2021) [DOI]

59. *California Legacy Survey. II. Occurrence of Giant Planets beyond the Ice Line,* Fulton, B. J., Rosenthal, L. J., Hirsch, L. A., Isaacson, H., Howard, A. W., Dedrick, C. M., Sherstyuk, I. A., Blunt, S. C., Petigura, E. A., Knutson, H. A., et al., The Astrophysical Journal Supplements,255,14 (2021) [DOI]

58. *The California Legacy Survey. I. A Catalog of 178 Planets from Precision Radial Velocity Monitoring of 719 Nearby Stars over Three Decades,* Rosenthal, L. J., Fulton, B. J., Hirsch, L. A., Isaacson, H. T., Howard, A. W., Dedrick, C. M., Sherstyuk, I. A., Blunt, S. C., Petigura, E. A., Knutson, H. A., et al., The Astrophysical Journal Supplements,255,8 (2021) [DOI]

57. *Understanding the Impacts of Stellar Companions on Planet Formation and Evolution: A Survey of Stellar and Planetary Companions within 25 pc,* Hirsch, L. A., Rosenthal, L., Fulton, B. J., Howard, A. W., Ciardi, D. R., Marcy, G. W., Nielsen, E., Petigura, E. A., de Rosa, R. J., Isaacson, H., et al., The Astronomical Journal,161,134 (2021) [DOI]

56. *The TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b,* Rubenzahl, R. A., Dai, F., Howard, A. W., Chontos, A., Giacalone, S., Lubin, J., Rosenthal, L. J., Isaacson, H., Batalha, N. M., Crossfield, I. J. M., et al., The Astronomical Journal,161,119 (2021) [DOI]

55. *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. I. Confirmation of an Eccentric, Cool Jupiter with an Interior Earth-sized Planet Orbiting Kepler-1514,* Dalba, P. A., Kane, S. R., Isaacson, H., Giacalone, S., Howard, A. W., Rodriguez, J. E., Vanderburg, A., Eastman, J. D., Kraus, A. L., Dupuy, T. J., et al., The Astronomical Journal,161,103 (2021) [DOI]

54. *The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Galactic Thick-disk Star TOI-561,* Weiss, L. M., Dai, F., Huber, D., Brewer, J. M., Collins,

K. A., Ciardi, D. R., Matthews, E. C., Ziegler, C., Howell, S. B., Batalha, N. M., et al., The Astronomical Journal,161,56 (2021) [DOI]

53. *Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827,* Kosiarek, M. R., Berardo, D. A., Crossfield, I. J. M., Laguna, C., Piaulet, C., Akana Murphy, J. M., Howell, S. B., Henry, G. W., Isaacson, H., Fulton, B., et al., The Astronomical Journal,161,47 (2021) [DOI]

52. *The Occurrence of Rocky Habitable-zone Planets around Solar-like Stars from Kepler Data,* Bryson, S., Kunimoto, M., Kopparapu, R. K., Coughlin, J. L., Borucki, W. J., Koch, D., Aguirre, V. S., Allen, C., Barentsen, G., Batalha, N. M., et al., The Astronomical Journal,161,36 (2021) [DOI]

51. *The CARMENES search for exoplanets around M dwarfs. LP 714-47 b (TOI 442.01): populating the Neptune desert,* Dreizler, S., Crossfield, I. J. M., Kossakowski, D., Plavchan, P., Jeffers, S. V., Kemmer, J., Luque, R., Espinoza, N., Pallé, E., Stassun, K., et al., Astronomy & Astrophysics,644,A127 (2020) [DOI]

50. *The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c,* Dai, F., Roy, A., Fulton, B., Robertson, P., Hirsch, L., Isaacson, H., Albrecht, S., Mann, A. W., Kristiansen, M. H., Batalha, N. M., et al., The Astronomical Journal,160,193 (2020) [DOI]

49. *A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266,* Demory, B.-O., Pozuelos, F. J., Gómez Maqueo Chew, Y., Sabin, L., Petrucci, R., Schroffenegger, U., Grimm, S. L., Sestovic, M., Gillon, M., McCormac, J., et al., Astronomy & Astrophysics,642,A49 (2020) [DOI]

48. *The Multiplanet System TOI-421,* Carleo, I., Gandolfi, D., Barragán, O., Livingston, J. H., Persson, C. M., Lam, K. W. F., Vidotto, A., Lund, M. B., Villarreal D'Angelo, C., Collins, K. A., et al., The Astronomical Journal,160,114 (2020) [DOI]

47. *The Gaia-Kepler Stellar Properties Catalog. II. Planet Radius Demographics as a Function of Stellar Mass and Age,* Berger, T. A., Huber, D., Gaidos, E., van Saders, J. L., & Weiss, L. M., The Astronomical Journal,160,108 (2020) [DOI]

46. *Dynamical Packing in the Habitable Zone: The Case of Beta CVn,* Kane, S. R., Turnbull, M. C., Fulton, B. J., Rosenthal, L. J., Howard, A. W., Isaacson, H., Marcy, G. W., & Weiss, L. M., The Astronomical Journal,160,81 (2020) [DOI]

45. *California-Kepler Survey. IX. Revisiting the Minimum-mass Extrasolar Nebula with Precise Stellar Parameters,* Dai, F., Winn, J. N., Schlaufman, K., Wang, S., Weiss, L., Petigura, E. A., Howard, A. W., & Fang, M., The Astronomical Journal,159,247 (2020) [DOI]

44. *The Discovery of the Long-Period, Eccentric Planet Kepler-88 d and System Characterization with Radial Velocities and Photodynamical Analysis,* Weiss, L. M., Fabrycky, D. C., Agol, E., Mills, S. M., Howard, A. W., Isaacson, H., Petigura, E. A., Fulton, B., Hirsch, L., & Sinukoff, E., The Astronomical Journal,159,242 (2020) [DOI]

43. *The TESS-Keck Survey. I. A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras,* Dalba, P. A., Gupta, A. F., Rodriguez, J. E., Dragomir, D., Huang, C. X., Kane, S. R., Quinn, S. N., Bieryla, A., Esquerdo, G. A., Fulton, B. J., et al., The Astronomical Journal,159,241 (2020) [DOI]

42. *Updated Parameters and a New Transmission Spectrum of HD 97658b,* Guo, X., Crossfield, I. J. M., Dragomir, D., Kosiarek, M. R., Lothringer, J., Mikal-Evans, T., Rosenthal, L., Benneke, B., Knutson, H. A., Dalba, P. A., et al., The Astronomical Journal,159,239 (2020) [DOI]

41. *The Kepler Peas in a Pod Pattern is Astrophysical,* Weiss, L. M., & Petigura, E. A., The Astrophysical Journal Letters,893,L1 (2020) [DOI]

40. *Evidence for Spin-Orbit Alignment in the TRAPPIST-1 System,* Hirano, T., Gaidos, E., Winn, J. N., Dai, F., Fukui, A., Kuzuhara, M., Kotani, T., Tamura, M., Hjorth, M., Albrecht, S., et al., The Astrophysical Journal Letters,890,L27 (2020) [DOI]

39. *K2-19b and c are in a 3:2 Commensurability but out of Resonance: A Challenge to Planet Assembly by Convergent Migration,* Petigura, E. A., Livingston, J., Batygin, K., Mills, S. M., Werner, M., Isaacson, H., Fulton, B. J., Howard, A. W., Weiss, L. M., Espinoza, N., et al., The Astronomical Journal,159,2 (2020) [DOI]

38. *Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au,* Blunt, S., Endl, M., Weiss, L. M., Cochran, W. D., Howard, A. W., MacQueen, P. J., Fulton, B. J., Henry, G. W., Johnson, M. C., Kosiarek, M. R., et al., The Astronomical Journal,158,181 (2019) [DOI]

37. *Planetesimals around stars with TESS (PAST) - I. Transient dimming of a binary solar analogue at the end of the planet accretion era,* Gaidos, E., Jacobs, T., LaCourse, D., Vanderburg, A., Rappaport, S., Berger, T., Pearce, L., Mann, A. W., Weiss, L., Fulton, B., et al., Monthly Notices of the Royal Astronomical Society,488,4465 (2019) [DOI]

36. *Discovery of a White Dwarf Companion to HD 159062,* Hirsch, L. A., Ciardi, D. R., Howard, A. W., Marcy, G. W., Ruane, G., Gonzalez, E., Blunt, S., Crepp, J. R., Fulton, B. J., Isaacson, H., et al., The Astrophysical Journal,878,50 (2019) [DOI]

35. *A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS,* Huber, D., Chaplin, W. J., Chontos, A., Kjeldsen, H., Christensen-Dalsgaard, J., Bedding, T. R., Ball, W., Brahm, R., Espinoza, N., Henning, T., et al., The Astronomical Journal,157,245 (2019) [DOI]

34. *The California-Kepler Survey. VIII. Eccentricities of Kepler Planets and Tentative Evidence of a High-metallicity Preference for Small Eccentric Planets,* Mills, S. M., Howard, A. W., Petigura, E. A., Fulton, B. J., Isaacson, H., & Weiss, L. M., The Astronomical Journal,157,198 (2019) [DOI]

33. *Long-period Giant Companions to Three Compact, Multiplanet Systems,* Mills, S. M., Howard, A. W., Weiss, L. M., Steffen, J. H., Isaacson, H., Fulton, B. J., Petigura, E. A., Kosiarek, M. R., Hirsch, L. A., & Boisvert, J. H., The Astronomical Journal,157,145 (2019) [DOI]

32. *K2-291b: A Rocky Super-Earth in a 2.2 day Orbit,* Kosiarek, M. R., Blunt, S., López-Morales, M., Crossfield, I. J. M., Sinukoff, E., Petigura, E. A., Gonzales, E. J., Poretti, E., Malavolta, L., Howard, A. W., et al., The Astronomical Journal,157,116 (2019) [DOI]

31. *Bright Opportunities for Atmospheric Characterization of Small Planets: Masses and Radii of K2-3 b, c, and d and GJ3470 b from Radial Velocity Measurements and Spitzer Transits,* Kosiarek, M. R., Crossfield, I. J. M., Hardegree-Ullman, K. K., Livingston, J. H., Benneke, B., Henry, G. W., Howard, W. S., Berardo, D., Blunt, S., Fulton, B. J., et al., The Astronomical Journal,157,97 (2019) [DOI]

30. *Deep Exploration of Eridani with Keck Ms-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet,* Mawet, D., Hirsch, L., Lee, E. J., Ruffio, J.-B., Bottom, M., Fulton, B. J., Absil, O., Beichman, C., Bowler, B., Bryan, M., et al., The Astronomical Journal,157,33 (2019) [DOI]

29. *The California-Kepler Survey. VI. Kepler Multis and Singles Have Similar Planet and Stellar Properties Indicating a Common Origin,* Weiss, L. M., Isaacson, H. T., Marcy, G. W., Howard, A. W., Petigura, E. A., Fulton, B. J., Winn, J. N., Hirsch, L., Sinukoff, E., Rowe, J. F., et al., The Astronomical Journal,156,254 (2018) [DOI]

28. *Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. III. A High Mass and Low Envelope Fraction for the Warm Neptune K2-55b,* Dressing, C. D., Sinukoff, E., Fulton, B. J., Lopez, E. D., Beichman, C. A., Howard, A. W., Knutson, H. A., Werner, M., Benneke, B., Crossfield, I. J. M., et al., The Astronomical Journal,156,70 (2018) [DOI]

27. *HAT-P-11: Discovery of a Second Planet and a Clue to Understanding Exoplanet Obliquities,* Yee, S. W., Petigura, E. A., Fulton, B. J., Knutson, H. A., Batygin, K., Bakos, G. Á., Hartman, J. D., Hirsch, L. A., Howard, A. W., Isaacson, H., et al., The Astronomical Journal,155,255 (2018) [DOI]

26. *The California-Kepler Survey. IV. Metal-rich Stars Host a Greater Diversity of Planets,* Petigura, E. A., Marcy, G. W., Winn, J. N., Weiss, L. M., Fulton, B. J., Howard, A. W., Sinukoff, E., Isaacson, H., Morton, T. D., & Johnson, J. A., The Astronomical Journal,155,89 (2018) [DOI]

25. *The California-Kepler Survey. V. Peas in a Pod: Planets in a Kepler Multi-planet System Are Similar in Size and Regularly Spaced,* Weiss, L. M., Marcy, G. W., Petigura, E. A., Fulton, B. J., Howard, A. W., Winn, J. N., Isaacson, H. T., Morton, T. D., Hirsch, L. A., Sinukoff, E. J., et al., The Astronomical Journal,155,48 (2018) [DOI]

24. *Constraints on the Obliquities of Kepler Planet-hosting Stars,* Winn, J. N., Petigura, E. A., Morton, T. D., Weiss, L. M., Dai, F., Schlaufman, K. C., Howard, A. W., Isaacson, H., Marcy, G. W., Justesen, A. B., et al., The Astronomical Journal,154,270 (2017) [DOI]

23. *Seeing Double with K2: Testing Re-inflation with Two Remarkably Similar Planets around Red Giant Branch Stars,* Grunblatt, S. K., Huber, D., Gaidos, E., Lopez, E. D., Howard, A. W., Isaacson, H. T., Sinukoff, E., Vanderburg, A., Nofi, L., Yu, J., et al., The Astronomical Journal,154,254 (2017) [DOI]

22. *Three's Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets,* Christiansen, J. L., Vanderburg, A., Burt, J., Fulton, B. J., Batygin, K., Benneke, B., Brewer, J. M., Charbonneau, D., Ciardi, D. R., Collier Cameron, A., et al., The Astronomical Journal,154,122 (2017) [DOI]

21. *The California-Kepler Survey. III. A Gap in the Radius Distribution of Small Planets,* Fulton, B. J., Petigura, E. A., Howard, A. W., Isaacson, H., Marcy, G. W., Cargile, P. A., Hebb, L., Weiss, L. M., Johnson, J. A., Morton, T. D., et al., The Astronomical Journal,154,109 (2017) [DOI]

20. *The California-Kepler Survey. II. Precise Physical Properties of 2025 Kepler Planets and Their Host Stars,* Johnson, J. A., Petigura, E. A., Fulton, B. J., Marcy, G. W., Howard, A. W., Isaacson, H., Hebb, L., Cargile, P. A., Morton, T. D., Weiss, L. M., et al., The Astronomical Journal,154,108 (2017) [DOI]

19. *The California-Kepler Survey. I. High-resolution Spectroscopy of 1305 Stars Hosting Kepler Transiting Planets,* Petigura, E. A., Howard, A. W., Marcy, G. W., Johnson, J. A., Isaacson, H., Cargile, P. A., Hebb, L., Fulton, B. J., Weiss, L. M., Morton, T. D., et al., The Astronomical Journal,154,107 (2017) [DOI]

18. *K2-66b and K2-106b: Two Extremely Hot Sub-Neptune-size Planets with High Densities,* Sinukoff, E., Howard, A. W., Petigura, E. A., Fulton, B. J., Crossfield, I. J. M., Isaacson, H., Gonzales, E., Crepp, J. R., Brewer, J. M., Hirsch, L., et al., The Astronomical Journal,153,271 (2017) [DOI]

17. *New Insights on Planet Formation in WASP-47 from a Simultaneous Analysis of Radial Velocities and Transit Timing Variations,* Weiss, L. M., Deck, K. M., Sinukoff, E., Petigura,

E. A., Agol, E., Lee, E. J., Becker, J. C., Howard, A. W., Isaacson, H., Crossfield, I. J. M., et al., The Astronomical Journal,153,265 (2017) [DOI]

16. *KELT-18b: Puffy Planet, Hot Host, Probably Perturbed,* McLeod, K. K., Rodriguez, J. E., Oelkers, R. J., Collins, K. A., Bieryla, A., Fulton, B. J., Stassun, K. G., Gaudi, B. S., Penev, K., Stevens, D. J., et al., The Astronomical Journal,153,263 (2017) [DOI]

15. *Two Small Transiting Planets and a Possible Third Body Orbiting HD 106315,* Crossfield, I. J. M., Ciardi, D. R., Isaacson, H., Howard, A. W., Petigura, E. A., Weiss, L. M., Fulton, B. J., Sinukoff, E., Schlieder, J. E., Mawet, D., et al., The Astronomical Journal,153,255 (2017) [DOI]

14. *Four Sub-Saturns with Dissimilar Densities: Windows into Planetary Cores and Envelopes,* Petigura, E. A., Sinukoff, E., Lopez, E. D., Crossfield, I. J. M., Howard, A. W., Brewer, J. M., Fulton, B. J., Isaacson, H. T., Ciardi, D. R., Howell, S. B., et al., The Astronomical Journal,153,142 (2017) [DOI]

13. *Mass Constraints of the WASP-47 Planetary System from Radial Velocities,* Sinukoff, E., Howard, A. W., Petigura, E. A., Fulton, B. J., Isaacson, H., Weiss, L. M., Brewer, J. M., Hansen, B. M. S., Hirsch, L., Christiansen, J. L., et al., The Astronomical Journal,153,70 (2017) [DOI]

12. *Three Temperate Neptunes Orbiting Nearby Stars,* Fulton, B. J., Howard, A. W., Weiss, L. M., Sinukoff, E., Petigura, E. A., Isaacson, H., Hirsch, L., Marcy, G. W., Henry, G. W., Grunblatt, S. K., et al., The Astrophysical Journal,830,46 (2016) [DOI]

11. *197 Candidates and 104 Validated Planets in K2's First Five Fields,* Crossfield, I. J. M., Ciardi, D. R., Petigura, E. A., Sinukoff, E., Schlieder, J. E., Howard, A. W., Beichman, C. A., Isaacson, H., Dressing, C. D., Christiansen, J. L., et al., The Astrophysical Journal Supplements,226,7 (2016) [DOI]

10. *Revised Masses and Densities of the Planets around Kepler-10,* Weiss, L. M., Rogers, L. A., Isaacson, H. T., Agol, E., Marcy, G. W., Rowe, J. F., Kipping, D., Fulton, B. J., Lissauer, J. J., Howard, A. W., et al., The Astrophysical Journal,819,83 (2016) [DOI]

9. *A Low Stellar Obliquity for WASP-47, a Compact Multiplanet System with a Hot Jupiter and an Ultra-short Period Planet,* Sanchis-Ojeda, R., Winn, J. N., Dai, F., Howard, A. W., Isaacson, H., Marcy, G. W., Petigura, E., Sinukoff, E., Weiss, L., Albrecht, S., et al., The Astrophysical Journal Letters,812,L11 (2015) [DOI]

8. *Three Super-Earths Orbiting HD 7924,* Fulton, B. J., Weiss, L. M., Sinukoff, E., Isaacson, H., Howard, A. W., Marcy, G. W., Henry, G. W., Holden, B. P., & Kibrick, R. I., The Astrophysical Journal,805,175 (2015) [DOI]

7. *A Nearby M Star with Three Transiting Super-Earths Discovered by K2,* Crossfield, I. J. M., Petigura, E., Schlieder, J. E., Howard, A. W., Fulton, B. J., Aller, K. M., Ciardi, D. R., Lépine, S., Barclay, T., de Pater, I., et al., The Astrophysical Journal,804,10 (2015) [DOI]

6. *Time-Varying Potassium in High-Resolution Spectra of the Type Ia Supernova 2014j,* Graham, M. L., Valenti, S., Fulton, B. J., Weiss, L. M., Shen, K. J., Kelly, P. L., Zheng, W., Filippenko, A. V., Marcy, G. W., Howell, D. A., et al., The Astrophysical Journal,801,136 (2015) [DOI]

5. *Occurrence and core-envelope structure of 1-4× Earth-size planets around Sun-like stars,* Marcy, G. W., Weiss, L. M., Petigura, E. A., Isaacson, H., Howard, A. W., & Buchhave, L. A., Proceedings of the National Academy of Science,111,12655 (2014) [DOI]

4. *The Mass-Radius Relation for 65 Exoplanets Smaller than 4 Earth Radii,* Weiss, L. M., & Marcy, G. W., The Astrophysical Journal Letters,783,L6 (2014) [DOI]

3. *Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets,* Marcy, G. W., Isaacson, H., Howard, A. W., Rowe, J. F., Jenkins, J. M., Bryson, S. T., Latham, D. W., Howell, S. B., Gautier, T. N., Batalha, N. M., et al., The Astrophysical Journal Supplements,210,20 (2014) [DOI]

2. *The Mass of KOI-94d and a Relation for Planet Radius, Mass, and Incident Flux,* Weiss, L. M., Marcy, G. W., Rowe, J. F., Howard, A. W., Isaacson, H., Fortney, J. J., Miller, N., Demory, B.-O., Fischer, D. A., Adams, E. R., et al., The Astrophysical Journal,768,14 (2013) [DOI]

1. *Monitoring Hα Emission and Continuum of UXORs: RR Tauri,* Bedell, M., Villaume, A., Weiss, L., Sliski, D., Strelnitski, V., Walker, G., Williams, J., Henden, A., & Krajci, T., The Astronomical Journal,142,164 (2011) [DOI]

Dissertations

4. *The Masses and Orbital Dynamics of Exoplanets*, Ph.D. Thesis 2016
   University of California, Berkeley, advisors G. Marcy, A. Howard

3. *Young, Low-Mass Stars and their Companions in NGC 2362,* M. Phil. Thesis 2011
   University of Cambridge, advisor S. Hodgkin

2. *Exploring Exoplanets*, Senior Thesis 2010
   Harvard University, advisor D. Charbonneau

1. *Searching for Dark Matter beyond the WMAP Haze*, Junior Thesis 2009
   Harvard University, advisor D. Finkbeiner

TALKS & COLLOQUIA (SELECTED)

Protostars and Planets VII, Kyoto, Japan *(invited chapter)*	2023
American Astronomical Society 241, Seattle, WA	2023
Committee on Space Research Scientific Meeting, Athens, Greece (*invited*, virtual)	2022
Cooperative Institute for Dynamic Earth Research, Santa Barbara, CA (*invited lecture*)	2022
Astronomy Colloquium, California Institute of Technology, Pasadena, CA	2022
Astronomy Colloquium, University of Goettingen, Goettingen, Germany (Virtual)	2021
Physics Colloquium, University of Notre Dame, South Bend, IN (Virtual)	2021
Astrophysics Colloquium, U. Wisconsin-Madison, Madison, WI (Virtual)	2021
Astrophysics Colloquium, MIT, Cambridge, MA (Virtual)	2021
American Astronomical Society 237, TESS Atmospheres Special Session (Virtual)	2021
American Astronomical Society 237, Exoplanets I Session (Virtual)	2021
Physics Colloquium, Universidad Adolfo Ibáñez, Santiago, Chile (Virtual)	2020
Physics Colloquium, Tsung-Dao Lee Institute, Shanghai, China (Virtual)	2020
PLATO Exoplanet Science Meeting (Virtual)	2020
KITP ExoStars Redux Meeting, Santa Barbara, CA (*invited*, virtual)	2020
TESS Science Team Meeting #23 (Virtual)	2020
Exoplanet Demographics, Pasadena, CA *(invited review)*	2020
American Astronomical Society 235, Honolulu, HI	2020
Physics Colloquium, University of Michigan, Ann Arbor, MI	2019
AAS Division of Planetary Science, Geneva, Switzerland	2019
Disks2Planets, Ringberg Castle, Germany *(invited)*	2019
Extreme Solar Systems IV, Reykjavik, Iceland	2019
Physics Colloquium, University of Hawaii at Mānoa, Honolulu, HI	2019
Kepler Science Conference V, Glendale, CA *(invited review)*	2019
Geophysics Colloquium, University Hawaii at Mānoa, Honolulu, HI	2018

Keck Science Meeting, Pasadena, CA 2018
Exoplanets II, Cambridge, UK 2018
Physics & Astronomy Colloquium, University of Rochester, Rochester, NY 2018
Astronomy Colloquium, University of California, Los Angeles, CA 2018
Astronomy Colloquium, Université de Montréal, QC, Canada 2018
Astronomy Colloquium, Queen's University, Kingston, Ontario, Canada 2018
Exoplanet Formation, Shanghai, China *(invited)* 2017
Planet Formation around the Snowline, Toyko, Japan *(invited)* 2017
Physics & Astronomy Colloquium, University of Rochester, Rochester, NY 2017
Formation and Dynamics of Exoplanets, Aspen, CO 2017
Exoplanets I, Davos, Switzerland 2016
Center for Integrative Planetary Science, UC Berkeley, CA 2016
Symposium for Habitability, University of Bern, Switzerland *(invited)* 2016
Keck Science Meeting, Los Angeles, CA 2015
From Super-Earths to Brown Dwarfs: Who's Who? Paris, France 2015
Extreme Solar Systems III, Waikoloa, HI 2015
American Astronomical Society 225, Seattle, WA 2015
Towards Other Earths II, Porto, Portugal, 2014
American Astronomical Society 223, National Harbor, MD 2014
Planet Validation Workshop, Marseille, France 2013
Exoplanets in Multi-body Systems in the Kepler Era, Aspen, CO 2013
American Astronomical Society 221, Long Beach, CA 2013

OBSERVING EXPERIENCE

W. M. Keck Observatory > 160 nights
Automated Planet Finder > 300 nights

SCIENTIFIC ADVISING

Postdoctoral
Dr. Matthias Yang He, U. Notre Dame Aug. 2022-present
Graduate
Coleman (Alex) Thomas, U. Notre Dame June 2022-present
David Shaw, U. Notre Dame Jan. 2022-present
Jingwen Zhang, NASA FINESST Graduate Fellow, U. Hawai'i, *PhD thesis* 2020-present
Casey Brinkman, NSF Graduate Research Fellow, U. Hawai'i, *PhD thesis* 2019-present
Jack Lubin, UC Irvine 2020-2022
Emma Turtelboom, UC Berkeley 2020-2022
Sarah Blunt, Caltech 2018-2019
Undergraduate & High School
Aaron Householder, NSF REU Fellow (at Notre Dame), Yale 2022-present
Andrew Langford, U. Notre Dame, *honors senior thesis* 2021-present
Laura Daclison, Maunakea Scholar, Waipahu High School, Waipahu, HI 2018-2019
Thomas Vandal, Trottier Summer Fellow, U. Montréal 2018
Merrin Peterson, Trottier Summer Fellow, McGill University 2017

SERVICE

Scientific Organizing Committee for Extreme Solar Systems V, Christchurch, New Zealand 2024
Instructor of Record for the Galvin Scholars Program 2023
Serving Pell-grant eligible and first-generation college students in building academic community
NASA Hubble Time Allocation Committee external reviewer 2023
NASA Hubble Postdoctoral Fellowship panel reviewer 2022-2023

Origins, U. Notre Dame 2021-present
Selected for development for MSCA, Provost's Office 2021
Incorporated into Notre Dame IAS theme "The Long Run" 2023-2024
Dept. of Physics & Astronomy Committees:
Graduate Recruitment 2022-2023
Outreach 2022-2023
Colloquium 2021-2022
W. M. Keck Observatory Science Strategic Planning Meeting, Pasadena 2021
15-year visioning for the future of Keck Observatory and Maunakea
Reviewer for Swiss National Science Foundation 2021
University of Hawaii/IfA Telescope Allocation Panel Member 2019-2020
NSF NOAO/NOIRLab Telescope Allocation Panel Member 2018-2020
NASA ADAP Panel Member & Chair 2018
NASA ADAP Panel Member 2017
Referee for: Science Advances, Nature Astronomy, The Astronomical Journal, The Astrophysical Journal, The Astrophysical Journal Letters, Astronomy & Astrophysics 2014-present

POPULAR PRESS

Author for *Scientific American*
"Our Solar System is Even Stranger than We Thought," 70,000+ Views 2018
Scientific Press Releases:
"A Rocky Planet around one of our Galaxy's Oldest Stars" 2021
"Newly Discovered Exoplanet Dethrones Former King of the Kepler-88 System" 2020
"Planets around Other Stars are like Peas in a Pod" 2018
Inaugural Chair of the Editorial Board & Author for astrobites 2011-2013
Co-Host & Sound Editor of The Astropod, 2010-2011
the official astronomy podcast of the University of Cambridge

BROADER IMPACTS (SELECTED)

Science Consultant for Dramatic Play "Silent Sky" 2022
South Bend Civic Theater, South Bend, IN
QuarkNet High School Teacher Mentoring, South Bend, IN 2022
Public Star Parties & Outreach Events, 5000+ cumulative attendees 2006-present
Michigan Dark Sky Party 2022
AAS Star Party on the Beach, 1000+ visitors, Honolulu, HI 2020
Institute for Astronomy Mānoa Open House, 1000+ visitors, Honolulu, HI 2019
Astronomy on Tap, Montréal, Canada 2017
Star Party Guide, University of Cambridge, Cambridge, UK, 1000+ visitors 2010-2011
Star Tour Guide, Maria Mitchell Observatory, Nantucket, MA, 1500+ visitors 2008
Public Lectures
Notre Dame *Scientia* "Talk Science" Seminar 2021
NASA Universe of Learning Seminar (virtual) 2021
Guest Lecture, W. M. Keck Observatory, Waimea, HI (virtual) 2020
Guest Lecture, Punahou High School, Honolulu, HI 2019
Public Lecture, McGill University, Montréal, Canada 2018
Guest Lecture, Box, Inc., Redwood City, CA 2017
Public Lecture, Université de Montréal, Montréal, Canada 2017
Public Lecture, UC Berkeley, Berkeley, CA 2016
Public Lecture, Bay Area Science Festival, Berkeley, CA 2014
Diversity, Equity & Inclusion
Future Faculty Panel, University of Notre Dame 2022

Maunakea Scholars Mentor, Honolulu, HI 2018-2019
Girl Scouts of America Star Party, Honolulu, HI 2018
American Assoc. of University Women Expanding Your Horizons, Saint Mary's College, CA 2016
Girl Scouts of America Star Party, Rochester, NY 2006
Leadership of the Student Astronomers at Harvard/Radcliffe, Cambridge, MA 2007-2010

LANGUAGES

English (fluent)
Spanish (conversational)
French (conversational)

PROFESSIONAL REFERENCES

1. **Andrew Howard**, Professor
   ahoward@caltech.edu
   California Institute of Technology, Pasadena, CA USA
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   jnwinn@princeton.edu
   Princeton University, Princeton, NJ USA
4. **Alexei Filippenko**, Professor
   alex@astro.berkeley.edu
   University of California at Berkeley, Berkeley, CA USA