

# Hannah Richstein

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## Education

*The University of Virginia*, Charlottesville, VA  
M.S. Astronomy  
Cumulative GPA 3.96  
May 2020

*Texas Christian University*, Fort Worth, TX  
B.S. Astronomy and Physics  
B.A. Modern Language Studies: French  
Cumulative GPA 3.88  
May 2018

## Research Experience

- Fall 2018 – Research Assistant, The University of Virginia  
Advisor: Prof. Nitya Kallivayalil  
Project: “*The characterization of ultra-faint dwarf galaxies and “satellites of satellites” with HST*”
- Fall 2015 – Research Assistant, Texas Christian University  
Spring 2018 Advisor: Prof. Kat Barger  
Project: “*Galaxy evolution in MaNGA*”
- Summer 2017 Research Experience for Undergraduates, Harvard-Smithsonian Center for Astrophysics  
Advisor: Dr. Yuanyuan Su  
Project: “*Chandra observations of Abell 586: a weak cool-core cluster in transition*”
- Summer 2016 Research Experience for Undergraduates, Vanderbilt University  
Advisor: Prof. Andreas Berlind  
Project: “*The environmental dependence of the stellar mass function in the ECO catalog*”

## Honors and Awards

- Spring 2020 Virginia Space Grant Consortium Graduate Fellowship  
Spring 2018 NSF Graduate Research Fellowship Program Honorable Mention

## Observing Proposals

- Spring 2020 Co-I, Near Field Cosmology with Ultra-Faint Dwarfs: Patchy Reionization and Sub-Solar Initial Mass Function,  
*Hubble Space Telescope*, Cycle 28 General Observer Time, ID 16293, 5 cycles

## Teaching Experience

- Spring 2019 Teaching Assistant, *ASTR 1210: Introduction to the Sky and Solar System*  
*ASTR 1220: Introduction to Stars, Galaxies, and the Universe*
- Fall 2018 Teaching Assistant, *ASTR 1230: Introduction to Astronomical Observation*

**Oral Presentations**

“*Why Dwarf Galaxies (Dark) Matter*”

Summer 2019 McCormick Public Night, The University of Virginia, Charlottesville, VA

“*Abell 586: A Weak Cool-Core Cluster in Transition*”

Summer 2017 NSF REU, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA

“*The Dependence of Galaxy Properties on Environment*”

Fall 2016 Texas Astronomy Undergraduate Research Symposium, Baylor University, Waco, TX

Summer 2016 NSF REU, Vanderbilt University, Nashville, TN

**Poster Presentations**

“*Using deep HST photometry to characterize ultra-faint dwarfs and “satellites of satellites” ,*”

Richstein, Sacchi, Zivick, Kallivayalil, Libralato, van der Marel  
& MW6D Collaboration

Fall 2020 The 2020 STScI Virtual Symposium - The Local Group: Assembly and Evolution,  
Space Telescope Science Institute, Baltimore, MD

“*Deep Chandra Observations of Abell 586: A Remarkably Relaxed Non-Cool Core Cluster,*”

Richstein & Su

Winter 2018 231st American Astronomical Society Meeting, National Harbor, MD

“*The Environmental Dependence of the Stellar Mass Function in the ECO Catalog,*”

Richstein, Berlind, Calderon, Eckert, Kannappan, Moffett, & Stark

Winter 2017 Conference for Undergraduate Women in Physics, Rice University, Houston, TX

Winter 2017 229th American Astronomical Society Meeting, Grapevine, TX

**Skills**

Computer

Windows

Mac OS X

Unix Command Line

Programming

Python, C

IDL

L<sup>A</sup>T<sub>E</sub>X

**Scientific Outreach Activities**

2019– Graduate-Undergraduate Astronomy Committee Member, Department of Astronomy

2019– Program Coordinator - Astronomy Mentoring Program, Department of Astronomy

2018– Dark Skies, Bright Kids - Weekly After-School Programs, Charlottesville

2019 UVA-Spelman Summer Research Program Mentor