

Raphael E. Hviding

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Research

Dartmouth College

Hanover, NH

RESEARCH ASSISTANT STUDYING ACTIVE GALACTIC NUCLEI UNDER PROFESSOR RYAN HICKOX

Apr. 2015 - PRESENT

- Reduction and Analysis of Southern African Large Telescope spectroscopic observations of AGN candidates.
- Testing infrared color selection of AGN using the Wide-field Infrared Survey Explorer.
- Reduction and Analysis of SALT Fabry-Perot Interferometry of nearby AGN.

National Aeronautics and Space Administration

Greenbelt, MD

INTERN STUDYING SOLAR WIND MODELS UNDER DR. CHARLES ARGE

Jun. 2017 - Aug. 2017

- Validation of solar wind models using plasma measurements from near-Earth satellites.

Space Telescope Science Institute

Baltimore, MD

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

Apr. 2017 - Jun. 2017

- Analysis of Hubble Space Telescope slitless grism spectroscopy of Active Galactic Nuclei.
- Using line maps of X-ray detected AGN to understand spatially resolved features of the objects.

Publications

“Characterizing the WISE-selected Heavily Obscured Quasar Population with Optical Spectroscopy from the Southern African Large Telescope”, **Raphael E. Hviding**, Ryan C. Hickox, Kevin N. Hainline, Christopher M. Carroll, Michael A. DiPompeo, Wei Yan, and Mackenzie L. Jones, 2017, *Monthly Notices of the Royal Astronomical Society* accepted (arxiv: 1711.01269)

Education

Dartmouth College

Hanover, NH

BACHELOR OF ARTS

2014 - PRESENT

- Physics Major, Mathematics Major, and Astronomy Minor

Conferences

Ivy League Undergraduate Research Symposium

UPenn, Philadelphia

PROMOTING UNDERGRADUATE RESEARCH AND FACILITATE A RESEARCH-ORIENTED COMMUNITY IN THE IVY LEAGUE.

Nov. 2017

- Presented a Poster on current research in astronomy.

Hidden Monsters

Dartmouth, Hanover

UNDERSTANDING OBSCURED AGN IN THE ERA OF NuSTAR AND WISE

Aug. 2016

- Assisted in organization and logistics of the conference.
- Presented a Poster on current research in the field.

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

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

Dartmouth College

2016 **Awarded:**, Neukom Travel Grant

Neukom Institute

2016 **Awarded:**, Student Mini Grant

Rockefeller Center

2016 **Awarded:**, E.E. Just Scholar

Dartmouth College

Computing Experience

Intermediate: **Python, MATLAB, IRAF, \LaTeX , Unix, Microsoft Office,**

Basic: **HTML, Java, Mathematica, IDL,**