

Cassie Sevilla

Email: (work) jms949@cornell.edu

Phone Number: (352) 249-8970

Education

- **Cornell University**, Ithaca NY (Aug 2023 – Present)
 - Ph.D. Candidate in Astronomy and Space Sciences
 - Advised by Dr. Anna Ho (*Cornell*)
- **California Institute of Technology**, Pasadena CA (Sep 2019 – June 2023)
 - B.S. in Astrophysics

Publications

- Sevilla, J., Behmard, A. and Fuller, J. “Long-Term Lithium Abundance Signatures Following Planetary Engulfment.” *Monthly Notices of the Royal Astronomical Society* 516.3 (2022): 3354-3365. <https://doi.org/10.1093/mnras/stac2436>.
- Behmard A., Sevilla J., Fuller J. “Planet Engulfment Signatures in Twin Stars.” *Monthly Notices of the Royal Astronomical Society* 518.4 (2022): 5465-5474. <https://doi.org/10.1093/mnras/stac3435>.

Research Fellowships

- Using GALEX Photometry to Search for Evidence of Star-Planet Interaction (SPI)
 - Worked with Dr. Raghvendra Sahai to develop a pipeline that compares GALEX data for stars with and without confirmed exoplanets. [**Caltech Summer Undergraduate Research Fellowship (SURF) 2022**]
- Modeling the Effects of Planetary Engulfment on Stellar Lithium Abundance
 - Worked with Dr. Jim Fuller to predict the effect of planetary engulfment on a star’s lithium abundance using Modules for Experiments in Stellar Astrophysics (MESA). [**Caltech SURF 2021**]

Awards

- Honorable Mention – NSF Graduate Research Fellowship Program (2024)

Conferences/Workshops

- Shaping the Future of Time Domain Astronomy in the Rubin Era (talk)¹ (May 2025)
- 20th NRAO Synthesis Imaging Summer School (May 2024)

Outreach

- Volunteered at a Museum of the Dark at Ithaca’s Museum of the Earth (Oct 2024)
 - Manned a station demonstrating crater formation for K-5 children

Teaching

- Cornell graduate TA/grader: (August 2023 – Present)
 - Led discussion sections, graded homework, created discussion section worksheets
- Caltech undergraduate TA/grader: (January 2022 – June 2023)
 - Graded weekly homework

¹ Upcoming