

**Henry Zhang**  
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## **RESUME PROFILE**

A hard-working student who is driven and can meet expectations. Has a background in physics and seeks professional experience while working in a professional physics department through a summer internship.

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## **EDUCATION:**

*Montgomery High School* in Skillman, NJ (September 2017 to June 2018)

*St. Paul's School* in Concord, NH<sup>1</sup> (September 2018 to February 2020)

*Montgomery High School* in Skillman, NJ (February 2020 to June 2021)  
Graduation date: June 2021

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## **EXPERIENCE:**

**Math/Science Corner** Summer '18

- Worked around six hours a week to teach children basic middle school science/math

**TEAMS (Captain)** Summer '18

- Tests of Engineering Aptitude, Mathematics, and Science (TEAMS) is an engineering competition that incorporates building, testing, and essay components
- Qualified for 2018 international competition
- Topics: 2018 Engineering a Greener World

**Yale Young Global Scholars (Biological and Biomedical Science)** Summer '19

- Highly selective international summer program for high school students
- Attended lectures and seminars about vaccines, microbiology, and biological medicine led by Yale faculty and students
- Biomedical Capstone Project on a reengineered TDaP vaccine

**Research with Dr. Athanasios Bourtsalas at Columbia University** Summer '19 - Present

- Experience researching and performing a Life Cycle Analysis (LCA) on waste in the United States
  - In the process of writing a paper on an LCA of non-recyclable plastic to energy processes in the United States
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## **RELEVANT HIGH SCHOOL STUDIES:**

- **Advanced Physics (AP Physics C)**, Received High Honors
  - **Calculus 1-2 Honors (AP Calculus BC)**, Received High Honors
  - **Multivariable Calculus**, Currently enrolled
  - **AP Biology**, Currently enrolled
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## **HONORS, AWARDS, AND MEMBERSHIPS:**

- **Qualified for the United States Physics Olympiad (USAPhO)** March 2018  
Extremely selective competition of the 300 ~ 400 best high school physics students through an entrance exam
- **1st for High School Physics 1 in the New Jersey Science League** June 2018  
Competition for physics students studying at the honors level in high school
- **3rd at the International Tests of Engineering Aptitude, Mathematics, and Science Competition** June 2018  
Competition at the national level in environmental science, physics, and engineering
- **Physics Club Member/Future Head** 2019 - Present  
Current junior head of the Physics Club that meets to discuss recent news in physics and watches lectures
- **Math Team Junior Head** 2019 - Present  
Junior head for the St. Paul's School Math Team that participates in the Harvard and MIT Mathematics Tournament
- **Relevant Skills:** Research experience with a real lab, knowledge of theoretical physics lectures/biological science lectures, experience with Excel, MATLAB, LaTeX, Mathematica, and microbiological equipment/work

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<sup>1</sup> St. Paul's does not rank students or calculate GPAs. The grade range is Unsatisfactory, Pass, High Pass, High Pass with commendation, Honors, Honors with commendation, High Honors, and High Honors with commendation