

ALLISON HUGHES

Astrophysics Graduate Researcher

[linkedin.com/in/astroallison/](https://www.linkedin.com/in/astroallison/)

EDUCATION

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| PhD in Physics – University of Arizona College of Science Fellowship | Expected Summer 2022 |
| MS in Physics – Texas Tech University NASA & Texas Space Grant Consortium Fellowship J.T. and Margaret Talkington Foundation Fellowship | December 2017 |
| BA in Astrophysics & Physics – University of California, Berkeley | May 2015 |

RESEARCH EXPERIENCE

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| Graduate Research Assistant University of Arizona, Department of Astronomy & Steward Observatory Texas Tech University, Department of Physics & Astronomy | 8/2017 – Present 8/2015 – 7/2017 |
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- Write robust codes that efficiently process and analyze large data structures from many separate sources
- Apply statistical methods and physical models to interpret data; write peer-reviewed scientific papers
- Collaborate with graduate students, post-doctoral researchers, and professors at UA and other universities
- Write observing proposals; acquire, process, and interpret data from international telescopes

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| Student Researcher University of California Berkeley, Department of Astronomy | 9/2013 – 5/2015 |
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- Re-purposed and analyzed existing large data set to use for a novel project
- Examined the efficiency and quality of new scientific methods compared to previous methods

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| Recent Science Talks | ★ UA Department of Astronomy Early Career Scientist Talk: 10/6/2021 |
| | ★ European Astronomical Society Annual Meeting: 6/29/2021 |
| | ★ UA Department of Physics Grad Talk, Best Talk winner: 4/30/2021 |
| | ★ Women in Data Science Tucson Conference, Data Blitz winner: 4/21/2021 |

RECENT DEPARTMENT SERVICE & OUTREACH

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| Student Representative ★ 5 Year Administrator Review, Physics Department Head | 11/2021 – Present |
| Publicity Officer ★ UA Women in Physics (WiP) | 9/2020 – Present |
| Local Organizing Committee ★ Conference for Undergraduate Women in Physics | 2/2021 – 1/2022 |
| VP of Communication ★ UA Women in STEM Student Council (WiSSC) | 1/2019 – 5/2020 |

Presenter at local STEM Outreach events

- Monthly role as a Graduate Student Facilitator with the NOIR Lab Teen Astronomy Café program to lead discussions with high school students on current astronomy topics, academic advice, and career options
- In-person and virtual physics demonstrations at local elementary schools and university events

RELEVANT SKILLS

- ★ Experience in coding with IDL, Python, and IRAF languages, and with machine learning techniques
- ★ Comfortable with public speaking to scientific and layperson audiences
- ★ Website & flyer design with Wordpress, Weebly, Adobe Illustrator