

# Raphael E. Hviding

ASTRONOMER · GRADUATE STUDENT · HE/HIS

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## Education

### Steward Observatory, University of Arizona

Tucson, AZ

GRADUATE STUDENT

2018-PRESENT

- Astronomy and Astrophysics, Advisor: Professor Marcia J. Rieke & Professor Kevin N. Hainline

### Dartmouth College

Hanover, NH

BACHELOR OF ARTS

2014-2018

- Physics Major with High Honors, Mathematics Major, and Astronomy Minor

## Research

### Steward Observatory

Tucson, AZ

GRADUATE STUDENT UNDER PROFESSOR MARCIA RIEKE AND PROFESSOR KEVIN HAINLINE

Aug. 2018 - PRESENT

- JWST NIRCам Extragalactic Science Team member working on the GTO JADES survey and the JAGUAR mock catalog.
- Spectroscopic properties of mid-IR selected AGNs using SDSS and WISE.
- Development of flexible AGN spectrum emission line fitting code.

### Dartmouth College

Hanover, NH

UNDERGRADUATE STUDENT UNDER PROFESSOR RYAN HICKOX

Apr. 2015 - Jun. 2018

- Testing Wide-field Infrared Survey Explorer infrared color selection of AGN with optical spectroscopy from SALT.
- Measuring the galactic scale effects of the AGN in NGC 1068 using SALT Fabry-Perot Spectroscopy.

### Space Telescope Science Institute

Baltimore, MD

RESEARCHER STUDYING ACTIVE GALACTIC NUCLEI UNDER DR. IVA MOMCHEVA AND DR. GABRIEL BRAMMER

Apr. 2017 - Jun. 2017

- Studying the non-AGN origin of extended LIER emission using Hubble Space Telescope slitless grism spectroscopy.

## Publications

“Simulating JWST/NIRCам Color Selection of High-Redshift Galaxies”, Kevin N. Hainline, **Raphael E. Hviding**, et al., 2020ApJ...892..125H

“Characterizing the WISE-selected Heavily Obscured Quasar Population with Optical Spectroscopy from the Southern African Large Telescope”, **R. E. Hviding**, et al., 2018MNRAS.474.1955H

“Spatially Extended Low Ionization Emission Regions (LIERs) at  $z \sim 0.9$ ”, **Raphael E. Hviding**, et al., 2018ApJ...868...16H

“NuSTAR and Keck Observations of Heavily Obscured Quasars Selected by WISE”, W. Yan, R. C. Hickox, K N. Hainline, D. Stern, G. Lansbury, D. M. Alexander, **R. E. Hviding**, et al., 2019ApJ...870...33Y

## Conferences

Jun. 2019 **IAU Galaxies 2019:** Poster presenter

Viana do Castelo

Nov. 2018 **Advances with SALT:** Speaker

Pretoria

Nov. 2017 **Ivy League Undergraduate Research Symposium:** Poster presenter

UPenn

Aug. 2016 **Hidden Monsters:** Support staff

Dartmouth

Jun. 2016 **Active Galactic Nuclei: What's in a name?:** Poster presenter

Garching

## Honors & Awards

2018 **Awarded:** National Science Foundation Graduate Research Fellowship Travel Grant

NSF

2018 **Awarded:** College of Science Fellowship

U. of AZ

2018 **Awarded:** International Travel Grant

AAS

2017 **Awarded:** E.E. Just Scholar

Dartmouth College

2016 **Awarded:** James O. Freedman Presidential Scholar

Dartmouth College