

Andrew Kelly

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108 Boulevard
Pelham, NY

EDUCATION

High School Diploma

Currently enrolled in Pelham Memorial High School to graduate June 2022

RESEARCH EXPERIENCE

Science Research Program

Sep. 2018 - Sep. 2019

Pelham Memorial High School

- **Electrolysis to Produce Hydrogen:** Have researched into the workings of this process as well as researching into viable sources of energy for the process, mainly solar and generators.
- **Novel Organic Polymers in Luminescent Solar Concentrators:** Researched into utilizing the iSF properties of Quinoidal Bithiophene to create electricity in a luminescent solar concentrator.
- **Renewable Energy Pelham Project:** Researched the possibility of replacing all sources of electricity in Pelham with renewable energy. Provided me with further background information on the workings of turbines and solar panels.

High School Assistant Researcher (Prof. Jonathan S. Owen)

June 2020 - Present

Columbia University

- Analyzed the UV-Vis absorbance data created by PbS nanocrystals at different stages of growth to determine the presence of continuous nucleation and the effect of temperature on the nucleation fraction of the crystals.
- Adapted an industrial method of oleic acid purification down to a lab scale and investigated the importance of oleic acid purity in a variety of circumstances.

TEACHING EXPERIENCE

Tutoring

Sep. 2019 - Present

- Tutored two students in Algebra I and Geometry.

HONORS AND AWARDS

Genius Olympiad

June 2021

- Won the gold medal for the international science category.

Westchester Science and Engineering Fair

May 2021

- Won third place in the category of Chemistry and won the Most Outstanding Exhibit in Materials Chemistry award.