

ELIZABETH GONZALEZ

<https://elizgonz.github.io> | ELIZGONZ@PSU.EDU

EDUCATION

Pennsylvania State University Ph.D. in Astronomy & Astrophysics M.S. in Astronomy & Astrophysics	August 2023 - Present Ongoing May 2025
Columbia University B.A. in Astrophysics	September 2019 - May 2023 <i>Dean's List</i>

PROFESSIONAL APPOINTMENTS & EXPERIENCE

Graduate Research Assistant and Fellow Pennsylvania State University <i>Supervisor: Prof. Eric Ford & Prof. Suvrath Mahadevan</i>	August 2023 - Present
Undergraduate Research Assistant Columbia University <i>Supervisor: Dr. Hui Li</i>	May 2021 - May 2023
Summer Research Intern NASA Jet Propulsion Lab <i>Supervisor: Dr. Jennifer Burt</i>	May 2022 - July 2022
Undergraduate Research Assistant University of Florida <i>Supervisor: Prof. Sarah Ballard</i>	May 2020 - June 2021

SELECTED HONORS & FELLOWSHIPS

Annual Astronomy Department Climate Award Pennsylvania State University, Astronomy & Astrophysics	Spring 2026
Zaccheus Daniel Scholarship Honorable Mention Pennsylvania State University, Astronomy & Astrophysics	Fall 2025
Graduate Research Fellowship National Science Foundation	Spring 2024
Bunton-Waller Fellowship Pennsylvania State University	Fall 2023

COMPUTER SKILLS

Languages	Python, Julia, CUDA
Software & Tools	LaTeX, GitHub

PUBLICATIONS

- Wright, J. T., **Gonzalez, E. B.**, et al. *A Simple One-free-parameter Model of the Solar Chromosphere Explains Solar Chromospheric Line Variations Measured by NEID at WIYN during the 2023 October Solar Eclipse*, 2026, [Research Notes AAS, 10, 14](#)
- Palumbo, M. L., Ford, E. B., **Gonzalez, E. B.**, et al. *GRASS II: Simulations of Potential Granulation Noise Mitigation Methods*, 2024, [AJ, 168, 46](#)

SELECTED PRESENTATIONS

Using Solar Eclipses to Advance Granulation and Rossiter-McLaughlin Models

- **Contributed Talk**, IAUS 400: Solar and Stellar Multi-Scale Activity July 2025
- **Poster**, Extreme Precision Radial Velocity 6 July 2025
- **Contributed Talk**, Know Thy Star, Know Thy Planet 2 February 2025
- **Contributed Talk**, Emerging Researchers in Exoplanet Science 9 July 2024

SELECTED SERVICE & OUTREACH

Guest Lecturer, Pennsylvania State University

- PSU ASTRO 1, *Exoplanet Detections* for Prof. Abe Falcone April 13, 2026

Committee Membership, PSU Astronomy & Astrophysics

- Climate and Diversity Committee Spring 2026 - Present
- Recruitment Committee Fall 2024 - Present
- Outreach Committee Fall 2024 - Present

Founder and Leader, PSU Astronomy & Astrophysics

- Undergraduate-Graduate Mentorship Program Fall 2025 - Present
- Ask An Astronomer Outreach Series Summer 2025

Research Mentorship, PSU Astronomy & Astrophysics

- Students Together for Astronomy Research Spring 2026

Outreach Talks, State College PA

- Solar Eclipse Talk Series at Elementary Schools Fall 2023 - Spring 2024

TELESCOPE & FUNDING PROPOSALS

Investigating Opposition Surge Effect of Europa

- **Hobby Eberly Telescope**, 2026-1 (13.75 hours allocated, 13.75 hours requested)
- **Hobby Eberly Telescope**, 2025-3 (3.47 hours allocated, 2 hours requested)
- **WIYN 3.5m Telescope**, 2025B (16 hours allocated, 16 hours requested)

Larry Travis Fellowship, PSU Astronomy & Astrophysics (\$600)

Spring 2025

Travel Grant, PSU Center for Planet & Exoplanet Science & Technology (\$2423)

Fall 2024

Zaccheus Daniel Fellowship, PSU Astronomy & Astrophysics (\$900)

Fall 2024