

Alexander W. Wise

Ph.D. Candidate in Physics
University of Delaware Physics and Astronomy
321 Sharp Lab, Newark, DE 19716 | (585) 703-0103 | aww@udel.edu

Research Areas

Giant planet migration – I use numerical simulations of giant planets migrating in protoplanetary disks to better understand the formation histories of exoplanets.

Stellar activity – I analyze high resolution stellar spectra to better understand stellar activity and improve our ability to detect and characterize the smallest exoplanets using Doppler spectroscopy.

Education

University of Delaware

- Ph.D. Candidate, Physics, currently enrolled as of August 2013
- NASA Delaware Space Grant Graduate Fellowship, awarded in both 2017 and 2018
- Daicar-Bata prize for highest GPA in physics and astronomy courses, September 2016
- Daicar-Bata finalist for best paper in physics and astronomy department, October 2018

State University of New York at Geneseo

- B.A. summa cum laude, Physics and Mathematics, May 2012
- Department of Physics and Astronomy Senior Award for highest GPA, May 2012
- National Physics Honors Society member, January 2011

Research Employment

- Sep 2017 – Aug 2019 NASA Delaware Space Grant Graduate Fellow
- May 2014 – Aug 2017 Graduate Research Assistant, University of Delaware
- May 2010 – Aug 2010 Undergraduate Research Assistant, SUNY Geneseo

Students Supervised

- Kelsey Bevenour, former undergraduate at University of Delaware, now graduate student in Astrobiology at University of Arkansas
- Anthony Provini, undergraduate at University of Delaware

Teaching Experience

- Teaching Assistant, PHYS 133 “Introduction to Astronomy”, University of Delaware, Spring 2015
- Teaching Assistant, PHYS 201 “Introductory Physics I”, University of Delaware, Spring 2015
- Teaching Assistant, PHYS 202 “Introductory Physics II”, University of Delaware, Fall 2013, Winter 2014, Spring 2014
- Teaching Assistant, PHYS 106 “The Nature of Light and Color”, SUNY Geneseo, Spring 2012

- Teaching Assistant, ASTR 100 “Introductory Astronomy”, SUNY Geneseo, Fall 2010

Professional Presentations

- Jan 2019 Talk, *233rd Meeting of the American Astronomical Society*, Seattle WA
- Dec 2018 Talk, *Carnegie DTM Astro Seminar*, Department of Terrestrial Magnetism
- Oct 2018 Talk, *Daicar-Bata Best Paper Competition*, University of Delaware
- Sep 2018 Talk, *Planetary Astrophysics Seminar*, Yale University
- Sep 2018 Talk, *Brown Bag Lunch Talk Series*, Massachusetts Institute of Technology
- Sep 2018 Talk, *Colloquium*, George Mason University
- Sep 2018 Talk, *Chesapeake Bay Area Exoplanet Meeting*, Baltimore MD
- July 2018 Poster, *Sagan Exoplanet Summer Workshop*, Pasadena CA
- June 2018 Poster, *Emerging Researchers in Exoplanet Science Symposium IV*, Penn State
- May 2018 Talk, *Physics and Astronomy Graduate Student Society*, University of Delaware
- Apr 2018 Talk, *Delaware Space Grant Research Symposium*, Dover, DE
- Aug 2016 Talk, *Yale Astrostatistics Workshop*, Yale University
- Sep 2015 Talk, *Graduate Student Symposium*, University of Delaware
- July 2015 Poster, *Sagan Exoplanet Summer Workshop*, Pasadena CA
- May 2015 Talk, *Emerging Researchers in Exoplanet Science Symposium*, Penn State
- Jan 2015 Poster, *225th Meeting of the American Astronomical Society*, Seattle WA
- Sep 2014 Talk, *Graduate Student Symposium*, University of Delaware

Publications

- Wise, A., Dodson-Robinson, S. E. Bevenour, K., Provini, A., New Methods for Finding Activity-Sensitive Spectral Lines: Combined Visual Identification and an Automated Pipeline Find a Set of 40 Activity Indicators. 2018, *The Astronomical Journal*, 156, 180
- Wise, A., Dodson-Robinson, S. E. Photoevaporation Does Not Create a Pileup of Giant Planets at 1 au. 2018, *The Astrophysical Journal*, 855, 145
- Wise, A., Dodson-Robinson, S. E. No Giant Planet Pileup Near 1 au. 2018, *Research Notes of the American Astronomical Society*, 2, 29
- Wise, A., Dodson-Robinson, S. E. Effects of Photoevaporation on Planet Migration. 2015, *American Astronomical Society Meeting Abstracts*, 225, 257.19