David M. Kipping

Dept. of Astronomy, Columbia University
550 West 120th Street, New York, NY 10027
Tel: (212) 854-6899; e-mail: dkipping@astro.columbia.edu

Research

Exoplanets, moons, stellar hosts, astrostatistics, technosignatures/astrobiology

Publications

110 peer-reviewed publications, 51 as first-author, 22 as single-author [ADS Search]
$\gtrsim$7500 citations, h-index = 47 [Google Scholar] [ORCID 0000-0002-4365-7366]

Employment

Columbia University, New York, NY
Assistant Professor of Astronomy, 09/2015 –

American Museum of Natural History, New York, NY
Research Associate, 07/2015 –

Harvard College Observatory, Cambridge, MA
Menzel prize fellow, Advisor D. Sasselov, 09/2014 – 08/2015
Sagan prize fellow, Advisor D. Sasselov, 09/2011 – 08/2014

Smithsonian Institute, Cambridge, MA
Postdoctoral fellow, Advisor R. Noyes, 03/2011 – 08/2011
Predoctoral fellow, Advisor G. Bakos, 09/2009 – 12/2010

Major Awards

- Alfred P. Sloan Foundation Fellowship 2018
- Science News "SN 10 Scientists to Watch" Award, 10/2017
- Popular Science Annual "Brilliant 10" Award, 09/2015
- Royal Astronomical Society Keith Runcorn Prize, 20/04/2012
- UCL Faculty of Mathematical and Physical Sciences Postgraduate Prize, 11/01/2012
- UCL Jon Darius Memorial Prize, 28/10/2011
- Springer Thesis Prize for Outstanding PhD Research, 03/2011
- University of London Valerie Myerscough Prize for Physics & Astronomy, 10/2009

Education

University College London, London, UK
Ph.D. Astronomy 03/2011; Advisor G. Tinetti

University of Cambridge, Cambridge, UK
M.A. and M.Sc. Natural Sciences (Physical), 06/2007

Grants

- PI, NASA XRP 2022, "A Homogeneously Derived Map of Exoplanet Eccentricity for Low-Mass Stars", #22-XRP22_2-0200, $459,858
- PI, NASA XRP 2020, "An Exploration of TTV Frequency Space - Paving the Way to Exomoon Statistical Validation", #20-XRP20_2-0110, $391,802
- PI of Columbia Data Science Institute seed grant, "Planetary Linguistics", $200,000
- Admin PI of HST allocation GO-15149.002-A in Cycle 25: "Validating the Presence of a Moon Orbiting Kepler-1625b", 26 orbits, $52,683 [link]
- PI of NASA NAS award, 5.2 M CPU hours [link]
- "Detection of Hidden Worlds in Kepler Data", NASA ADAP, $300K evenly split between PI Nesvorný and Scientific-PI Kipping
- $700K in fellowships (SI Scholarly Studies, NASA Sagan, Harvard Menzel)
- PI of the MOST campaign "The Case for Observing Proxima Centauri" [link]
- PI of the *Spitzer* proposal "The transiting planet with the longest year" [link]

Service

Journal Reviewer: Nature, ApJ, MNRAS, A&A, Astrobiology, PASJ, IJA, EM&P
Meeting Convenor: *Exomoon Discussion Event*, New York, 2020
Pathways Towards Exomoons, Bern, 2015 [link]
Scientific Organizing Committee: *Exoplanets III*, Davos, 2020
Diversis Mundi, Santiago, 2018
Textbook Reviewer: *EXOPLANETS*, University of Arizona Press, ed. S. Seager
Proposal Reviewer: NASA, NSF, HARPS-N, Gemini
Columbia Service: Chair of Colloquium Commitee, 2 faculty searches, faculty/student hangouts organizer, graduate admissions, advisory council, Habanero commitee

Teaching

ASTR9003, "Graduate Research Seminar", Columbia University, Fall 2020
ASTR1453, "Another Earth", Columbia University, Spring 2018/2019, Fall 2022
ASTR3105, "Exoplanets & Astrobiology", Columbia University, Spring 2017/21
ASTR3986/4303, "Astrostatistics", Columbia University, Fall 2016/17/19, Spr 21
ASTR1753, "Life in the Universe", Columbia University, Fall 2015

Mentoring

Thesis: Jingjing Chen, Emily Sandford, Alex Teachey, Moiya McTier, Tiffany Jansen
Graduate: Daniel Yahalomi, Ben Cassese, Adam Wheeler, Bence Béky
Bridge Program: Diana Solano-Oropeza, Jorge Cortes, Ryan Diaz, Moiya McTier
Undergrad Research: Kathryn Lampo, Avishi Poddar, Madison Li, Andrew Zhang, Rohan Subramani, Zirui Chen, Joheen Chakraborty, Chris Lam, Gabrielle Suissa, Kanchana Raja, Prakruth Adari, David Sliski, William Dunn, Jamie Jasinksi, Varun Manthri, Giammarco Campanella

Recent Invited Talks

PSETI Conference, State College, June 2022
Exoplanets IV Conference, Las Vegas, May 2022
Jet Propulsion Laboratory, Pasadena, Apr 2022
RAND Corportation, Los Angeles, Mar 2022
Institute of Advanced Study, Princeton, Dec 2021
University of Dallas, Dallas, Nov 2021
University of Bern, Bern, Oct 2021
NASA Technosignature Seminars, virtual, June 2021
ERES 2021 Panelist, virtual, May 2021
University of Rochester, Rochester, Apr 2021
Circumplanetary Disks Conference II, Zurich, Mar 2021
STScI, Baltimore, Feb 2021
University of Munich, Munich, Jun 2020
Cornell University, Ithaca, Nov 2019
Big Data Small Planets, Israel, Jul 2019
Flatiron Institute, New York, Mar 2019
CITA, Toronto, Jan 2019
American Museum of Natural History, New York, Nov 2018
Sagan Symposium, Caltech, Nov 2018
Villanova University, Philadelphia, Nov 2018
University of Pennsylvania, Philadelphia, Oct 2018
NASA Technosignatures Workshop, Houston, Sep 2018
Earth Life Sciences Institute, Tokyo, Mar 2018
Circumplanetary Disks & Satellite Formation, Nagoya, Mar 2018
Leiden Observatory, Leiden, Mar 2018

Selected Outreach

Numerous public lectures and interviews for documentaries, radio, etc.
$\gtrsim$600,000 subscribers to "Cool Worlds" YouTube channel [link]