

Patrick Colin Tamburo

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EDUCATION

SEP 2017-PRESENT	Graduate Student in Astronomy <i>Boston University</i> Adviser: Philip Muirhead
MAY 2019	Master of Arts in Astronomy <i>Boston University</i>
MAY 2016	Bachelors of Science in Astronomy and Physics <i>University of Maryland, College Park</i> Adviser: Drake Deming

RESEARCH APPOINTMENTS

SEP 2018 - DEC 2020	Research Fellow <i>Boston University</i> , Profs. Philip Muirhead & Paul Withers
SEP 2017 - SEP 2018	Dean's Fellow <i>Boston University</i> , Prof. Philip Muirhead
JUL 2016 - JUL 2017	Research Assistant <i>NASA Goddard Spaceflight Center</i> , Dr. Avi Mandell
JAN 2015 - JUL 2016	Undergraduate Student Researcher <i>University of Maryland, College Park</i> , Prof. Drake Deming
JUN 2015 - AUG 2015	Undergraduate Research Intern <i>NASA Goddard Spaceflight Center</i> , Dr. Avi Mandell

TEACHING APPOINTMENTS

Teaching Fellow <i>Boston University</i>	AS105: Alien Worlds, Spring 2021.
Teaching Assistant <i>University of Maryland</i>	ASTR340: Origins of the Universe, Spring 2016. ASTR398b: Special Topics in Astro. - Black Holes, Fall 2015. ASTR330: The Solar System, Spring 2015. ASTR310: Observational Astronomy, Fall 2014.

HONORS AND AWARDS

- SEP 2017 - AUG 2018 | Dean's Fellowship, *Boston University*
- MAY 2016 | High Honors in Astronomy, *University of Maryland*
- JUN 2015 - AUG 2015 | Summer Scholars Research Grant, *University of Maryland*
- SEP 2014 - MAY 2016 | Maryland Space Grant Consortium Scholarship, *Maryland Space Grant*
- SEP 2012 - MAY 2014 | Dean's Scholarship, *University of Maryland*

PUBLICATIONS

As first author, refereed

- [1] **P. Tamburo** & P. Muirhead. "Design Considerations for a Ground-Based Search for Transiting Planets around L and T Dwarfs". *PASP*, 131, 1005, Oct 2019.
- [2] **P. Tamburo**, A. Mandell, D. Deming, & E. Garhart. "Confirming Variability in the Secondary Eclipse Depth of the Super Earth 55 Cancri E". *AJ*, 155, 5, May 2018.

As coauthor, refereed

- [3] K. D. Colón, L. Kreidberg, M. Line, L. Welbanks, N. Madhusudhan, T. Beatty, **P. Tamburo**, K. B. Stevenson, A. Mandell, J. E. Rodriguez, T. Barclay, E. D. Lopez, K. G. Stassun, D. Angerhausen, J. J. Fortney, D. J. James, J. Pepper, J. P. Ahlers, P. Plavchan, S. Awiphan, C. Kotnik, K. K. McLeod, G. Murawski, H. Chotani, D. LeBrun, W. Matzko, D. Rea, M. Vidaurri, S. Webster, J. K. Williams, L. S. Cox, N. Tan, & E. A. Gilbert. "An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Potentially Suggestive of a Sub-Solar Water Abundance". *AJ*, 160, 280, Oct 2020.
- [4] P. A. Dalba & **P. Tamburo**. "*Spitzer* Detection of the Transiting Jupiter-analog Exoplanet Kepler-167e." *ApJL*, 873, L17, Mar 2019.
- [5] K. Sheppard, A. Mandell, **P. Tamburo**, S. Gandhi, A. Pinhas, N. Madhusudhan, & D. Deming. "Evidence for a Dayside Thermal Inversion and High Metallicity for the Hot Jupiter WASP-18b". *ApJL*, 850, L32, Nov 2017.

As first author, conference abstracts

- [6] **P. Tamburo**, P. Withers, L. Moore, P. A. Dalba, & T. Koskinen. "Reanalysis of Cassini Radio Occultation Data and Electron Density Profiles for Saturn". *AGUFM*, Dec 2019.
- [7] **P. Tamburo**, A. Mandell, D. Deming, & E. Garhart. "Confirming Variability in the Secondary Eclipse Depth of the Rocky Super-Earth 55 Cancri e". *B.A.A.S.*, 229, 219.04, Jan 2017.

As coauthor, conference abstracts

- [8] K. Colon, L. Kreidberg, M. R. Line, N. Madhusudhan, T. Beatty, **P. Tamburo**, K. Stevenson, A. M. Mandell, L. Welbanks, D. Angerhausen, J. Fortney, D. James, J. Johnson, E. D. Lopez, B. M. Morris, J. Pepper, J. Rodriguez, & K. G. Stassun. "An Investigation of the Atmosphere of the Extremely Inflated Exoplanet KELT-11b with HST and Spitzer". *B.A.A.S.*, 233, 205.01, Jan 2019.
- [9] K. Sheppard, A. Mandell, **P. Tamburo**, S. Gandhi, A. Pinhas, N. Madhusudhan, & D. Deming. "Evidence for a Dayside Thermal Inversion and High Metallicity for the Hot Jupiter WASP-18b". *B.A.A.S.*, 231, 211.03, Jan 2018.

PRESENTATIONS

DEC 2019 AGU Fall Meeting, San Francisco, CA - **Poster**
JAN 2019 Boston Area Exoplanet Science Meeting 5, Boston University, Boston, MA - **Contributed Talk**
DEC 2018 AGU Fall Meeting, Washington, D.C. - **Contributed Talk**
JUL 2018 Cool Stars 20, Boston University, Boston, MA - **Poster**
JUL 2018 2018 Sagan Exoplanet Summer Workshop, California Institute of Technology, Pasadena, CA - **Poster**
JUN 2018 Emerging Researchers in Exoplanet Science IV, Penn State University, State College, PA - **Poster**
JUL 2017 Enabling Transiting Exoplanet Observations with *JWST*, Space Telescope Science Institute, Baltimore, MD - **Poster**
JAN 2017 229th Meeting of the American Astronomical Society, Grapevine, TX - **Contributed Talk**
APR 2016 Undergraduate Research Day, University of Maryland, College Park, MD - **Poster**

TELESCOPE TIME

As PI

DISCOVERY CHANNEL TELESCOPE, Lowell Observatory, Jul 2019, **5 nights**
The Sagitta sdM Survey (SsdMS): A Search for Transiting Exoplanets around Low-metallicity M dwarfs with DCT-LMI
PERKINS TELESCOPE, Lowell Observatory, May 2018 - Nov 2018, **15 nights**
Commissioning study for multi-year search for transiting planets around L and T dwarfs.

As Co-I

SPITZER SPACE TELESCOPE, Cycle 14 (Dec 2018), **10 hours**
Photometric observations to search for the transit of the long-period exoplanet Kepler-167e.

WORKSHOPS ATTENDED

TESS Data Workshop, *Space Telescope Science Institute*, Feb 2019
Sagan Exoplanet Summer Workshop, *California Institute of Technology*, Jul 2018
Enabling Transiting Exoplanet Observations with JWST, *Space Telescope Science Institute*, Jul 2017

MEDIA COVERAGE

[“A step by step guide to finding planets around ultracool dwarfs”](#), *Astrobites*, Aug 2019

PROFESSIONAL SERVICE

NOV 2019 - PRESENT	Perkins Telescope Observatory TAC Graduate Student Reviewer
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ACADEMIC SERVICE

SEP 2020 - PRESENT	Graduate student representative
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