

## Education

**Colorado School of Mines**, Golden, CO

BS in *Computational and Applied Mathematics*, August 2017 - May 2020

On-Major GPA: **3.97**

MS in *Computational and Applied Mathematics*, January 2019 - May 2020

On-Major GPA: **3.87**

## Skills

- **Programming Languages:** R, Kotlin, Fortran, C++, Java, MATLAB, Python
- **IDEs:** IntelliJ, Netbeans, Android Studio
- **Mathematics:** Linear Algebra, Computational Methods, Neural Networks, Graph Theory, Partial Differential Equations, Probability, Statistics

## Relevant Experience

### Colorado School of Mines

*Research Assistant*, June 2019 - August 2020

I learned the content of a research paper and made substantial contributions to an open-source R package. I wrote code in both R and Fortran to provide both an easy-to-use interface and the high performance needed for large-scale scientific computing.

### LGS Innovations

*Research & Development Intern*, June 2018 - August 2018

I applied mathematical modeling and statistical techniques to develop a system that estimates the location of a moving signal source from a set of noisy measurements and provides a confidence interval. I incorporated both MATLAB and C++ to make the algorithm fast and easy to understand.

### Virginia Tech Transportation Institute

*Research & Development Temporary Hire*, June 2017 - August 2017

I worked in a team of three to develop an Android application for connected and autonomous vehicle research that receives and stores data about the physical location and current signal display and timing of street intersection traffic lights, as well as construction zones and other significant road events, and displays that data when the phone approaches them.

## Awards and Honors

- Scored in the top 7% of competitors on the 2017 Putnam Exam.
- Member of the highest scoring team in Colorado School of Mines history on the 2018 Putnam Exam.
- Received the Colorado School of Mines President's Scholarship.
- Won the small-school division of the CSU Math Day team competition in 2011, 2012, 2015, 2016; captain of the team in 2015 and 2016.
- Qualified for the Colorado ARML team, 2013-2017.
- Set the world record for speedrunning the puzzle game Keep Talking and Nobody Explodes.