

Daniel Johns

Curriculum Vitae

Department of Physics & Astronomy
Georgia State University
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Education

- 2025 **PhD (expected)**, *Astronomy*, Georgia State University, Atlanta, GA.
Advisor: Professor Fabien Baron.
- 2022 **MS**, *Physics/Astronomy*, Georgia State University, Atlanta, GA.
Advisor: Professor Fabien Baron.
- 2020 **BS**, *Physics*, Kutztown University, Kutztown, PA.

Experience

Research

- 2020-Present **Graduate Research Assistant**, *Georgia State University*, Atlanta, GA., Advisor: Fabien Baron.
Doppler Imaging and Interferometry of Spotted Late-type Stars.
- 2016-2020 **Undergraduate Research Assistant**, *Kutztown University*, Kutztown, PA., Advisor: Phill Reed.
Observing and Modeling the Variable Accretion States of Interacting Algol-type Binaries.
- 2018 **Research Experience for Undergraduates**, *University of Southern Queensland*, Toowoomba, QLD, Australia., Advisor: Rob Wittenmyer.
Revising Exoplanet Characteristics and Habitability using Gaia DR2.

Teaching

- 2020-Present **Graduate Teaching Assistant - Lab Instructor**, *ASTR 1010 - Solar System Astronomy*, *ASTR 1020 - Stellar & Galactic Astronomy*, Georgia State University, Atlanta, GA..

Publications

First Author

- 2019 **KELT-23Ab: A Hot Jupiter Transiting a Near-Solar Twin Near the TESS and JWST Continuous Viewing Zones**, *Johns et. al.*, 2019, *AJ*, 158, 78.
- 2018 **Revised Exoplanet Radii and Habitability Using Gaia Data Release 2**, *Johns et. al.*, 2018, *ApJS*, 239, 14.

Other

- 2020 **Cool Jupiters greatly outnumber their toasty siblings: Occurrence rates from the Anglo-Australian Planet Search**, *Wittenmyer et. al.*, 2020, *MNRAS*, 492, 377.

- 2019 **Minerva-Australis I: Design, Commissioning, & First Photometric Results**, *Addison et. al.*, 2019, PASP, 131, 115003.
- 2019 **The HD 181433 Planetary System: Dynamics and a New Orbital Solution**, *Horner et. al.*, 2019, AJ, 158, 100.
- 2019 **Truly eccentric. I. Revisiting eight single-eccentric planetary systems**, *Wittenmyer et. al.*, 2019, MNRAS, 484, 5859.

--- Presentations

Posters

- 2020 **Modeling the Mass-transfer Stream in the Interacting Algol-type Binary Star U Coronae Borealis**, *235th Meeting of the American Astronomical Society*, Honolulu, HI.
- 2019 **KELT-23Ab: A New Jupiter-like Exoplanet Discovered at Kutztown University**, *Pennsylvania State System of Higher Education 2019 STEM Conference*, Kutztown, PA.
- 2019 **Revised Exoplanet Radii and Habitability Using Gaia Data Release 2**, *233rd Meeting of the American Astronomical Society*, Seattle, WA.

Talks

- 2021 **Dynamical Imaging of Starspots**, *GSU Physics & Astronomy 1 Minute Colloquium*, Atlanta, GA.
- 2019 **Modeling the Stream-like state of U Coronae Borealis**, *Central Pennsylvania Consortium Astronomers' Meeting 2019*, Gettysburg, PA.

--- Observing Proposals

- 2022B **Imaging Starspots with CHARA/MIRC-X**, *The CHARA Array*, 1 full night.

--- Honors, Awards, & Fellowships

- 2022 **Remote Sensing for Space Sciences Fellowship**, *Georgia State University*, Atlanta, GA.
- 2022 **NSF-GRFP Honorable Mention**, *Georgia State University*, Atlanta, GA.
- 2020–2022 **Second Century Initiative Fellowship**, *Department of Physics & Astronomy*, Georgia State University, Atlanta, GA.
- 2020 **Summa Cum Laude**, *Kutztown University*, Kutztown, PA.
- 2020 **Syed R-Ali Zaidi Award for Academic Excellence**, *Pennsylvania State System of Higher Education*.
- 2020 **Gold Chambliss Academic Achievement Award**, *Kutztown University*, Kutztown, PA.
- 2020 **NSF-GRFP Honorable Mention**, *Kutztown University*, Kutztown, PA.
- 2019 **Sigma Pi Sigma**, *Kutztown University Chapter*, Kutztown, PA.
- 2019 **Sigma Pi Sigma**, *Kutztown University Chapter*, Kutztown, PA.

- 2019 **Best Presentation in Physics, Astronomy, and Engineering**, *Pennsylvania State System of Higher Education STEM Conference 2019*.
- 2019 **Carole and Ray Neag Undergraduate Research Grant**, *Kutztown University*, Kutztown, PA.

Workshops

- 2019 **Physics of Eclipsing Binaries 2.0 (PHOEBE2)**, *Villanova University*, Villanova, PA.

Activities

- 2021-2022 **Computing Committee**, *Astronomy graduate student member*, Department of Physics & Astronomy, Georgia State University, Atlanta, GA.
- 2021 **Atlanta Science Festival**, *Organized and moderated virtual event*, Department of Physics & Astronomy, Georgia State University, Atlanta, GA.
- 2018-2019 **Society of Physics Students**, *Treasurer*, Kutztown University, Kutztown, PA.

Computer Skills

- Languages Julia, Python.
- Software IRAF, AstroImageJ, MaximDL, AudeLa, Linux.