## Laura Kreidberg

Curriculum vitae (April 23, 2024)

E-mail: kreidberg@mpia.de http://www.mpia.de/en/apex

Appointments	
Director, APEx Department, Max Planck Institute for Astronomy	2020 - present
Honarary Professor, Heidelberg University	2023 - present
Honarary Professor, Leiden University	2022 - 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:	
<ul> <li>shaping the scientific direction and research goals of a new department</li> </ul>	
<ul> <li>hiring 5 permanent research staff members and 15 junior scientists</li> </ul>	2020 - present
Principal Investigator for observing programs on JWST, Hubble, and Spitzer	2014 - present
Steering Committee and Science Team member, ELT/ANDES instrument	2021 - present
Science Team member and exoplanet science case co-lead, ELT/METIS	2020 - present
Co-Investigator for the VLT/GRAVITY+ instrument upgrade	2020 - present
Selected Service Activities	
Science Organizing Committee for multiple conferences,	
including Exoplanets, Exoclimes, Two HoRSeS, Sagan Summer Workshop	2018 - present
Member, STScI Strategy Committees (constituted by the STScI director)	2018, 2023
Panel member and reviewer for JWST, Hubble, 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 - 2022
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## **Advising**

Current advisor to Sebastian Zieba (graduate student), Kim Angelique Kahle (graduate student), and Lorena Acuna (postdoctoral researcher)

Past advisor to graduate students on independent research projects (Hannah Diamond-Lowe, Tom Louden, George McDonald, and Lily Zhao) and postdocs (Jason Dittmann, Maria Steinrueck)

## **Talks and Outreach**

over 50 invited seminars and colloquia since 2015

frequent public speaker, including the Oxford Hintze Lecture (2023), American Museum of Natural History Frontiers Lecture (2020), Radcliffe Symposium: "The Undiscovered" (2018)

## **Representative Publications**

refereed: 129 / first author: 14 / citations: 10069 / h-index: 55 (2024-04-23)

- 23 Zieba, Sebastian; Kreidberg, Laura; Ducrot, Elsa; Gillon, Michaël; et al., 2023, No thick carbon dioxide atmosphere on the rocky exoplanet TRAPPIST-1 c, Nature, 620, 746 (arXiv:2306.10150) [34 citations]
- <sup>2</sup> **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) [143 citations]
- Wordsworth, Robin; & **Kreidberg, Laura**, 2022, *Atmospheres of Rocky Exoplanets*, Annual Review of Astronomy and Astrophysics, **60**, 159 (arXiv:2112.04663) [44 citations]
- 4 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) [170 citations]
- <sup>5</sup> **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) [701 citations]