

# MEREDITH ESTRELLA HERNANDEZ

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## EDUCATION

**Bowdoin College**, Brunswick, ME

**Bachelor of Arts**, Major: Math and Computer Science, Minor: Physics

**Spring 2025**

Awards: AMS Trjitzinsky Award, Bowdoin Math Award, SACNAS Travel Scholarship

Published Work: "Snow" in The Quill, Bowdoin-Run Magazine

Languages: Spanish (Advanced)

## RELEVANT COURSEWORK

Data Structures, Algorithms, App Development, Mathematical Reasoning, Linear Algebra, Quantum Physics, Ordinary Differential Equations, Foundations in Systems, Machine Learning, Electrical Fields and Circuits

## WORK EXPERIENCE

**National Institute of Standards and Technology**, Bowdoin College

**Summer 2025**

*SURF Research Assistant*

Gaithersburg, MD

- Working in the Engineering Lab of the SURF NIST research program this summer.
- Program a Raspberry Pi to emulate an HVAC controller.
- Exploring the potential for intelligent agents to improve the performance of HVAC controls in commercial buildings as well as documenting the process and determining the limitations of the system.

**Economics Department**, Bowdoin College

**Fall 2024-Spring 2025**

*Research Assistant*

Brunswick, ME

- Compiled data from 500 athlete profiles into an Excel file, supporting an honors project by providing accurate and comprehensive datasets. Utilized Python libraries such as requests and os to automate data retrieval and processing tasks.
- Collected data for 3000+ photos on their resolution, noise and sharpness

**Baldwin Center for Learning and Teaching**, Bowdoin College

**Fall 2022 – Spring 2025**

*Data Structures Learning Assistant*

Brunswick, ME

- Helped teach university course on data structures and basic algorithms using Java
- Reviewed student work to provide feedback and help them learn problem solving skills

**Math Department**, Bowdoin College

**Fall 2024**

*Probability Grader*

Brunswick, ME

- Graded weekly probability assignments for undergraduate students, ensuring adherence to course standards and grading rubrics. Provided constructive and detailed feedback on students' work.

**Sponsors for Educational Opportunity**

**Spring 2023 – Spring 2024**

*Software Engineering Intern*

Remote

- Completed 300+ hours of rigorous computer science and software engineering training focused on full-stack development, data structures, and algorithms
- Gained expertise in web application development by working in teams to design, test, and implement projects using Python (Flask), HTML, CSS, and MySQL

**Office for Residential Life**, Bowdoin College

**Fall 2022 – Spring 2023**

*Proctor*

Brunswick, ME

- Collaborated with team to coordinate and host programs and events to ensure the wellness of students living in first year dorms
- Shared campus activities and resources, helped resolve conflicts between roommates, and enforce the dorm rules

## SKILLS AND INTERESTS

Technical Skills: Java, Python, HTML, CSS, SQL

Soft Skills: Adaptability, Problem Solving, Creative Thinking, Self-Awareness, Empathy

Interests: Photography, Sewing thrifted clothes, Listening to Music and dj-ing for WBOR 91.1 FM.