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## Education

### Massachusetts Institute of Technology (MIT)

2011-2015 (expected)

Candidate for Bachelor of Science in Electrical Engineering/Computer Science and Biological Engineering.

### Edgemont High School

2007-2011

GPA: 5.83/5.00 Class rank: 1/144

## Experience

### Medical/Applied Math Research

2008-2011

Formulated an evolutionary game theory mathematical model to test the hypothesis of cooperation among cancerous cells. Programmed in MATLAB to simulate the model. Paper to be published in the annual high school science journal,  $E=mc^2$ .

### Personal Tutor in Math and Science

2010-2011

Taught various math/science concepts to high school students. Subjects included trigonometry, precalculus, algebra, and biology.

### Captain of Mathletes Team

2010-2011

Managed team members on the team, coordinated fundraisers to cover expenses for travels to competitions, and allocated funds for different activities.

### Columbia Science Honors Program participant

2010-2011

Attended college lectures taught by Columbia University (NY) instructors. Courses taken include neurobiology and disease, quantum mechanics, and string theory.

### Programmed an User-Interactive Game

2010-2011

Designed six classes and utilized the MouseListener interface to provide the player an interactive experience.

### Volunteer Library Clerk

2010-2011

Organized books on the shelf and in the library catalogue, entered new books and reorganized current books in the catalogue.

## Honors/Awards

### National Merit Scholar (2011)

National AP Scholar (2011): Taken a total of 13 AP courses.

Cum Laude Society (2011): Includes top 10% of graduating class.

Intel Science Talent Search Semifinalist (2011): Awarded to top high school researchers in the nation.

Honor Awards in AP Biology, AP Physics, AP Computer Science, and AP Chemistry (2007-2011): Awarded to the top student in each class.

## Memberships/Activities

Society of Women Engineers (SWE), MIT chapter member

2011-Present

Society of Women in Math (SWIM), Member

2011-Present

Harvard-MIT Math Tournament (HMMT), Member

2011-Present

Biological Engineering Society, Member

2011-Present

## Skills

- Research experience in modeling and running simulations.
- Proficient in Java, HTML, LaTeX, and MATLAB.
- Multilingual: Fluent in English, Spanish, and Chinese (Mandarin)