

Timothy D. Brandt

Department of Physics
University of California, Santa Barbara
Broida Hall
Santa Barbara, CA 93106

Phone: (805) 893-5489
Office: 2015F Broida Hall
Email: tbrandt@ucsb.edu

Education

Ph.D., Astrophysical Sciences, Princeton University, November 2013.

Thesis Title: "A Census of Distant, Giant Exoplanets"

Research Adviser: Professor Edwin Turner

M.S., Astrophysical Sciences, Princeton University, 2011.

B.S., Physics and Mathematics, Yale University, 2006; *magna cum laude*.

Employment

Assistant Professor, University of California, Santa Barbara, July 2017–present.

Member, Institute for Advanced Study, September 2013–June 2017.

High School Teacher, The American School of Kuwait, August 2006–June 2008.

Fields of Research Interest

Large surveys and data sets; statistical techniques

Direct detection and characterization of exoplanets

Integral-field spectroscopy: instrumentation and image processing

Stellar evolution and stellar populations

Honors, Awards, & Fellowships

NASA Sagan Fellow, 2014–2017.

Charlotte Elizabeth Proctor Honorific Fellowship, 2012–2013.

NSF Graduate Research Fellowship, 2009–2012.

Phi Beta Kappa, 2006.

Advising

Undergraduate

Eve Matthaey, Princeton University, summer 2013

Graduate

Johnny Greco, Princeton University, 2015–2016

Kyle Mede, University of Tokyo, 2011–2016

Teaching

Princeton University

AST 303, Observing and Modeling the Universe, Fall 2010, Assistant Instructor

College Algebra, New Jersey State Prisons, Fall 2008–Spring 2011, Volunteer Instructor

The American School of Kuwait

AP Physics, Fall 2006–Spring 2008

College Physics, Fall 2006–Spring 2008

Conceptual Physics, Fall 2006–Spring 2008

Elective Astronomy, Fall 2006–Spring 2008

AP Chemistry (team-taught), Fall 2007–Spring 2008

Conferences and Seminars

- 10/2016 UC Santa Barbara Physics Seminar (*Santa Barbara, California*)
- 3/2016 UC Santa Barbara Astrophysics Seminar (*Santa Barbara, California*)
- 3/2016 JPL Lunch Seminar (*Pasadena, California*)
- 2/2016 Exoplanets and Disks: Their Formation and Diversity III, Invited Talk (*Ishigaki, Japan*)
- 2/2016 Ohio State University, Astrophysics Seminar (*Columbus, Ohio*)
- 2/2016 University of Toronto, Special Astrophysics Seminar (*Toronto, Canada*)
- 2/2016 Princeton University/IAS Joint Astrophysics Seminar (*Princeton, New Jersey*)
- 1/2016 Northwestern University, Special Astrophysics Seminar (*Evanston, Illinois*)
- 1/2016 Carnegie Observatories, Friday Lunch Seminar (*Pasadena, California*)
- 1/2016 Caltech, Tuesday Lunch Seminar (*Pasadena, California*)
- 12/2015 Gamma Rays and Dark Matter, Invited Talk, (*Innsbruck, Austria*)
- 12/2015 Yale Center for Astronomy and Astrophysics Seminar, (*New Haven, Connecticut*)
- 10/2015 Northwestern University, Astrophysics Seminar, (*Evanston, Illinois*)
- 9/2015 NASA Goddard Space Flight Center, Exoplanets Seminar (*Greenbelt, Maryland*)
- 9/2015 Johns Hopkins University, Wine and Cheese Seminar (*Baltimore, Maryland*)
- 6/2015 In the Spirit of Bernard Lyot, Oral Presentation, (*Montréal, Canada*)
- 5/2015 Young Stars Near the Sun, Poster Presentation, (*Atlanta, Georgia*)

- 5/2015 Sagan Symposium, Oral Presentation, (*Pasadena, California*)
- 5/2015 Johns Hopkins University, Wine and Cheese Seminar (*Baltimore, Maryland*)
- 1/2015 NASA Goddard Space Flight Center, AFTA Seminar (*Greenbelt, Maryland*)
- 6/2014 SPIE Meeting, Poster Presentation, (*Montreal, Canada*)
- 4/2014 UC Santa Cruz Astrophysics Seminar, (*Santa Cruz, California*)
- 3/2014 Space Telescope Science Institute Planets Seminar, (*Baltimore, Maryland*)
- 11/2013 NASA Goddard Space Flight Center, Exoplanets Seminar (*Greenbelt, Maryland*)
- 11/2013 IAS Informal Seminar, (*Princeton, New Jersey*)
- 9/2013 Thesis Colloquium, (*Princeton University*)
- 6/2013 IAU Symposium, Exploring the Formation and Evolution of Planetary Systems, Poster Presentation (*Victoria, Canada*)
- 10/2012 SEEDS Workshop, Invited Participant, Two Contributed Talks (*Hakone, Japan*)
- 09/2012 Harvard Center for Astrophysics, Optical/Infrared Seminar (*Cambridge, Massachusetts*)
- 05/2012 Wunch Seminar (*Princeton University*)
- 10/2011 SEEDS Workshop, Invited Participant, Two Contributed Talks (*Heidelberg, Germany*)
- 09/2010 Workshop on Type Ia Supernova Progenitors, Invited Participant (*Leiden, Netherlands*)
- 08/2010 Research Center for the Early Universe Summer School, Invited Participant (*Kochi, Japan*)
- 07/2010 Supernova Progenitors and Environments, Contributed Talk (*Paris, France*)
- 03/2010 Wunch Seminar (*Princeton University*)
- 04/2009 Type Ia Supernova Progenitors Workshop, Contributed Talk (*Princeton University*)

Popular Talks

- 10/2015 “Gamma Rays from the Galactic Center: A Mystery No Longer?,” Institute for Advanced Study After Hours Conversation, Princeton, NJ
- 04/2015 “The Ages of Stars,” Institute for Advanced Study After Hours Conversation, Princeton, NJ
- 03/2011 “Type Ia Supernovae,” Amateur Astronomers Association of Princeton, Princeton, NJ
- 06/2010 “Supernovae: The Deaths of Massive Stars,” Stacy Middle School, Milford, MA
- 06/2009 “Discoveries in Astronomy,” Stacy Middle School, Milford, MA

Professional Service

Review Panelist: NASA Astrophysics Data Analysis Program, 2017

Telescope Allocation Committee Member, Las Cumbres Observatory Global Telescope Network

Reviewer: *Astrophysical Journal*, *Astrophysical Journal Letters*; *Astrophysical Journal Supplement Series*; *Monthly Notices of the Royal Astronomical Society*; *Journal of Astronomical*

Telescopes, Instruments, and Systems

Reviewer, German-Israeli Foundation for Scientific Research and Development

External Reviewer, NASA Earth and Space Science Fellowship

Reviewer, NASA Postdoctoral Program