

# Gemma W. Shay

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## EDUCATION

**Wesleyan University**, Middletown, CT

**Bachelor of Arts** in Physics; GPA: 3.64/4.00

**May 2018**

*Wesleyan University's 2018 Outstanding Contribution to Science Education Award*

*Wesleyan University's 2015 Johnston Prize in Physics*

## SKILLS

Scala, Java, Spark, Flink, SQL, Git, Python, R, C, Arduino C, HTML/CSS, JavaScript, Mathematica

Knowledge of basic electronics, circuitry, and robotics

## WORK EXPERIENCE

**Bank of America Merrill Lynch**, New York, NY

*Software Developer*

**October 2018-Present**

- Programmer for non-financial regulatory reporting software under Global Technology and Operations
- Contributed to products such as a query processing DSL (Scala, Spark, Flink), the front-end interface of reporting software (HTML, CSS, JavaScript), and PDF and Excel report generation software (Scala, iText, Apache POI). The majority of my work is back-end programming and testing in Scala.

**Girls Who Code**, New York, NY

*Instructor, Summer Immersion Program – Bank of America*

**June-August 2018**

- Prepared and led lesson plans in Scratch, Python, Robotics, Web Development, and Data Science for a class of 20 high school students
- Managed class logistics, oversaw field trips and events, and worked with two teaching assistants to maintain a safe and enjoyable classroom environment

**Wesleyan University**, Middletown, CT

*Peer Tutor, General Physics I, II*

**October 2017-May 2018**

- Provided supplementary course instruction and mentorship to individual students enrolled in physics courses

**Wesleyan Physics Department**, Middletown, CT

*Course Assistant, General Physics II*

**January 2018-May 2018**

*Course Assistant, Waves and Oscillations*

**September-December 2016**

*Course Assistant, General Physics I*

**September-December 2015**

- Led weekly study sessions as well as exam review sessions for over 25 students
- Assisted with homework problems, answered students' questions, communicated with their professors regarding the progress of the class

**Morgan Lab**, Wesleyan University, Middletown, CT

*Research Fellow*

**May-August 2016**

- Assisted professor and graduate students in performing molecular spectroscopy experiments
- Completed a personal project simulating the orbits of Rydberg atoms in Mathematica

*Research Assistant*

**January-May 2016**

- Assisted graduate students in experimental tasks, mechanical repairs, and collecting data
- Contributed to Morgan Lab's presentation at the 2016 American Physical Society DAMOP conference in Providence, RI

## VOLUNTEER EXPERIENCE

**United Student/Labor Action Coalition**, *Logistics Coordinator, Financial Contact*

**January 2016-May 2018**

**Wesleyan Concert Committee**, *Event Organizer*

**November 2015-May 2018**

**Long Lane Farm**, *Volunteer*

**September 2016-May 2018**