

# Jason Eveleth

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12208

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<http://jasoneveleth.com>

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## EDUCATION

### Brown University

Providence, RI — Anticipated Graduation 2023

Bachelor of Science candidate in Math-CS, GPA 3.8

**Coursework** — Introduction to Higher Mathematics I and II, Statistical Inference I, Applied Ordinary Differential Equations, Applied Partial Differential Equations I, Introduction to Algorithms and Data Structures, and Introduction to Computer Systems.

**Extracurricular** — Brown Running Club, attended practices and meets.

### Albany High School

Albany, NY — Graduated 2019

Valedictorian Advanced Regents Diploma with Honors awarded with Mastery in both Math & Science, and Mathematics, unweighted GPA 99.2

**Awards** — The Joseph Lewi Math Award, RPI Medal, Suburban Council Excellence in Leadership Award, National Honors Society, AP Scholar with Distinction, and National AP Scholar.

**SUNY University at Albany coursework** — Honors Linear Algebra, Independent Study in Math, and Calculus of Several Variables. GPA 4.0.

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## MATH RESEARCH EXPERIENCE

### Voronoi Tessellations Research, *Research Assistant*

May 2020 to Present

- Performing research project remotely with Dr. Tony Kearsley and Dr. Joe Klobusicky in the NIST Mathematical and Computational Science Division.
- Developing 1000+ lines of code to generate Voronoi diagrams, calculated gradient descent to optimize perimeter, and currently investigate its effects and adding new features. Code on my github at [github.com/jasoneveleth/voronoi](https://github.com/jasoneveleth/voronoi).

### Brown Undergraduate Mathematics Projects (BUMP) Program, *Researcher*

Jul 2020 to Sep 2020

- Researched repeating decimals and their periods as part of a 3 person team.
- Coded experiments to test our conjectures in Jupyter notebooks.
- Determined the length of the repeating decimal based on the prime factorization of the denominator.

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## PROGRAMMING EXPERIENCE

### Touchtype, *Programmer*

Aug 2020

- Built an educational website as part of a two person team, designed to help people learn touch typing, and muscle memory. Available on [github](https://github.com).

### Minecraft Lighting, *Programmer*

Jan 2020

- Built a Java GUI which allows the user to chose which blocks have a light source and calculates how lighting plays out from the light in Minecraft.

### Personal Website, *Programmer*

Nov 2019 to Present

- Built a personal website at [jasoneveleth.com](http://jasoneveleth.com) using html and CSS with one or two JavaScript even-handlers.

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## LEADERSHIP EXPERIENCE

### Community Corps - Swearer Tutoring Enrichment in Math and Science, *Tutor*

Jan 2020 to May 2020

- Tutored at local Hope High School 2 hours a week. Taught 9th graders Algebra I, and how to use TI-84 graphing calculators.

### Competitive Running, *Captain*

Nov 2017 to May 2019

- Captain for cross country, indoor track, and outdoor track, oversaw much of practice by organizing warmups, building morale, timing meets, and leading over 30 runners each season.

### Trivia, *Captain*

Sep 2018 to April 2019

- Captain for Masterminds, organized events and transportation to this monthly, interscholastic, and academic-trivia quiz bowl competition.

### Key Club, *Vice President*

Sep 2018 to May 2019

- Vice President for Key Club, organized biweekly meetings for 20 people, advertised for the club and service events, participated in community service, and attended regional meetings.

### National Honors Society, *Vice President*

Sep 2018 to May 2019

- Vice President for National Honors Society, organized meetings.

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## SKILLS AND INTERESTS

- Proficient in Python, L<sup>A</sup>T<sub>E</sub>X markup, C99, Java, POSIX compliant shell, x86\_64 assembly, zsh, bash, Microsoft Office, GIMP, iMovie, HTML, CSS, JavaScript, Markdown, and Jupyter notebooks.
- Basic understanding of NumPy, SciPy, AppleScript.
- Interests: running, ultimate frisbee, hiking, minecraft, and vim.