
Laura Cui

Montgomery Blair High School
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Education

Montgomery Blair High School, Silver Spring, MD

Junior, Science, Mathematics, and Computer Science Magnet Program

- 4.0 unweighted GPA
- Relevant coursework: Honors Physics, Calculus BC Equivalent, Multivariable Calculus and Differential Equations, Quantum Mechanics, Analysis of Algorithms

Activities: Astronomy Club (President), Physics Team (Co-captain), CubeSat, Science Bowl

Research Experience

SEPTEMBER 2017 - PRESENT

CubeSat, Montgomery Blair High School - Co-founder, Scientific Initiatives

- Develop science objectives and integrate data collection with satellite design

JUNE 2017 - AUGUST 2017

Space Science Division at Naval Research Laboratory, DC - Student Intern

- Science and Engineering Apprenticeship Program (SEAP)
- Processed data and performed attitude determination for LITES experiment on the ISS

SEPTEMBER 2016 - JANUARY 2017

Sophomore Science Research Project at Montgomery Blair High School

- Implemented VSOP87 in Java using generated functions
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Additional Skills

- Strong background in problem-solving and mathematics, including knowledge of calculus, partial differential equations, and linear algebra
 - Basic knowledge of physics and astronomy
 - Strong computer programming skills including Python, Java, and MATLAB
 - Experience teaching enrichment for elementary students
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Awards and Honors

2017 **Science and Engineering Apprenticeship Program 2nd Place Award**

For excellent presentation of apprenticeship project

2016, **American Mathematics Competition Certificate of Distinction**

2017 *For superior performance on the American Mathematics Contest and qualifying to compete in the American Invitational Mathematics Examination*

2017 **Maryland Science Bowl High School Regional Competition Second Place**

Montgomery Blair High School Science Bowl Team B

2018 **Chesapeake Bay Bowl Regional Ocean Science Bowl Competition**

Montgomery Blair High School Team A