Laura Kreidberg

Curriculum vitae (August 23, 2021)

Appointments	
Director, APEx Department, Max Planck Institute for Astronomy	2020 - present
Clay Fellow, Harvard-Smithsonian Center for Astrophysics	2019 - 2020
Junior Fellow, Society of Fellows, Harvard University	2016 - 2019
ITC Fellow, Harvard University	2016 - 2019
Education	
University of Chicago, Ph.D. Astronomy and Astrophysics	2016
Yale University, B.S. Physics and Astronomy, with distinction	2011
Selected Awards	
Annie Jump Cannon Award, American Astronomical Society	2021
Paul Hertelendy (pH) Lecturer, Harvard-Smithsonian Center for Astrophysics	2018
International Astronomical Union Division F PhD Prize	2017
William Rainey Harper Dissertation Fellowship, University of Chicago	2015
Peter B. Wagner Memorial Award for Women in Atmospheric Sciences	2015
National Science Foundation Graduate Research Fellowship	2013 - 2016
George Beckwith Prize for excellence in astronomy, Yale Astronomy Department	2011
Collaboration Leadership Roles	
Founding Director of the MPIA APEx Department, responsibilities include: • shaping the scientific direction and research goals of a new department	
• hiring 5 permanent research staff members and 15 junior scientists	2020 - present
Principle Investigator for 12 observing programs on <i>JWST</i> . <i>Hubble</i> , and <i>Snitzer</i>	2014 - present
Science Council member: <i>JWST</i> Transiting Exoplanet ERS Program	2016 - present
Phase curve working group co-lead; ARIEL Mission	2017 - present
Science Team member and exoplanet science case co-lead, ELT/METIS	2020 - present
Co-Investigator for the VLT/GRAVITY+ instrument upgrade	2020 - present
CARMENES Science Coordination Team member	2020 - present
Selected Service Activities	
Science Organizing Committee for multiple conferences, including Exoplanets III, CHEOPS Workshop, Cloud9Con	2018 - present
Member, HST-TESS Advisory Committee (constituted by the STScI director)	2018 - 2019
Panel member and reviewer for Hubble and Spitzer observing proposals	2018 - present
Reviewer for funding proposals, including NASA XRP, NESSF Fellowship, ERC Consolidator Grants	2016 - present
Referee for ApJ, AJ, ApJL, MNRAS, Nature. Nature Astronomy	2015 - present
Member, TESS Atmosphere Characterization Working Group	2018 - present

Advising

- Current advisor to Sebastian Zieba (graduate student) and Jason Dittmann (postdoctoral researcher)
- Past advisor to four graduate students on independent research projects (Hannah Diamond-Lowe, Tom Louden, George McDonald, and Lily Zhao)

Talks and Outreach

over 50 invited seminars and colloquia since 2015

frequent public speaker, including the American Museum of Natural History Frontiers Lecture (2020), Radcliffe Symposium: "The Undiscovered" (2018)

Representative Publications

refereed: 73 / first author: 13 / citations: 4893 / h-index: 37 (2021-07-26)

- ⁵ Colón, Knicole D.; Kreidberg, Laura; Welbanks, Luis; Line, Michael R.; et al., 2020, An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Suggestive of a Subsolar Water Abundance, AJ, 160, 280 (arXiv:2005.05153) [8 citations]
- ⁴ Kreidberg, Laura; Koll, Daniel D. B.; Morley, Caroline; Hu, Renyu; et al., 2019, Absence of a thick atmosphere on the terrestrial exoplanet LHS 3844b, Nature, 573, 87 (arXiv:1908.06834) [56 citations]
- ³ Kreidberg, Laura; Line, Michael R.; Parmentier, Vivien; Stevenson, Kevin B.; et al., 2018, Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from HST and Spitzer Phase Curve Observations, AJ, 156, 17 (arXiv:1805.00029) [99 citations]
- ² Morley, Caroline V.; Kreidberg, Laura; Rustamkulov, Zafar; Robinson, Tyler; & Fortney, Jonathan J., 2017, *Observing the Atmospheres of Known Temperate Earth-sized Planets with JWST*, ApJ, 850, 121 (arXiv:1708.04239) [131 citations]
- Kreidberg, Laura; Bean, Jacob L.; Désert, Jean-Michel; Benneke, Björn; *et al.*, 2014, *Clouds in the atmosphere of the super-Earth exoplanet GJ1214b*, Nature, **505**, 69 (arXiv:1401.0022) [499 citations]