

# Catherine Weiss

5353 Wilshire Blvd Unit M203 • Los Angeles, CA 90036 • catherineweiss95@gmail.com • (615) 420-0092  
<https://catweiss.com>

## EDUCATION

### Loyola Marymount University

*Bachelor of Science, Applied Mathematics*

*Minor, Computer Science*

**GPA 3.7**

**Los Angeles, CA**

May 2017

## PROFESSIONAL EXPERIENCE

### Huron Consulting Group

*Senior Technical Consultant*

*Technical Consultant*

**Portland, OR/ Remote**

June 2020 – Present

September 2018 – June 2020

- Communicate with clients from medical schools and top tier institutions to develop research compliance software tailored to their needs
- Assist in project planning for multi-million dollar SaaS software projects in the form of technical requirements, estimates, and project timelines
- Develop compliance software using javascript and SQL for IRB, IACUC, Grants & Agreements, and Animal Operations solutions
- Mentor new hires, including teaching basics of object oriented programming, and explain research infrastructure and software
- Lead projects as senior technical lead, helping one client launch 2 months ahead of schedule and save over \$100K of resources
- Revitalize internal technical processes, creating an API to integrate Huron's solutions with DocuSign
- Serve on the integration expert group to help other projects tackle integration problems
- Conduct database conversions from external Grants database to Huron SaaS solution SQL databases and help streamline the process for future client conversions
- Lead Huron's annual professional clothing drive for people experiencing housing instability

### New Avenues for Youth

*Jesuit Volunteer; Education Specialist and Day Services Advocate*

**Portland, OR**

August 2017 – September 2018

- Build curriculum and tutor GED students experiencing homelessness in mathematics, science, language arts, and social studies

## SKILLS

**Programming:** Java, Python, html, CSS, JavaScript, Matlab, Mathematica, LaTeX, SQL

**Relevant Coursework:** Data Structures, Algorithms, Complex Analysis, Real Analysis, Theory of Computation

## RESEARCH

**Thesis:** *The Diffie-Hellman Key Exchange for Elliptic Curves*

May 2017

- Implemented the Diffie-Hellman Key Exchange on the group structure of elliptic curves, advised by Dr. Khadjavi

**Summer Undergraduate Research Program, LMU**

May 2016 – August 2016

- Researched early mathematics education using data analysis, used STATA to implement algorithms comparing students

**Research Experience for Undergraduates (REU), CSUSB**

June 2015 – August 2015

- Mapped hyperbolic knots to  $PSL_2(\mathbb{Z})$
- Presented findings in research paper and presentation at CSUSB
- Funded by the National Science Foundation to work with Dr. Trapp

## ACADEMIC AWARDS AND PROGRAMS

Honors College, LMU

Mathematics Grant, \$8,000

Dean's List

Service Learning Leadership Award, 2017

Sophomore Mathematics Scholarship, \$15,000

Academic Achievement Award, \$8,000

Semester Abroad, Cardiff University