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# Bailey Wickham

Cal Poly, San Luis Obispo, CA

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## EDUCATION

### Cal Poly, San Luis Obispo CA - *Sophomore*

SEPTEMBER 2018 - JUNE 2022 (hopefully) - 3.4 GPA

- **BS** in Computer Science and Mathematics (Pure focus)
- **Minoring** in Chinese

## EXPERIENCE

### Frost Undergraduate Research, Cal Poly - *Researcher*

Summer 2020

- Participated in undergraduate research in Pure Mathematics under Dr. Eric Brussel
- Classified conjugacy classes of **H** using a Category Theoretic approach, classified related affine varieties, commutative subalgebras and embeddings of **R**.
- Paper will be published Fall, 2020

### PolySat CubeSat Lab, Cal Poly CA - *Mission Lead, Software Engineer*

SEPTEMBER 2018 - PRESENT, Full Time Summer 2019

- Managed Exocube II mission, led a team of ~20 to design, build, and deliver a satellite. Worked with NASA Goddard, TriSept to organize mission and launch
- Flight Software, Kernel/Embedded (C) programming, buildroot, serial protocol, python services
- Managed AWS infrastructure and ansible scripts, extended failure analysis, hardware and software debugging, Procedure creation

### Cascade Custom Software, Portland OR - *Software Engineering Intern*

SUMMER 2017, 2018

- Developed full stack application for third party
- Merged and moved data warehouse (SQL prod server)
- Used Typescript, Angular, Vue.js, SQL Server to develop in-house data analysis website

### Melloh - *Founder*

DECEMBER 2016 - SPRING 2019

- Started business to create and host websites for individual businesses. Worked with clients to keep sites up to date and create unique content
- Used Python, Django, Apache/Nginx, PHP/Wordpress, MySQL, Linux

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## Additional Experience

- Worked with Masters student under Dr. Theresa Migler to characterize power networks from a graph theoretic approach. Studied graph networks and built a framework for ingesting data.
- Many Personal projects on [github](#), including a docker clone (namespaces, cgroups, overlays), a git clone written in golang, python metaclasses, a markov chain based fuzzer
- Graduate Field Theory (MATH 560), Graduate Algebra (MATH 561, planned fall 2020)