Theodore Richardson | Postdoctoral Associate

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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

Postdoctoral Associate — University of Florida	Current
Graduate Research Assistant — University of Florida	2020 - 2025
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
- Radiative transfer
- Machine learning/computational methods
- 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

An updated modular set of synthetic spectral energy distributions for young stellar objects [Data set] (**Richardson** et al.), doi: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

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