
Ilana Bromberg

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github.com/ibromberg

EDUCATION

Stony Brook University, Stony Brook, NY
Bachelor of Science, May 2020
Women in Science and Engineering (WISE) Honors Program
Majors: Physics and Astronomy
Minor: Art History
GPA: 3.62

RESEARCH EXPERIENCE

Weinacht Group for Ultrafast Spectroscopy & Coherent Control

Stony Brook, NY

Research Student, Sept. 2018 – Jan. 2020

- Laser spectroscopy research under the guidance of Professor T. Weinacht
- Analysis of isotopes under vacuum ultraviolet (VUV) radiation
- Analysis of code recreating the two-level atom

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

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 – present

- Operates the Konica Minolta and Digital Sky hybrid planetarium system
- Gives star talks to the general public at all ages

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