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## 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

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

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### Research Experience

JUNE 2018 - AUGUST 2018

#### Fundamental Physics, University of Maryland College Park - Research Internship

- Investigate the existence and properties of tetraquark states

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
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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 2<sup>nd</sup> 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*