

# Siddharth Limaye

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## Education & Awards

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UC San Diego, Class of 2020 - Bachelor's Degree: Biology Major w/ Specialization in Bioinformatics, and Math -- Computer Science Major; 3.82 GPA

10 time Provost Honors Recipient & National Merit Scholar (NMSQT)

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## Work Experience, Projects, Courses, & Extracurriculars

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### Projects / September 2020 - Present

- **js-utils:** [JS Library](#) for some default data structures like graphs, stacks, and queues, and more functional Iterables
- **Math-JS:** [JS Library](#) that brings some abstract algebra functions, number theory, and probability to the browser (WIP)

### Courses & Further Education / September 2020 - Present

- **Complexity Theory:** Completed courses through [Complexity Explorer](#): Renormalization, Information Theory, Maximum Entropy Methods, Fractals and Scaling, Dynamical Systems and Chaos
- **Neural Networks & Deep Learning:** Worked through [textbook](#)

### Research / February 2018 to September 2020

- Research Assistant at Zhang Integrative Genomics Lab
- Worked on melanoma, mouse brain, and lung development using **Next-Gen Sequencing, Single-cell metagenomic data**
- Developed data analysis pipeline for cross-species comparison
- Worked with **PCA, UMAP, t-SNE, Topic Analysis** applied to cells
- Presented poster; **5th author on paper under review at Cell**

### Teaching Assistant / Jan 2020 - Apr 2020, Mar 2018 - Jun 2018

- Human Physiology and Genetics classes of 30 students each
- Ambassador between students and professor, and advocate for student wellbeing during uncertainty involving initial months of COVID19

### Triton Prosthetics Member / January 2018 to June 2020

- Fit 9 year old recipient with 3d printed prosthetic arm
- Developed myoelectric module for better prosthesis control
- Started website redesign for better outreach to people in need

### International Health Clinic Volunteer / May 2019 to March 2020

- Volunteered at "HHAB" Tijuana Health Clinic ~120 hrs
- Shadowed pediatrician and med students, took patient vitals, and translated at pharmacy

### CPR Instructor & Board Member / June 2018 to March 2020

- Taught and certified CPR to 300+ students
- Organized 3 fundraisers and a health conference committee