

## Hayden R. Foote

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Graduate Student  
Department of Astronomy / Steward Observatory  
The University of Arizona

Room 341, Steward Observatory  
933 N Cherry Ave.  
Tucson, AZ 85719  
[haydenfoote@email.arizona.edu](mailto:haydenfoote@email.arizona.edu)

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## EDUCATION

*In Progress:* **Doctor of Philosophy** in Astronomy, expected graduation May 2025

The University of Arizona | Tucson, Arizona, USA

Advisor: Prof. Gurtina Besla

**Bachelor of Arts** (*summa cum laude*, With Distinction) in Astronomy, 2020

The University of Colorado Boulder | Boulder, Colorado, USA

Thesis: *Mass Segregation in Eccentric Nuclear Disks: Enhanced Tidal Disruption Event Rates for High Mass Stars*

Advisor: Prof. Ann-Marie Madigan

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## AWARDS

University of Arizona College of Science Fellowship, 2020

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## POSITIONS

**Graduate Research Assistant**, Steward Observatory, August 2020 – Present

**Undergraduate Research Assistant**, JILA (CU Boulder), January 2018 – June 2020

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## PRESENTATIONS

- ◇ “Studying the Dynamical Friction Wake Caused by the LMC as a Dark Matter Probe” – Poster presentation at the 52<sup>nd</sup> Meeting of the Division on Dynamical Astronomy, May 2021
- ◇ “Mass Segregation in Eccentric Nuclear Disks” – Poster presentation at the 235<sup>th</sup> Meeting of the American Astronomical Society, January 2020.
- ◇ “Mass Segregation in Eccentric Nuclear Disks” – CU Boulder CASA/JILA Seminar, October 2019.
- ◇ “Vertical Mass Segregation in Eccentric Nuclear Disks” – Contributed talk at the 50<sup>th</sup> Meeting of the Division on Dynamical Astronomy, June 2019.
- ◇ “Vertical Mass Segregation in Eccentric Nuclear Disks” – Poster presentation at the 50<sup>th</sup> Meeting of the Division on Dynamical Astronomy, June 2019.

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## PEER-REVIEWED PUBLICATIONS

- ◇ *Mass Segregation in Eccentric Nuclear Disks: Enhanced Tidal Disruption Event Rates for High Mass Stars*, **Hayden R. Foote**, Aleksey Genozov, and Ann-Marie Madigan, *The Astrophysical Journal*, 890, 175

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## TEACHING

**Learning Assistant** for PHYS 1120 (General Physics 2), University of Colorado Boulder, Spring 2020

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## SERVICE

**Steward Observatory Diversity and Equity Initiative (SO-DEI) Admissions Task Force**, July 2020 - Present