

Raphael E. Hviding

ASTRONOMER · GRADUATE STUDENT

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Research

Steward Observatory

Tucson, AZ

GRADUATE STUDENT UNDER PROFESSOR MARCIA RIEKE AND POSTDOC KEVIN HAINLINE

Aug. 2018 - PRESENT

- JWST NIRCам Extragalactic Science Team member working with the JAGUAR mock catalog on galaxy shapes.
- Developing tools to extract higher-order morphological parameters from high-redshift galaxies in NIRCам images.

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

“Characterizing the WISE-selected Heavily Obscured Quasar Population with Optical Spectroscopy from the Southern African Large Telescope”, **R. E. Hviding**, et al., published in the Monthly Notices of the Royal Astronomical Society, arXiv: 1711.01269

“Spatially Extended Low Ionization Emission Regions (LIERs) at $z \sim 0.9$ ”, **R. E. Hviding**, et al., published in the Astrophysical Journal, arXiv: 1810.02819

“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., published in the Astrophysical Journal, arXiv: 1811.02585

Conferences

IAU Galaxies 2019

Viana do Castelo, Portugal

UNCOVERING EARLY GALAXY EVOLUTION IN THE ALMA AND JWST ERA.

Jun. 2019

Hidden Monsters

Dartmouth, Hanover

UNDERSTANDING OBSCURED AGN IN THE ERA OF NUSTAR AND WISE

Aug. 2016

Active Galactic Nuclei: What's in a name?

Garching, Germany

A WORKSHOP CENTERED AROUND FORMING A MULTI-WAVELENGTH UNDERSTANDING OF AGN

Jun. 2016

- Presented a Poster on current research in the field.

Honors & Awards

2019	Awarded: National Science Foundation Graduate Research Fellowship
2018	Awarded: College of Science Fellowship
2018	Awarded: International Travel Grant
2017	Awarded: E.E. Just Scholar
2016	Awarded: James O. Freedman Presidential Scholar

NSF

U. of AZ

AAS

Dartmouth College

Dartmouth College

Computing Experience

Languages: **Python, MATLAB**

Software: **IRAF, LaTeX**