
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, Multivariable Calculus and Differential Equations, Quantum Mechanics, Analysis of Algorithms

Leadership: Physics Team, Science Bowl, CubeSat, Astronomy Club

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
 - Strong computer programming skills including Python, Java, and MATLAB
 - Experience as teaching assistant at the Gaithersburg Art of Problem Solving Academy
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Awards and Honors

2017 Science and Engineering Apprenticeship Program 2nd Place Award

For excellent presentation of apprenticeship project

2018 National Ocean Sciences Bowl Excellence in Written Testimony

Individual excellence in written testimony in the NOSB Science Expert Briefing

2016-2018 American Mathematics Competition Certificate of Distinction

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

2018 National Ocean Sciences Bowl Competition First Place

Montgomery Blair High School, Chesapeake Bay Bowl Regional Champions Team