

el E. Hviding

ASTRONOMER · PHD CANDIDATE · HE/HIS

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Research

Steward Observatory

Tucson, AZ

PHD CANDIDATE UNDER PROFESSOR MARCIA RIEKE AND PROFESSOR KEVIN HAINLINE

Aug. 2018 - Present

- Developing routines for finding high-redshift galaxies in the upcoming JADES survey (in prep.)
- Finding new AGN with MMT follow-up spectroscopy of novel machine learning AGN selection trained on HSC and WISE (in prep.).
- Created a new mid-IR color criterion for AGN down to lower luminosities based on SDSS spectroscopy and WISE.
- Refined dropout selection techniques as a NIRCam Extragalactic Science Team Member for upcoming JWST surveys.

Dartmouth College Hanover, NH

Undergraduate Student under Professor Ryan Hickox

Apr. 2015 - Jun. 2018

- Characterized potential kiloparsec scale light echoes of the AGN in NGC 1068 using SALT Fabry-Perot Spectroscopy (in prep.).
- Testing Wide-field Infrared Survey Explorer infrared color selection of AGN with optical spectroscopy from SALT.

Space Telescope Science Institute

Baltimore, MD

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

Apr. 2017 - Jun. 2017

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

Education

Department of Astronomy & Steward Observatory, University of Arizona

Tucson, AZ

MASTERS OF SCIENCE

2018 - 2021

· Major and Minor in Astronomy & Astrophysics. Advisors: Professor Kevin N. Hainline & Professor Marcia J. Rieke

Dartmouth College Hanover, NH

BACHELOR OF ARTS

2014 - 2018

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

Honors & Awards

2022	Awarded: Department of Astronomy Graduate Student Award for Service	UArizona
2018	Awarded: National Science Foundation Graduate Research Fellowship	NSF
2018	Awarded: College of Science Fellowship	UArizona
2018	Awarded: International Travel Grant	AAS
2017	Awarded: E.E. Just Scholar	Dartmouth College
2016	Awarded: James O. Freedman Presidential Scholar	Dartmouth College

Computing _____

Developer:

Galaxy/AGN Emission Line Analysis TOol (GELATO)

Python Code for Fitting Optical Spectroscopy

Programming: Python, Linux, SQL, HTML, GitHub, LTEX, SLURM, PBS

Languages_

Native: **English**

Spanish, French (Basic) Spoken:

Written: Spanish