

---

## Laura Cui

Montgomery Blair High School  
laura.l.cui@gmail.com  
(240) 381-6689

---

### Education

#### **Montgomery Blair High School, Silver Spring, MD**

*Junior, 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

Activities: Astronomy Club (President), Physics Team (Co-captain), CubeSat, Science Bowl

---

### 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
  - 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 2<sup>nd</sup> 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 3<sup>rd</sup> Place Team**