

Ann Sinclair

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Technological Institute
Evanston, IL 60208-3130

EDUCATION

Northwestern University, Evanston, IL September 2023 – Present

- PhD in Earth and Planetary Sciences, Supervisor: Dr. Daniel Horton

Swarthmore College, Swarthmore, PA May 2023

- B.A. in Astronomy and Environmental Studies (double major), GPA: 4.00 out of 4.00

Gwynedd Mercy Academy High School, Gwynedd Valley, PA June 2019

- High school diploma, GPA: 102 out of 100

EXPERIENCE

Astronomy Research Assistant, Swarthmore, PA May 2021 – May 2023

Swarthmore College Department of Physics and Astronomy

Advisor: Dr. Eric Jensen

- Identified young eclipsing binary stars using Transiting Exoplanet Satellite Survey data
- Modeled data to determine stellar and orbital parameters of target binary systems
- Obtained and analyzed ground-based photometric and spectroscopic observations

Green Teams Intern, Montclair, NJ Summer 2022

PSEG Institute for Sustainability Studies, Montclair State University

- Promoted NJ Natural Gas SAVEGREEN Project® energy efficiency programs in overburdened communities
- Worked as part of an interdisciplinary team of five undergraduate students
- Generated informational maps using ArcGIS Pro
- Collaborated with community non-profit Interfaith Neighbors to plan and hold in-person outreach events

Astronomy Research Assistant, Swarthmore, PA Summer 2020

Swarthmore College Department of Physics and Astronomy

Advisor: Dr. Deborah Schmidt

- Analyzed radio observations of planetary nebulae for detections of HCN and HCO⁺
- Assisted in writing a proposal for observation time on the ARO Submillimeter Telescope

Teaching Assistant, Swarthmore, PA August 2020 – May 2023

Swarthmore College Department of Physics and Astronomy

- Held assistant positions in Spacetime and Quanta, Astronomy, and Climate Science courses
- Aided students with homework and in-class problems
- Worked with professors to create lesson plans, write test questions, and improve classes

Teaching Assistant, Swarthmore, PA August 2020-May 2021

Swarthmore College Linguistics Department

- Assisted students with homework and concept comprehension
- Worked with professors to plan course work and evaluated written assignments

SKILLS/CERTIFICATIONS

- Python; LaTeX; Adobe InDesign; ArcGIS Pro; Microsoft Excel, Powerpoint, and Word
- Editing and revision of creative and technical writing
- Certifications in teaching pedagogy (2020), science communication (2022), and leadership (2022)

ACTIVITIES

Secretary/Co-Founder, SwatVotes Club, Swarthmore College

February 2020 – May 2023

Writer, Phoenix Newspaper, Swarthmore College August 2019 – May 2023

Participant, Bi-College Social Justice Institute, Swarthmore College August 2019

HONORS/AWARDS

Oak and Ivy Award, Swarthmore College 2023

William C. Elmore Prize, Swarthmore College Department of Physics and Astronomy 2023

Phi Beta Kappa, Swarthmore College 2023

Sarah Kaighn Cooper Scholarship, Swarthmore College 2022

PUBLICATIONS/PRESENTATIONS

Schmidt, D., Gold, K., Sinclair, A., Bergstrom, S., Ziurys, L. HCN and HCO⁺ in Planetary Nebulae: The Next Level. *The Astrophysical Journal*, vol. 927, no. 1, 2022, p. 46.

DOI:10.3847/1538-4357/ac4474

Sinclair, A., Parts, C., Jensen, E., McLeod, K., Collins, K., Kielkopf, J. Discovering Young Eclipsing Binary Systems with TESS. Poster presented at: TESS Science Conference II; August 2 & 5, 2021