

## **Education**

**Drew University**, Madison, NJ

Sep 2015 – present

- Physics major, Mathematics minor (GPA 4.00)

**The Juilliard School**, New York, NY

Sep 2015 – May 2016

- Cello Program

## **Work Experience**

**Drew University**, Madison, NJ

- University Tutor for the Center for Academic Excellence at Drew University. Tutored physics I and II, calculus I, II and III, pre-calculus, statistics, astronomy, biology, chemistry, organic chemistry. Jan 2017 – Jan 2020
- Private Tutor for high school and college students. Tutored chemistry, physics, pre-calculus, and calculus. Jan 2017 – present.
- Teaching assistant for special relativity class and counselor at New Jersey Governor's School in the Sciences. Jul 2019 – Aug 2019

## **Research Experience**

**Drew University**, Madison, NJ

- Research Assistant to Dr. Ryan Hinrichs. Studied adsorption rates of the atmospheric gas, Pinene, onto dust and sand samples through infrared spectroscopy under various humidity and temperature conditions. Worked with Gaussian and analyzed results with IGOR Pro. May 2017 – Aug 2017
- Research Assistant to Dr. Minjoon Kouh, studying eye-tracking while solving anagrams using Tobii studio software. Designed and tested a method to obtain 'clean' letter sequence data by altering color contrast, location, and size of stimuli. Conducted an IRB approved study with 29 college student participants. Currently using pandas to clean, prepare, and analyze the data involving 1.8 million rows and 38 columns, with the objective to apply machine learning techniques. Presentation at the University of Scranton Brain and Behavior Conference on March 7th. May 2019 – present

## **Additional Experience**

**Drew University**, Madison, NJ

- President of Math Club. Began weekly meetings on solving math problems and students giving talks about their projects or an interesting math-related topic. Began a professor talk series in which – three times a semester – a quantitative professor at Drew gives a math-related talk. Jan 2019 – Jan 2020

**Morristown Medical Center**, Morristown, NJ

- Intern, Emergency Department. Assisted medical staff with patient intake and evaluation. Sep 2018 – Dec 2018

## **Skills**

- Fluent in Python and often use its libraries including NumPy, SciPy, Pandas, and Matplotlib. Working knowledge of C, R, and HTML.
- Use Calculus, differential equations, and linear algebra extensively.
- Data analytics and math/coding-related projects.

- Cello, piano, music theory, perfect pitch, and composition.

#### **Awards, Scholarships, Honors Societies**

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- Dean's Transfer Scholarship (Fall 2016) Drew University
- John F. Ollom Prize in Physics (Spring 2017) Drew University Physics Department
- Weddell Family Scholarship (Spring 2018) Drew University Physics Department
- Phi Beta Kappa: Inducted Spring 2018
- Sigma Pi Sigma: Inducted Spring 2019
- Arnold S. Boxer Memorial Prize in Physics (Spring 2019) Drew University Physics Department