

# Claire Finley

## Curriculum Vitae

✉ cfinley@utexas.edu    ☎ +1(847)284-7300    ORCID 0000-0002-9884-9584

### Education

<b>Ph.D. Astronomy, The University of Texas at Austin</b> Advisor: Dr. Brendan P. Bowler	August 2023 – Present
<b>B.S. Astronomy and Astrophysics, Villanova University</b> <i>Minors in Physics and Art History</i> GPA: 3.67 (cum laude)	August 2019 – May 2023

### Experience

<b>The University of Texas at Austin</b> Graduate Research Assistant	<i>Austin, TX</i> August 2023 – Present
<b>NASA Goddard Space Flight Center</b> OSTEM Summer Intern	<i>Greenbelt, MD</i> June 2022 – August 2022
<b>Green Bank Observatory &amp; National Radio Astronomy Observatory</b> Research Experience for Undergraduates (REU)	<i>Green Bank, WV</i> June 2021 – August 2021
<b>Villanova University</b> Teaching Assistant Undergraduate Research Assistant Public Observatory Attendant	<i>Villanova, PA</i> January 2021 – May 2023 January 2020 – May 2021 August 2019 – March 2020
<b>Adler Planetarium</b> Citizen Science and Space Visualization Intern	<i>Chicago, IL</i> June 2018 – August 2018

### Research Interests

- Formation and evolution of giant planets with direct imaging
- Jointly constraining planetary accretion processes and circumplanetary disk properties

### Awards and Honors

Jason A. Cardelli Memorial Award for Undergraduate Research	April 2023
Sigma Pi Sigma Physics Honor Society	February 2023
John Mather Nobel Scholarship	July 2022
Certificate of Achievement in Ethical Leadership	November 2020

### Presentations

<b>Parent Volatile Composition of Jupiter-Family Comet 41P/Tuttle-Giacobini-Kresák as Measured with Keck NIRSPEC</b> <i>Claire Finley</i> , Adam J. McKay, et al. <a href="#">Division for Planetary Sciences Meeting #54, Talk ID 101.04</a> <a href="#">🔗</a>	October 2023
<b>Investigating Triggered Star Formation in Bright-Rimmed Cloud SFO 14</b> <i>Claire Finley</i> , Larry Morgan <a href="#">American Astronomical Society Meeting #240, iPoster ID 103.10</a> <a href="#">🔗</a>	June 2022

## Leadership and Mentorship

---

### **The University of Texas at Austin**

August 2023 – Present

Graduate mentor: Graduate-Undergraduate Mentorship in astronoMY program

### **Villanova University**

President: Villanova Astronomical Society

April 2022 - May 2023

Treasurer: Villanova Astronomical Society

April 2021 - April 2022

Student mentor: Astrophysics Mentorship Program

August 2020 - May 2023

## Outreach

---

### **Astronomy on Tap ATX**

September 2024 - Present

Host and member of leadership team

## Computational Proficiency and Instrument Experience

---

**Languages:** Python, IDL, S-Lang, SigmaPlot, Swift

**Instrument experience:** NIRSPEC and OSIRIS at W.M. Keck Observatory; NASA IRTF iSHELL on Maunakea; 30-inch telescope at McDonald Observatory

**Technical Skills:** CCD imaging, photometry, spectroscopy, modeling dynamical systems, stochastic and deterministic modeling, simulated annealing, linear programming, artificial neural networks, Fourier transforms and signal processing, high-performance cluster computing