

# Andrew Mayo

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## Education

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University of California, Berkeley  
*Graduate Student*

Berkeley, CA  
*September 2018 - Present*

Technical University of Denmark  
*Visiting PhD Student*

Kongens Lyngby, Denmark  
*December 2017 - June 2018*

University of Copenhagen  
*Fulbright Fellow, PhD Dual Degree Student*

Copenhagen, Denmark  
*August 2017 - June 2018*

Harvard University  
*B.A. in Physics and Astrophysics*  
Highest honors, Magna cum laude, GPA: 3.834

Cambridge, MA  
*August 2013 - May 2017*

## Academic Employment History

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Summer Undergraduate Research Fellowship at Caltech	June 2016 - August 2016
Research at Harvard-Smithsonian CfA	May 2016 - June 2016
Herchel Smith and PRISE Fellowships at Harvard-Smithsonian CfA	June 2015 - August 2015
Researcher at Indiana University	June 2014 - August 2014

## Research Interests

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- Finding and studying small, Earth-like planets orbiting other stars
- Determining planet host star properties
- Developing new methods for the detection and characterization of planetary systems

## Awards

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- 2017 National Science Foundation Graduate Research Fellow
- 2017 Fulbright Scholar
- 2016 Caltech Summer Undergraduate Research Fellow
- 2015 Program for Research in Science and Engineering Fellow
- 2015 Herchel Smith-Harvard Undergraduate Science Research Fellow
- 2013 National Merit Finalist

## Publications

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### Refereed (1 first author, 9 total)

- Mayo A. W. et al. “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10” *The Astronomical Journal*, 155, 136 (2018).
- Malavolta, L., Mayo, A. W., et al., “An ultra-short period rocky super-Earth with a secondary eclipse and a Neptune-like companion around K2-141” *The Astronomical Journal*, 155, 107 (2018).
- Rice, K., Malavolta, L., Mayo A. W. “Masses and radii for the three super-Earths orbiting GJ 9827, and implications for the composition of small exoplanets” *Monthly Notices of the Royal Astronomical Society*, stz130 (2019).

- Vanderburg, A., Rappaport, S. A., **Mayo A. W.** “Detecting Exomoons via Doppler Monitoring of Directly Imaged Exoplanets” *The Astronomical Journal*, 156, 184 (2018).
- Rodríguez Martínez, R., Ballard, S., **Mayo A. W.** et al. “Characterization of Low Mass K2 Planet Hosts Using Near-Infrared Spectroscopy” (2019, in press).
- Rodríguez, J. E. et al., **including Mayo A. W.** “A Compact Multi-planet System with a Significantly Misaligned Ultra Short Period Planet” *The Astronomical Journal*, 156, 245 (2018).
- Vanderburg, A. et al., **including Mayo A. W.** “Zodiacal Exoplanets in Time (ZEIT). VII. A Temperate Candidate Super-Earth in the Hyades Cluster” *The Astronomical Journal*, 156, 46 (2018).
- Rodríguez, J. E. et al., **including Mayo A. W.** “A Multi-Planet System Transiting the  $V = 9$  Rapidly Rotating F-Star HD 106315” *The Astronomical Journal*, 153, 256 (2017).
- Vanderburg, A. et al., **including Mayo A. W.** “Two Small Planets Transiting HD 3167” *The Astrophysical Journal Letters*, 829, L9 (2016).

### Non-refereed

- Plavchan, P. et al., **including Mayo A. W.** “EarthFinder: A Precise Radial Velocity Probe Mission Concept For the Detection of Earth-Mass Planets Orbiting Sun-like Stars” arXiv:1803.03960 (2018).

### Contributed Talks/Presentations

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- Mayo, Andrew et al. “Measuring the Masses of Long-Period Planet Kepler-538 b (and Kepler-37 d)” NASA Ames Research Center, Moffett Field, CA, December 14, 2018.
- Mayo, Andrew et al. “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10” Exoplanets II Conference, Cambridge, United Kingdom, July 2, 2018.
- Mayo, Andrew et al. “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10” Annual Danish Astronomy Meeting, Faaborg, Denmark, May 4, 2018.
- Mayo, Andrew et al. “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10” 231<sup>st</sup> American Astronomical Society Meeting, National Harbor, MD, January 4, 2018.
- Mayo, Andrew et al. “197 Candidates and 102 New Validated Planets in C0-C10 of K2” Harvard Astrophysics Senior Thesis Presentations, Cambridge, MA, March 31, 2017.
- Mayo, Andrew et al. “Why Can’t We Agree on the Mass of KOI-94d?” Caltech Summer Undergraduate Research Fellowship Seminar, Pasadena, CA, August 10, 2016.
- Mayo, Andrew et al. “Starspots: And What We can Learn from Them” Harvard Program for Research in Science and Engineering Seminar, Cambridge, MA, August 11, 2015.
- Mayo, Andrew et al. “Searching for Nomadic Planets with Gravitational Lensing” Indiana University Research Experience for Undergraduates Seminar, Bloomington, IN, July 29 2014.

### Posters

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- Mayo, Andrew et al. “197 Candidates and 102 Validated Planets in C0-C10 of K2” Kepler & K2 Science Conference IV, NASA Ames Research Center, Moffett Field, CA, June 19-23, 2017.
- Mayo, Andrew et al. “A Possible 5<sup>th</sup> Planet in the Kepler-89 System.” 229<sup>th</sup> American Astronomical Society Meeting Poster Session, Grapevine, TX, January 4, 2017.
- Mayo, Andrew et al. “Modeling Starspots on Kepler-78.” National Collegiate Research Conference Poster Session, Cambridge, MA, January 23, 2016.
- Mayo, Andrew et al. “Modeling Starspots on Kepler-78.” 227<sup>th</sup> American Astronomical Society Meeting Poster Session, Kissimmee, FL, January 5, 2016.

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