

Catherine Weiss

551 N Lombard Street • Portland, OR 97217 • catherineweiss95@gmail.com • (615) 420-0092

EDUCATION

Loyola Marymount University <i>Bachelor of Science, Applied Mathematics</i> <i>Minor, Computer Science</i> GPA 3.7	Los Angeles, CA May 2017
---	------------------------------------

ACADEMIC AWARDS AND PROGRAMS

Honors College, LMU	Sophomore Mathematics Scholarship, \$15,000
Mathematics Grant, \$8,000	Academic Achievement Award, \$8,000
Dean's List	Semester Abroad, Cardiff University
Service Learning Leadership Award, 2017	

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: <i>The Diffie-Hellman Key Exchange for Elliptic Curves</i>	May 2017
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Researched early mathematics education using data analysis, used STATA to implement algorithms comparing students	
Research Experience for Undergraduates (REU), CSUSB	June 2015 – August 2015
<ul style="list-style-type: none">Mapped hyperbolic knots to $PSL_2(\mathbb{Z})$Presented findings in research paper and presentation at CSUSBFunded by the National Science Foundation to work with Dr. Trapp	

PROFESSIONAL EXPERIENCE

New Avenues for Youth	Portland, OR
<i>Jesuit Volunteer; Education Specialist and Day Services Advocate</i>	August 2017 – August 2018
<ul style="list-style-type: none">Develop relationships and serve homeless youth (18-24 years old)Build curriculum and tutor GED students in mathematics, science, language arts, and social studiesLive in an intentional community centered around four values of simple living, community, social and ecological justice, and spirituality	
Grade Potential	Los Angeles, CA
<i>Mathematics and Computer Science Tutor</i>	May 2017 – August 2017
Mathnasium	Los Angeles, CA
<i>Tutor</i>	May 2016 – August 2016
LMU Mathematics Department	Los Angeles, CA
<i>Teaching Assistant</i>	January 2015 – May 2015
<ul style="list-style-type: none">Facilitated labs for “Mathematics of the Modern World” classes and taught Data Analysis on Excel.	
Lion's Den Cafe	Los Angeles, CA
<i>Manager</i>	May 2016 – May 2017
<i>Supervisor</i>	May 2014 – May 2016
<i>Barista</i>	August 2014 – May 2017
<ul style="list-style-type: none">Supervise staff of 50 people via creating work schedule, acting as liaison between student workers and LMU staffManage café operations, including counting cash drawers and ensuring accuracy of money count, doing deposit drops, responding to unexpected difficulties	