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: Multivariable Calculus and Differential Equations, Quantum Mechanics, Analysis of Algorithms, Mathematical Physics

Leadership: Physics Team, Science Bowl, CubeSat, Astronomy Club, National Art Honor Society

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

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

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- **American Mathematics Competition Certificate of Distinction**
2018 *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