Laura Cui

Montgomery Blair High School
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Education

Montgomery Blair High School, Silver Spring, MD
Senior, 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, Complex Analysis

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

Research Experience

JUNE 2018 - AUGUST 2018
Maryland Center for Fundamental Physics - *Research Internship*

- Investigate the existence and properties of tetraquark states

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

- Design photometer instrument 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

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

2019 **Regeneron Science Talent Search Scholar**
For work with near-threshold doubly heavy tetraquark states

2018 **National Ocean Sciences Bowl Excellence in Written Testimony**
Individual excellence in written testimony in the NOSB Science Expert Briefing

2018 **National Ocean Sciences Bowl Competition First Place**
Montgomery Blair High School, Chesapeake Bay Bowl Regional Champions Team

2017 **Science and Engineering Apprenticeship Program 2nd Place Award**
For excellent presentation of apprenticeship project