

Theodore Richardson | Ph.D., University of Florida

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## Education

Ph.D. in Astronomy – University of Florida	2025
M.S. in Astronomy – University of Florida	2022
B.A. in Astronomy (Astrophysics) – Cornell University	2019

## Employment

Graduate Research Assistant – University of Florida	2020 - Present
Graduate Teaching Assistant – University of Florida	2019 - 2020, 2023
Undergraduate Research Assistant – Cornell University	2018 - 2019

## Areas of Interest

- Star formation theory/Young stellar objects/Protoclusters
- The Core Mass Function/Stellar IMF
- Machine learning/computational methods
- Radiative transfer
- Software development

## Publications

### *First-author Papers*

Richardson et al. (2025, accepted to ApJ)

Richardson et al. ([2024](#))

### *Other Papers*

Peltonen, Rosolowsky, Williams, ..., Richardson et al. ([2024](#))

### *Data/Software*

Confusion matrices for theoretical young stellar object models [Data set] (Richardson et al.), doi:[10.5281/zenodo.13922040](https://doi.org/10.5281/zenodo.13922040)

An updated modular set of synthetic spectral energy distributions for young stellar objects [Data set] (Richardson et al.), doi:[10.5281/zenodo.8114592](https://doi.org/10.5281/zenodo.8114592)

imf: Simple tools to work with the Initial Mass Function (contributed to development), <https://github.com/keflavich/imf>  
sedfitter (fork), <https://github.com/richardson-t/sedfitter>  
protostellar\_evolution (fork), [https://github.com/richardson-t/protostellar\\_evolution](https://github.com/richardson-t/protostellar_evolution)

## Teaching Experience

### *Courses*

Summer 2023      Instructor/TA — IDS 2935, Knowledge and the Universe  
Spring 2020      Instructor/TA — AST 1022-L, Astronomy Laboratory  
Fall 2019          TA — AST 2003, Intro to the Solar System

### *Workshops*

UF Preparing Future Faculty, Fall 2023

### *Certifications*

CIRTL Associate

## Events

### *Conferences*

Puzzles of Star Formation II (2025) - Contributed talk  
Star Formation/Machine Learning (2024) - Contributed talk  
McKnight Annual Fellows' Meeting (2024) - Invited talk, panel chair  
Olympian Symposium (2023) - Poster  
From Stars to Galaxies II (2022) - Poster  
AAS 237 (2021) - Contributed talk

### *Talks*

Max Planck Institute/MPE (2025) - Invited talk  
Origins Seminar (2024) - Invited talk  
University of Alberta (2024) - Colloquium

### *Workshops*

code/astro (2023)

## Honors

McKnight Doctoral Fellowship (2019-2024)  
Best Poster, Olympian Symposium (2023)

**AAS Travel Grant, Olympian Symposium (2023)**

## **Outreach**

**UF CTO/RHO (as available)**

**UF Starry Night**