

CURRICULUM VITAE

Jonathan J. Fortney

OFFICE ADDRESS:

Department of Astronomy & Astrophysics
University of California, Santa Cruz
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Santa Cruz, CA 95064

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CURRENT POSITION:

July 2015-present:

Professor, Department of Astronomy & Astrophysics, University of California, Santa Cruz
Director, Other Worlds Laboratory (OWL)

PREVIOUS RESEARCH POSITIONS:

July 2011-June 2015, Associate Professor, Department of Astronomy and Astrophysics,
University of California, Santa Cruz
January 2008-June 2011, Assistant Professor, Department of Astronomy and Astrophysics,
University of California, Santa Cruz

POSTDOCTORAL POSITIONS:

August 2006-December 2007, *Spitzer* Fellow, NASA Ames Research Center and Principal
Investigator, Carl Sagan Center, the SETI Institute, Advisor: Mark S. Marley
March 2004-July 2006, National Research Council (NRC) Postdoctoral Fellow, NASA Ames
Research Center, Advisor: Mark S. Marley

EDUCATION:

2004 – Ph.D., Planetary Sciences, University of Arizona
Dissertation Title: “The Evolution of Giant Planets,” Advisor: William B. Hubbard
1999 – B.S., Physics, Iowa State University, with Distinction and Honors Program

MAJOR FIELDS OF INTEREST:

Atmospheres and spectra of rocky and gas giant exoplanets, super Earth and giant planet
thermal evolution, planetary interiors, exoplanet characterization through transit photometry
and direct imaging, formation of giant planets, atmospheres and evolution of low mass stars
and brown dwarfs, stellar abundances

HONORS and AWARDS:

2021, Simons Investigator in Astrophysics
2020, Paolo Farinella Prize
2018, National Finalist, Blavatnik Award for Young Scientists
2017, Ahrens Lecture, Geologic and Planetary Sciences, California Institute of Technology
2016, Yuval Ne’eman Distinguished Lectures in Geophysics, Atmospheric, and Space
Sciences, Tel Aviv University
2015, 2013, 2008, Kavli Fellow, National Academy of Sciences
2010, Urey Prize, American Astronomical Society, Division for Planetary Sciences
2010, Alfred P. Sloan Research Fellowship

2006, NASA Early Career Fellowship in Planetary Sciences

COLLOQUIA and SEMINARS:

- NASA Jet Propulsion Laboratory, 5/2020
- Harvard/Smithsonian Center for Astrophysics, 3/2020
- Leiden Observatory, 1/2020
- University of Amsterdam, Department of Astronomy, 1/2020
- University of Texas, Department of Astronomy, 10/2019
- NASA Ames Research Center, Space Science Division, 5/2019
- Stanford University, KIPAC, 2/2019
- NASA Goddard, Astrophysics Science Division, 11/2018
- University of Maryland, Department of Astronomy, 11/2018
- ETH-Zurich, 9/2018
- University of Zurich, Department of Physics, 9/2018
- Geneva Observatory, 8/2018
- University of Bern, Center for Exoplanets and Habitable Worlds, 8/18
- Canadian Institute for Theoretical Astrophysics (CITA), 5/2018
- UCLA, Department of Earth, Planetary, and Space Sciences, 5/2018
- UCLA, Astronomy Division, 5/2018
- Georgia Tech, Department of Earth and Planetary Sciences, 1/2018
- California Institute of Technology, Geologic and Planetary Sciences Division, 11/17
- Boston University, Center for Space Physics, 2/2017
- Harvard-Smithsonian Center for Astrophysics, SSP Division, 2/2017
- Tel Aviv University, Dept. of Geophysics, Atmospheric, and Space Sciences, 12/2016
- NASA Nexus for Exoplanet Systems Science (NExSS), 10/2016
- University of Nevada, Las Vegas, Department of Physics and Astronomy, 9/2016
- NASA Jet Propulsion Laboratory, 5/2016
- California Institute of Technology, Department of Astronomy, 5/2016
- MIT, Department of Earth, Atmospheric, and Planetary Sciences, 4/2016
- Harvard-Smithsonian CfA, Division of Solar, Stellar, and Planetary Science, 4/2016
- SOFIA Science Center, NASA Ames Research Center, 11/2015
- Johns Hopkins University, Department of Physics and Astronomy, 4/2015
- University of Toronto, Centre for Planetary Sciences, 1/2015
- University of Chicago, Department of Geophysical Sciences, 8/2014
- University of Washington, Astrobiology Program, 5/2014
- McMaster University, Origins Institute, 1/2014
- Wartburg College, Department of Physics, 9/2013
- Grinnell College, Department of Physics, 9/2013
- Iowa State University, Department of Physics and Astronomy, 9/2013
- California Polytechnic State University, Department of Physics, 4/2013
- The SETI Institute, 4/2013
- California Institute of Technology, Division of Geological and Planetary Sciences, 3/2013
- Institute for Advanced Study, 11/2012
- University of Arizona, Theoretical Astrophysics Program, 4/2012
- McGill University, Department of Physics, 2/2012
- Yale University, Department of Astronomy, 11/2011
- Yale University, Department of Geology & Geophysics, 11/2011

- University of Washington, Department of Astronomy, 10/2011
- IAP, Paris, 9/2011
- Cambridge University, Institute of Astronomy, 9/2011
- Fermilab, 6/2011
- California Institute of Technology, Division of Geological and Planetary Sciences, 4/2011
- University of Central Florida, Department of Physics, 4/2011
- University of Florida, Department of Astronomy, 4/2011
- Space Telescope Science Institute, 3/2011
- University of Colorado, Department of Astrophysical and Planetary Sciences, 2/2011
- Cornell University, Department of Astronomy, 4/2010
- Arizona State University, School of Earth and Space Exploration, 3/2010
- University of Minnesota, Department of Astronomy, 3/2010
- University of Arizona, Department of Planetary Sciences, 2/2010
- Harvard-Smithsonian CfA, Institute for Theory and Computation, 2/2010
- Texas A&M University, Department of Physics & Astronomy, 12/2009
- Sonoma State University, Department of Physics, 11/2009
- UCLA, Institute for Geophysics and Planetary Physics, 5/2009
- University of Hawaii, Astrobiology Institute, 3/2009
- University of Arizona, Department of Planetary Sciences, 2/2009
- University of California, Santa Cruz, Department of Earth & Planetary Sciences, 11/2008
- Ohio State University, Department of Astronomy, 10/2008
- University of Virginia, Department of Astronomy, 2/2008
- Michigan State University, Department of Physics & Astronomy, 9/2007
- Carnegie Institution of Washington, Department of Terrestrial Magnetism, 3/2007
- University of California, Berkeley, Center for Integrative Planetary Science, 3/2007
- University of California, Santa Cruz, Department of Astronomy & Astrophysics, 1/2007
- University of California, Santa Cruz, Department of Astronomy & Astrophysics, 11/2006
- Lawrence Livermore National Laboratory, Inst. for Geophys. & Planetary Phys., 10/2006
- The SETI Institute, 8/2006
- Harvard University, Department of Earth and Planetary Sciences, 3/2006
- MIT, Department of Earth, Atmospheric, and Planetary Sciences, 2/2006
- University of British Columbia, Department of Physics and Astronomy, 2/2006
- University of Florida, Department of Astronomy, 1/2006
- San Francisco State University, Department of Physics and Astronomy, 11/2005
- Harvard-Smithsonian CfA, Division of Solar, Stellar, and Planetary Science, 9/2005
- NASA Ames Research Center, Space Science and Astrobiology Division 4/2005
- UCLA, Institute for Geophysics and Planetary Physics, 2/2005
- SOFIA Science Center, NASA Ames, 10/2004
- Observatoire de la Cote d'Azur, Nice, France, 4/2004
- American Museum of Natural History, Astronomy and Astrophysics Division, 9/2003
- NASA Ames Research Center, Space Science and Astrobiology Division, 11/2002
- Lawrence Livermore National Laboratory, 11/2002

INVITED CONFERENCE TALKS:

- Planets, Exoplanets and Their Systems in a Broad and Multidisciplinary Context, 2021, Hot Atmospheres and Interior Structure

- Europlanet Science Congress, 2020, Giant Planets: The Era of New Insights Both Near and Far
- ESO Cosmic Duologs, 2020, Exoplanetary Atmospheres
- Future Exploration of the Ice Giants, 2020, Interior Structure and Energy Balance of Uranus and Neptune, 2020
- 51 Pegasi b Science Summit, 2019, The Next Decade of Exoplanets
- Exoplanet Exploration Program Analysis Group (ExoPAG), 2019. Laboratory Needs for Exoplanetary Atmospheres
- National Academy of Sciences, Chemistry Roundtable, 2018, Laboratory Needs for Exoplanetary Atmospheres
- 51 Pegasi b Science Summit, 2018, The Future of Giant Planet Science
- Astrophysical Frontiers in the Next Decade and Beyond, 2018, Exoplanet Atmospheres
- Exoplanets and Planet Formation (Shanghai), 2017, Structure of Giant Exoplanets
- MESA Summer School, 2017, Thermal Evolution of Giant Planets
- Advanced School on Exoplanetary Science, 2017, Exoplanetary Atmospheres
- High Energy Density Laboratory Astrophysics, 2016, Interiors of Giant Planets
- Exoplanets in the Era of Extremely Large Telescopes, 2016. Planetary Thermal Evolution
- Opportunity M: Small Planets around Small Stars, 2016. How Theorists Model Clouds & Hazes in Exo-Atmospheres
- High Energy Density Laboratory Astrophysics, Nine, 2016. Interior Structure of Planets
- Planetary Systems: A Synergistic View, 2015. Understanding Giant Planets from Exoplanet Spectra
- In the Spirit of Lyot, 2015. Exoplanet Atmospheres
- Physics of Exoplanets: From Earth-sized to Mini-Neptunes, 2015. Atmospheres and Interiors of Sub-Neptune Planets
- Exoplanets with JWST-MIRI, 2014. Planetary Atmosphere Modeling
- Saturn in the 21st Century, 2014. Interior Structure of Saturn
- Sagan Exoplanet Summer Workshop, 2014. Thermal Evolution of Giant & Rocky Planets
- Goldschmidt Conference, 2014, Exoplanet Atmospheres
- Exoclimates III: The Diversity of Planetary Atmospheres, 2014. Model Exoplanet Spectra
- Transiting Planets and JWST Workshop, 2014. Atmosphere of Gas Giant Planets
- Protostars and Planets VI, 2013. Interior Structure of Planets
- International Astronomical Union Symposium #299, 2013. Highlights of Exoplanet Characterization
- Exoplanet Exploration Program Analysis Group (ExoPAG) 6, 2012. Characterizing Transiting Planet Atmospheres: A Modeling Perspective
- Physics of Non-Ideal Plasmas 14, 2012. The Structure of Giant Planets
- Sagan Exoplanet Summer Workshop, 2012. Giant Planet Interiors
- The Origins of Stars and Their Planetary Systems, 2012. The Structure of Transiting Planets
- Exploring Giant Planets at the National Ignition Facility (NIF), 2011. Interior Structure of Exoplanets
- International Workshop on Warm Dense Matter, 2011. Interior Structure and Evolution of Giant Planets
- Exploring Strange New Worlds, 2011. Atmospheres of Earths and Super Earths
- 7th International School of Planetary Sciences, 2011. Structure and Evolution of Giant Planets

- Exploring Giant Planets at the National Ignition Facility (NIF), 2010. Exoplanets and Hydrogen and Helium Under High Pressure
- Division for Planetary Sciences of the AAS, 2010. Urey Prize Lecture: Characterizing Exoplanet Atmospheres
- Exoclimates: Exploring the Diversity of Planetary Atmospheres, 2010. Exoplanet Model Atmospheres Confronted with Data
- Sagan Exoplanet Summer Workshop: Stars as Homes for Habitable Planetary Systems, 2010. Planetary Interiors
- Sagan Exoplanet Summer Workshop: Planetary Atmospheres, 2009. Orbital Phase Observations of Exoplanets
- Sagan Exoplanet Summer Workshop: Planetary Atmospheres, 2009. The Warm Spitzer Mission
- Sagan Exoplanet Summer Workshop: Planetary Atmospheres, 2009. The Kepler Mission
- Kavli Frontiers of Science, National Academy of Sciences, 2008. Characterizing Planets around Other Stars
- ISSI Workshop on Planetary Magnetism, 2008. The Structure of Jupiter, Saturn, and Extrasolar Giant Planets
- LANL and LLNL Astrophysics Initiative Workshop, 2008. The Structure, Formation, and Evolution of Giant Planets
- Michelson Summer Workshop—Planetary Transits: Detection to Characterization, 2007. Mass-Radius Relations for Giant Planets
- Extreme Solar Systems, 2007. The Impact of Transit Observations on Planetary Physics
- American Astronomical Society, May, 2007. Luminosity and Detectability of Young Giant Planets
- University of Tokyo Workshop on Development of Extra-solar Planetary Science, 2006. On the Luminosity of Young Jupiters
- High Energy Density Laboratory Astrophysics, Six, 2006. High Pressure Equations of State and the Structure of Jupiter, Saturn, and Exoplanets
- Ultra Low-Mass Star Formation and Evolution, 2005. Young Jupiters are Faint: New Models of the Early Evolution of Giant Planets

OTHER CONFERENCE TALKS:

- American Astronomical Society, 2021
- American Astronomical Society – Division for Planetary Sciences Meeting #52, 2020
- ARIEL Consortium Meeting, 2020
- Chesapeake Bay Area Exoplanets Meeting, 2020
- ARIEL Consortium Meeting, 2020
- Exoclimates 5, 2019
- High Resolution Spectroscopy for Exoplanet Atmospheres, 2018
- American Astronomical Society – Division for Planetary Sciences Meeting #49, 2017
- Exoclimates 4, 2016
- American Astronomical Society – Division for Planetary Sciences Meeting #44, 2012
- Exoclimates 2, 2012
- Kepler Science Conference, 2011.
- American Astronomical Society – Division for Planetary Sciences Meeting #42, 2010
- American Astronomical Society – Division for Planetary Sciences Meeting #40, 2008

- IAU Symposium #253: Transiting Planets, 2008
- Spirit of Lyot, Berkeley, 2007
- Cool Stars 14, 2006
- Transiting Extrasolar Planets Workshop, 2006
- IAU Colloquium #200, Direct Imaging of Extrasolar Planets, 2005
- American Astronomical Society – Division for Planetary Sciences Meeting #37, 2005
- Tenth Anniversary of 51 Peg b: Status and Prospects for Hot Jupiter Studies, 2005
- Aspen Winter Conference on Astrophysics: Planet Formation and Detection, 2005
- European Geosciences Union, 2004
- American Astronomical Society – Division for Planetary Sciences Meeting #35, 2003
- American Astronomical Society - Division for Planetary Sciences Meeting #34, 2002

SERVICE:

Member, Steering Committee, Astro2020 Decadal Survey, 2019-
 Member, NASA *Juno* Mission Interiors Working Group, 2019-
 Director, OWL Exoplanet Summer Program, UC Santa Cruz, 2017, 2018, 2019-
 Member, NASA Neptune-Odyssey Mission Study Team, 2019-2020
 Founding Member, NASA Nexus for Exoplanet Systems Science (NExSS), 2015-
 Member, Gemini Planet Imager (GPI) Exoplanet Survey Science Team, 2009-2020
 Scientific Organizing Committee, Towards Other Earths 3, 2020
 Member, NASA Astrophysics Division Senior Review, 2019
 Organizer, AAS Splinter Session, Biosignatures in the 2030s and Beyond, 1/2019
 Member, NASA Science and Technology Definition Team (STDT) for the Origins Space
 Telescope, 2018-19
 Scientific Director, Kavli Summer Program in Astrophysics: Exoplanetary Atmospheres, 2016
 Member, NASA *Cassini* Mission Science Team, 2016-2019
 Scientific Organizing Committee, Landscape of Precision Radial Velocity, 2018
 Member, NASA Science Definition Team (SDT) for future Ice Giant space missions, 2015-17
Kepler Mission Collaborator, 2011-2017
 Member, Hubble Space Telescope Exoplanet Advisory Committee, 2015-16
 Member, Keck Telescope Strategic Planning Committee, Exoplanets Panel, 2015-16
 Astronomy Department Undergraduate Curriculum Committee, 2008-
 Chair, 2012-
 Scientific Organizing Committee, Exoeclipse, 2017
 Scientific Organizing Committee, Linking Exoplanet and Disk Compositions, 2016
 Scientific Organizing Committee, Exoclimates 4, 2016
 Scientific Organizing Committee, High Energy Density Laboratory Astrophysics (HEDLA),
 2016
 Scientific Organizing Committee, AAS Division for Planetary Sciences, Annual Meeting,
 2013, 2015
 Chair, Faculty Search Committee, Astronomy & Astrophysics, 2014-15
 NOAO Telescopes TAC, 2013-2015
 Member, Executive Committee of the NASA Exoplanet Exploration Program Analysis Group
 (ExoPAG), 2012-2015
 UCSC Physical and Biological Sciences, TA Committee, 2013-2014
 UCSC Physical and Biological Sciences, Undergrad Research Awards Committee, 2013-2015
 Scientific Organizing Committee, Exoplanets with JWST-MIRI, 2014

Scientific Organizing Committee, Sagan Summer Workshop, 2014
 Scientific Organizing Committee, Second Kepler Science Conference, 2013
 NASA *Kepler* Participating Scientists Program, Review Panel Chair, 2013
 Referee for: Science, Nature, Astrophysical Journal, Astronomical Journal, Astronomy and
 Astrophysics, MNRAS, Icarus, Astronomical Notes, Nature Geosciences, Nature
 Astronomy, Nature Communications, Physical Review, Publications of the Astronomical
 Society of the Pacific, Computer Physics Communications
 Member, *Kepler* Mission Science Team, 2008-2011
 Keck Telescope, NASA Time Allocation Committee, 2007-2010
 Head of Exoplanets TAC, 2008-2009
Spitzer Space Telescope Time Allocation Committee, Galactic Panel, 2007, 2010, 2013
 Graduate Admissions Committee, 2008-2011
 Graduate Advising Committee, 2011-12, 2013-14
 Faculty Search Committee, Department of Earth & Planetary Sciences, 2008-09, 2013-14,
 2015-16
 NSF Astronomy & Astrophysics Panel, 2009, 2013
 NASA Space Interferometry Mission (SIM) Science Studies, Planets & “Super” Panels, 2008
 UC Santa Cruz, Dept. of Astronomy & Astrophysics, Colloquium Comm., 2008, 2011, 2012,
 2013, 2015
 Scientific Organizing Committee, High Energy Density Physics (HEDP) 1 / High Energy
 Density Laboratory Astrophysics (HEDLA) 8, 2008
 Local Organizing Committee, Navigator Program Forum, 2007

PROFESSIONAL AFFILIATIONS:

American Astronomical Society
 AAS Division for Planetary Sciences,
 American Geophysical Union

CLASSES TAUGHT:

Ay3 Planetary Systems (introductory undergraduate level)
Ay8 Exploring the Universe with Astronomical Data (introductory undergraduate level)
Ay9, Introduction to Research in Physics and Astrophysics (introductory undergraduate level)
Ay112 Physics of Stars (advanced undergraduate level)
Ay118 Physics of Planetary Systems (advanced undergraduate level)
Ay220A Stellar Structure and Evolution (grad level)
Ay223 Planetary Physics (graduate level)

STUDENTS SUPERVISED:

Sagnick Mukherjee, Graduate Student, 2020-
 Yao Tang, Graduate Student, 2020-
 Linfeng Wan, Graduate Student, 2019-
 Maggie Thompson, Graduate Student, 2017-
 Callie Hood, Graduate Student, 2017-
 Katherina Feng, Graduate Student, 2014-2020
 Chris Mankovich, Graduate Student, 2014-2019
 Daniel Thorngren, Graduate Student, 2013-2019
 Mikey Nayak, Graduate Student, 2015-16

Caroline Morley, Graduate Student, 2010-16
Eric Lopez, Graduate Student, 2009-2014
Neil Miller, Graduate Student, 2008-2013
Katie Morzinski, Graduate Student, 2008-2011

Lili Manzo, Undergraduate Student, 2020 (senior thesis)
Robert Schroder, Undergraduate Student, 2017-2020
Christopher Myers, Undergraduate Student, 2015-2020 (senior thesis)
Owen Book, Undergraduate Student, 2019 (senior thesis)
Kieren Henaghen, Undergraduate Student, 2019 (senior thesis)
Zafar Rustamkulov, Undergraduate Student, 2015-19 (honors senior thesis)
Nicholas Tasker Undergraduate Student, 2018-19 (honors senior thesis + extra year)
Tyler Neely, Undergraduate Student, 2018-19 (senior thesis)
Owen Book, Undergraduate Student, 2018-19 (senior thesis)
Takahito Yoshida, Undergraduate Student, 2018-19 (senior thesis)
Adam Smith, Undergraduate Student, 2016-18 (senior thesis + extra year)
Gabriela Hernandez, Undergraduate Student, 2017-18 (honors senior thesis)
Heather Eagle, Undergraduate Student, 2017-18 (senior thesis)
Ruoyan Wang, Undergraduate Student, 2016-18 (senior thesis)
Christopher Seay, Undergraduate Student, 2015-18 (senior thesis + extra year)
Dillon Teal, Undergraduate Student, 2014-16 (senior thesis + extra year)
Alfredo Calderon, Undergraduate Student, 2016
Puttiwat Kongkaew, Undergraduate Student, 2013-15 (honors senior thesis)
Alvaro Zamora, Undergraduate Student, 2015
Freddy Cisneros, Undergraduate Student, 2014-15
Cezar Montero, Undergraduate Student, 2014-15 (senior thesis)
John Chapman, Undergraduate Student, 2013-2015 (senior thesis)
Andrew Stine, Undergraduate Student, 2015 (senior thesis)
Jason Elhaderi, Undergraduate Student, 2014-2015 (senior thesis)
Amelia Callahan, Undergraduate Student, 2014-2015 (senior thesis)
Giovannina Mansir, Undergraduate Student, 2014-2015 (senior thesis)
Kyle Luther, Undergraduate Student, 2014
Bryce Harling, Undergraduate Student, 2013-2014 (senior thesis)
Jacob Lustig-Yaeger, Undergraduate Student, 2012-2014 (honors senior thesis + extra year)
Larissa Nofi, Undergraduate Student, 2011-2013 (senior thesis)
Erik Worth, Undergraduate Student, 2013 (senior thesis)
John Kolpin, Undergraduate Student, 2011-2013 (senior thesis)
Jennifer Mulder, Undergraduate Student, 2011-2012 (honors senior thesis)
Jacob Bruns, Undergraduate Student, 2010-2012 (senior thesis)
Megan Shabram, Undergraduate Student, 2008-2010 (honors senior thesis + extra year)
Jon Jonson, Undergraduate Student, 2008-2009 (senior thesis)

POSTDOCS SUPERVISED:

Kazumasa Ohno, JSPS Fellow, 2021-
Elizabeth Bailey, 51 Pegasi b Fellow, 2020-
Peter Gao, NASA Sagan Fellow, 2020-
Xinting Yu, 51 Pegasi b Fellow, 2019-

Joshua Krissansen-Totton, NASA Sagan Fellow, 2019-
Naor Movshovitz, 2016-
Natasha Batalha, UC Presidents Fellow, 2018-2020
Henriette Schwarz, Morrison Fellow, 2017-2019
Thedodora Karalidi, 2017-2019
Ian Crossfield, NASA Sagan Fellow, 2016-17
Tyler Robinson, NASA Sagan Fellow, 2015-17
Michael Line, 2013-16
Vivien Parmentier, NASA Sagan Fellow, 2014-15
Kevin Moore, 2013-15
Nadine Nettelmann, 2009-2010, 2012-14
Philip Nutzman, 2010-2012
Eliza Miller-Ricci Kempton, NASA Sagan Fellow, 2009-2012

PUBLICATIONS

Jonathan J. Fortney

32,752 citations, *h*-index =97, from NASA ADS

RESEARCH PAPERS IN REFEREED JOURNALS:

- 319) Bell, T. J., Dang, L., Cowan, N. B., Bean, J., Désert, J.-M., Fortney, J. J., et al (2021), "A comprehensive reanalysis of Spitzer's 4.5 μm phase curves, and the phase variations of the ultra-hot Jupiters MASCARA-1b and KELT-16b," *Monthly Notices of the Royal Astronomical Society*, 504, 3316.
- 318) Yu, X., Moses, J. I., Fortney, J. J., & Zhang, X. (2021), "How to Identify Exoplanet Surfaces Using Atmospheric Trace Species in Hydrogen-dominated Atmospheres," *The Astrophysical Journal*, 914, 38.
- 317) Krissansen-Totton, J., Galloway, M. L., Wogan, N., Dhaliwal, J. K., & Fortney, J. J. (2021), "Waterworlds Probably Do Not Experience Magmatic Outgassing," *The Astrophysical Journal*, 913, 107.
- 316) Fraine, J., Mayorga, L. C., Stevenson, K. B., Lewis, N. K., Kataria, T., Bean, J. L., Bruno, G., Fortney, J. J., et al (2021), "The Dark World: A Tale of WASP-43b in Reflected Light with HST WFC3/UVIS," *The Astronomical Journal*, 161, 269.
- 315) Baxter, C., Désert, J.-M., Tsai, S.-M., Todorov, K. O., Bean, J. L., Deming, D., Parmentier, V., Fortney, J. J., Line, M., Thorngren, D., Pierrehumbert, R. T., Burrows, A., & Showman, A. P. (2021), "Evidence for disequilibrium chemistry from vertical mixing in hot Jupiter atmospheres. A comprehensive survey of transiting close-in gas giant exoplanets with warm-Spitzer/IRAC," *Astronomy and Astrophysics*, 648, A127.
- 314) Neuenschwander, B. A., Helled, R., Movshovitz, N., & Fortney, J. J. (2021), "Connecting the Gravity Field, Moment of Inertia, and Core Properties in Jupiter through Empirical Structural Models," *The Astrophysical Journal*, 910, 38.
- 313) Thorngren, D. P., Fortney, J. J., Lopez, E. D., Berger, T. A., & Huber, D. (2021), "Slow Cooling and Fast Reinflation for Hot Jupiters," *The Astrophysical Journal*, 909, L16.
- 312) Thompson, M. A., Telus, M., Schaefer, L., Fortney, J. J., Joshi, T., & Lederman, D. (2021), "Composition of terrestrial exoplanet atmospheres from meteorite outgassing experiments," *Nature Astronomy*, 5, 575.
- 311) Parmentier, V., Showman, A. P., & Fortney, J. J. (2021), "The cloudy shape of hot Jupiter thermal phase curves," *Monthly Notices of the Royal Astronomical Society*, 501, 78.
- 310) Leisawitz, D., Amatucci, E., Allen, L., et al. (2021), "Origins Space Telescope: trades and decisions leading to the baseline mission concept," *Journal of Astronomical Telescopes, Instruments, and Systems*, 7, 011014.
- 309) Meixner, M., Cooray, A., Leisawitz, D. T., et al. (2021), "Origins Space Telescope science drivers to design traceability," *Journal of Astronomical Telescopes, Instruments, and Systems*, 7, 011012.
- 308) Leisawitz, D., Amatucci, E., Allen, L., et al. (2021), "Origins Space Telescope: baseline

- mission concept," *Journal of Astronomical Telescopes, Instruments, and Systems*, 7, 011002.
- 307) Mikal-Evans, T., Crossfield, I. J. M., Benneke, B., et al. (2021), "Transmission Spectroscopy for the Warm Sub-Neptune HD 3167c: Evidence for Molecular Absorption and a Possible High-metallicity Atmosphere," *The Astronomical Journal*, 161, 18.
- 306) Fortney, J. J., Visscher, C., Marley, M. S., Hood, C. E., Line, M. R., Thorngren, D. P., Freedman, R. S., & Lupu, R. (2020), "Beyond Equilibrium Temperature: How the Atmosphere/Interior Connection Affects the Onset of Methane, Ammonia, and Clouds in Warm Transiting Giant Planets," *The Astronomical Journal*, 160, 288.
- 305) Colón, K. D., Kreidberg, L., Welbanks, L., et al. (2020), "An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Suggestive of a Subsolar Water Abundance," *The Astronomical Journal*, 160, 280.
- 304) Raymond, S. N., Kaib, N. A., Armitage, P. J., & Fortney, J. J. (2020), "Survivor Bias: Divergent Fates of the Solar System's Ejected versus Persisting Planetesimals," *The Astrophysical Journal*, 904, L4.
- 303) McGruder, C. D., López-Morales, M., Espinoza, N., Rackham, B. V., Apai, D., Jordán, A., Osip, D. J., Alam, M. K., Bixel, A., Fortney, J. J., Henry, G. W., Kirk, J., Lewis, N. K., Rodler, F., & Weaver, I. C. (2020), "ACCESS: Confirmation of No Potassium in the Atmosphere of WASP-31b," *The Astronomical Journal*, 160, 230.
- 302) Hood, C. E., Fortney, J. J., Line, M. R., Martin, E. C., Morley, C. V., Birkby, J. L., Rustamkulov, Z., Lupu, R. E., & Freedman, R. S. (2020), "Prospects for Characterizing the Haziest Sub-Neptune Exoplanets with High-resolution Spectroscopy," *The Astronomical Journal*, 160, 198.
- 301) Fletcher, L. N., Helled, R., Roussos, E., et al. (2020), "Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune," *Planetary and Space Science*, 191, 105030.
- 300) Feng, Y. K., Line, M. R., & Fortney, J. J. (2020), "2D Retrieval Frameworks for Hot Jupiter Phase Curves," *The Astronomical Journal*, 160, 137.
- 299) Jindal, A., de Mooij, E. J. W., Jayawardhana, R., Deibert, E. K., Brogi, M., Rustamkulov, Z., Fortney, J. J., Hood, C. E., & Morley, C. V. (2020), "Characterization of the Atmosphere of Super-Earth 55 Cancri e Using High-resolution Ground-based Spectroscopy," *The Astronomical Journal*, 160, 101.
- 298) Miles, B. E., Skemer, A. J. I., Morley, C. V., Marley, M. S., Fortney, J. J., Allers, K. N., Faherty, J. K., Geballe, T. R., Visscher, C., Schneider, A. C., Lupu, R., Freedman, R. S., & Bjoraker, G. L. (2020), "Observations of Disequilibrium CO Chemistry in the Coldest Brown Dwarfs," *The Astronomical Journal*, 160, 63.
- 297) Baxter, C., Désert, J.-M., Parmentier, V., Line, M., Fortney, J., Arcangeli, J., Bean, J. L., Todorov, K. O., & Mansfield, M. (2020), "A transition between the hot and the ultra-hot Jupiter atmospheres," *Astronomy and Astrophysics*, 639, A36.
- 296) Gao, P., Thorngren, D. P., Lee, G. K. H., Fortney, J. J., Morley, C. V., Wakeford, H. R., Powell, D. K., Stevenson, K. B., & Zhang, X. (2020), "Aerosol composition of hot giant exoplanets dominated by silicates and hydrocarbon hazes," *Nature Astronomy*,

- 295) Guo, X., Crossfield, I. J. M., Dragomir, D., et al. (2020), "Updated Parameters and a New Transmission Spectrum of HD 97658b," *The Astronomical Journal*, 159, 239.
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