

Phillip H. Phipps

Curriculum Vitae

Department of Astronomy, Boston University
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Education

Ph.D. program Department of Astronomy, Boston University	2013 - present
M.A. Astronomy Department of Astronomy, Boston University	September 2015
B.S. Physics with Honors B.S. Applied Mathematics with Honors North Carolina State University	Spring 2013

Research Experience

Graduate Researcher Advisor: Dr. Paul Withers Department of Astronomy, Boston University, Boston, MA Research of the Io Plasma Torus around Jupiter.	Summer 2015 - present
Graduate Researcher Advisor: Dr. John T. Clarke Department of Astronomy, Boston University, Boston, MA Image analysis of Jupiter and Saturn aurora.	Summer 2014- May 2015
Undergraduate Researcher Advisor: Dr. John M. Blondin Department of Physics, NC State University, Raleigh, NC Astrophysics hydrodynamic simulations of accretion disks around white dwarfs Using parallelized codes written in FORTRAN.	2010-Spring 2013

Awards/Grants

Astronomy Department Teaching Award	April 2016
Massachusetts Space Grant Consortium Grant	January 2016
AAS International Travel Grant For travel to IAU meeting in Honolulu, Hawaii, August 2015	April 2015

Teaching Experience

Teaching Fellow, AS202 Department of Astronomy Boston University, Boston, MA	Fall 2015
Teaching Fellow, AS203 Department of Astronomy Boston University, Boston, MA	Spring 2015
Teaching Fellow, AS202 Department of Astronomy Boston University, Boston, MA	Fall 2014
Teaching Fellow, AS109 Department of Astronomy Boston University, Boston, MA	Spring 2014
Teaching Fellow, AS105 Department of Astronomy Boston University, Boston, MA	Fall 2013
Physics Tutor Department of Physics NC State University, Raleigh, NC Tutored undergraduate physics for engineers and other non-physics and physics majors.	2012- Spring 2013

Outreach

Science by the pint Event put on by Harvard Universities Science in the news to discuss science with the general public over a pint. http://sitn.hms.harvard.edu/science-by-the-pint/	January 2016
Open night for Metropolitan College group Managed an open night for the Boston University honor society of metropolitan college.	December 2015
Lunar eclipse viewing Managed a BU public event for the viewing of the Lunar eclipse at Boston University's Coit Observatory.	September 2015

Observational Experience

Lowell Observatory, Happy Jack, Arizona, Discovery Channel Telescope, 4.3m Telescope
Judson B. Coit Observatory, Boston University, Boston, MA, 14", 10", 8" reflectors and 6" refractor

Computer Experience

Languages: Python, IDL, MatLab, Fortran

Analysis Software: some IRAF/PYRAF, DS9, MaximDL

Document Preparation: LaTeX, Windows Office

Operating Systems: Unix, Linux, Windows, Mac

Memberships

American Geophysical Union, Student Member	2016-present
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American Astronomical Society, Junior Member	2010-present
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Society of Physics Students	2009-2015
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Abstracts

Phipps, P.H. & Withers, P. (2016). Feasibility of Juno radio occultations of the Io plasma torus, Abstract 178300 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.

Phipps, P.H. & Clarke, J.T. (2015). Calculation of the Auroral Color Ratio of the Gas Giants Using Images, IAU General Assembly, Meeting #29, #2258018

Publications

Phipps and Withers (2017), Radio occultations of the Io plasma torus by *Juno* are feasible, J. Geophys. Res. Space Physics, 122, DOI: 10.1002/2016JA023447
