Laura Cui

Montgomery Blair High School
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Education

Montgomery Blair High School, Silver Spring, MD
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

Extracurriculars: Astronomy Club (President), Physics Team (Co-captain), CubeSat, Science Bowl, National Art Honor Society

Research Experience

SEPTEMBER 2017 - PRESENT
CubeSat, Montgomery Blair High School - *Co-founder, Scientific Initiatives*

- Develop scientific initiatives 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

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

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

2017 **Maryland Envirothon 3rd Place Team** - *Montgomery County Team*