

# SUJAI HIEMATH

SujaiHiemath.github.io ◇ shiremat@caltech.edu

## EDUCATION

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### California Institute of Technology

*September 2019 - June 2023*

Bachelor's Degree, Major in Applied and Computational Mathematics

GPA: 4.1/4.3

**Relevant Coursework:** Causal Inference, Statistics, Probability, Real Analysis, Machine Learning, Data Structures & Algorithms, Multi-Variable Calculus, Differential Equations, Linear Algebra.

## TECHNICAL SKILLS

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Python, R, MATLAB, Java, Mathematica, LaTeX, PPT/Word.

## WORK EXPERIENCE

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### Wierman Group, Caltech

*October 2022 - Current*

*Research Intern*

- I am performing data analysis on the 2022 Pasadena Unified School District school choice lottery; I aim to recommend changes to the current PUSD lottery process that help promote equity and boost public school enrollment rates.

### Edge Technology Research, IpLearn

*June 2021 - Nov 2021, June 2022 - Current*

*Research Intern*

- I am reviewing technical documents and preparing weekly reports on Multi-Edge-Access, 5G and various other data transmission technologies.

### ML Classification Research, Shum Lab Group

*Sept 2021 - Nov 2021*

*Research Assistant*

- I used R to build a ML tool for classification of website URLs into the industry of the corresponding company who owns the URL.

### Data Science Research, Yahoo! and Caltech

*May 2021 - Dec 2021*

*Research Intern*

- I used R to visualize and process Yahoo! ad auction data to investigate the role of rebroadcasters in their online advertising markets.

### Applied Math Classes, Caltech

*November 2021 - June 2022*

*Teaching Assistant*

- I graded homework for applied linear algebra (ACM 104) and general mathematical methods (ACM 95ab). I also held weekly office hours, answering questions about the class material and homework.

### Joint Research Group, Caltech and UCLA

*June 2020 - October 2020*

*Research Intern*

- I extended and tested a variation on bounded confidence models for opinion dynamics on social media networks, that included heterogeneous media influence, in MATLAB.