
Ilana Bromberg

she/her/hers

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github.com/ibromberg

Purdue University, *West Lafayette, IN*

PhD Student (Began Fall 2021)

Department of Physics

Stony Brook University, *Stony Brook, NY*

Bachelor of Science, May 2020

Women in Science & Engineering Honors Program

Majors: Physics and Astronomy, Minor: Art History

GPA: 3.62

RESEARCH EXPERIENCE

Geophysical Modeling in COMSOL

West Lafayette, IN

PhD Student at Purdue University, Fall 2021 — present

- Modeling the Basin and Range region in COMSOL to examine long-term geophysical processes present in the area

Columbia REU - Radiological Accelerator Research Facility (RARAF)

Nevis Labs, Irvington, NY

Research Intern, Summer 2019

- Designed physical collimation for a neutron spectrum to limit radiation exposure on a mouse sample to the chest cavity - done in MCNP
- Gave a half hour presentation on results
- Created and presented a poster of results for the Conference for Undergraduate Women in Physics (CUWiP)

WORK EXPERIENCE

Women in Science & Engineering (WISE)

Stony Brook, NY

Student Mentor, Sept. 2019 – May 2020

- Mentored and advised three freshmen in the WISE program with declared physics/astronomy majors
- Introduced them to useful coding concepts
- Helped them choose classes and organize schedules
- Gave professional, personal, and academic advice

Vanderbilt Planetarium

Centerport, NY

Astronomy Educator/ Console Operator, Dec. 2019 – July 2021

- Operated the Konica Minolta and Digital Sky hybrid planetarium system
- Gave star talks to the general public at various levels of complexity

SKILLS

Computational

- Python (highly proficient), Java (intermediate), C++/ROOT (intermediate), Fortran (working knowledge)
- Matlab (proficient), MCNP (intermediate), Github (proficient)
- Microsoft Office (highly proficient)

Other

- Well versed in data and error analysis
- Comfortable working with large data sets
- Experience working with Photoshop and other image editing programs
- Experience in public speaking from the Alan Alda Center for Communicating Science & the Vanderbilt Planetarium
- Skilled presenter of scientific concepts
- Intermediate Mandarin Chinese speaker

AWARDS AND HONORS

Presidential Scholarship, 2016 – present

- Full academic scholarship at Stony Brook University

CAS Dean's Excellence Scholarship, 2016

- \$1000 merit-based scholarship

Dean's List

- Fall 2016, Spring 2017, Fall 2017, Spring 2018, Spring 2019, Fall 2019

Graduation Honors

- Cum Laude
- Departmental Honors in Physics