

Raphael E. Hviding

ASTRONOMER · GRADUATE STUDENT · HE/HIS

Steward Observatory, 933 N Cherry Ave, Tucson, AZ 85719

✉ rehviding@email.arizona.edu | 🏠 as.arizona.edu/~rehviding | 📺 TheSkyentist | 📺 rehviding

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

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

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