

Olivia Weng

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Education

University of California, San Diego

PhD (*In progress*), Computer Science and Engineering

Advisor: Ryan Kastner

2020 - 2026 (expected)

The University of Chicago

BS, Computer Science *spec.* Computer Systems

2016 - 2020

Research Experience

University of California, San Diego

Research Assistant

Advisor: Ryan Kastner

October 2020 - Present

The University of Chicago

Research Assistant

Advisor: Andrew A. Chien

April 2019 - Jan 2020

The University of Chicago

Research Assistant

Advisor: Yanjing Li

March 2018 - Jan 2020

Employment

The University of Chicago

Computer Lab Tutor

Jan 2017 - Jun 2020

Braintree

Software Engineer Intern

Jun 2019 - Aug 2019

The University of Chicago

Research Assistant

Advisor: Yanjing Li

Jun 2018 - Sep 2018

Gridless Power Corporation

Software Intern

Jun 2017 - Aug 2017

Publications

- Design Space Exploration for Machine Learning Architectures** ReCoDe 2021
Michael Barrow, Olivia Weng, Ryan Kastner
In *Workshop on Reimagining Codesign*
hosted by US DOE, Office of Advanced Scientific Computing Research.
Virtual, March 2021.
- Hardware-efficient Residual Networks for FPGAs** SLOHA 2021
Olivia Weng, Alireza Khodamoradi, and Ryan Kastner.
In *Workshop on System-level Design Methods for Deep Learning on Heterogeneous Architectures (SLOHA)*
at *Conference on Design, Automation and Test in Europe (DATE)*.
Grenoble, France, February 2021.

3. **Evaluating Achievable Latency and Cost: SSD Latency Predictors** AccML 2020
 Olivia Weng and Andrew A. Chien.
 In *Workshop on Accelerated Machine Learning (AccML)*
 at *High Performance Embedded Architectures and Compilers (HiPEAC)*.
 Bologna, Italy, January 2020.

Presentations

- Hardware-efficient Residual Networks for FPGAs** February 5, 2021
 SLOHA 2021, Virtual
- Evaluating Achievable Latency and Cost: SSD Latency Predictors** January 20, 2020
 AccML 2020, Bologna, Italy

Awards

- Jacobs School of Engineering Fellowship** 2020 - 2022
 University of California, San Diego
- Kunzel Powell Fellowship** 2020 - 2021
 University of California, San Diego
- Dean's Fund for Undergraduate Research** 2020
 The University of Chicago
- Dean's List** 2017, 2018, 2019
 The University of Chicago
- Grace Hopper Conference Scholarship** 2018
 The University of Chicago

Teaching

- CMSC 15400: Introduction to Computer Systems – *Grader* Spring 2020
- CMSC 15200: Introduction to Computer Science II – *Grader* Summer 2018, Winter 2019
- CMSC 22200: Computer Architecture – *Grader* Spring 2018
- CMSC 16100: Honors Introduction to Computer Science I – *Grader* Autumn 2017

Service

- UCSD CSE DEI Book Club**, Organizer + Member Oct 2020 - Present
 · Select books and lead discussion on pressing and timely diversity issues, focusing especially on the U.S.
 · Books read: *The Color of Law*, *Minor Feelings*, *How to be an Anti-Racist*, *Whistleblower: My Unlikely Journey to Silicon Valley* and *Speaking Out Against Injustice*
- MyCSPHD.org**, Content Creator + Panelist Dec 2020 - Present
 · Created an informational video on the CS Ph.D. experience based on an interview with a Ph.D. student at the University of Washington, currently available on the My CS Ph.D Youtube channel
 · Participated in two My CS Ph.D. information session panels, answering questions about why pursue a Ph.D in CS and what Ph.D student life is like
- Jacobs Undergraduate Mentoring Program**, Mentor Oct 2020 - Jun 2021
 · Mentored three undergraduate students, fostering connections between software engineers in industry and maintaining morale amidst a global pandemic
- UCSD GradWIC Graduate School Application Workshop**, Volunteer Oct 2020 - Mar 2021

- Reviewed and gave feedback on several undergraduate students' graduate school application materials over multiple workshop sessions

ACM-W@UChicago Mentorship Program, Undergraduate Mentor May 2018 - Jun 2020

- Guided Neha through how to start research and secure a research advisor, pointing her to various professors in the department with whom she could potentially work—she worked with Professor Shan Lu
- Supported and checked in with Melanie as she went through the internship recruiting process and the CS major at UChicago, reviewing her resume and helping her select classes

CS Student Activities Council, Student Representative Sep 2017 - Jun 2020

- Secured funding to support four computer science student organizations on campus to host events that foster collaboration and grow the undergraduate tech community at UChicago

Asynchronous Anonymous, Director Jan 2017 - Jun 2020

- Coordinated weekly tech talks given by a diverse set of undergraduates, elevating minority speakers, to build an inclusive tech community at UChicago, engaging students with new technologies

Society of Women Engineers' Girls' Day in STEM, Volunteer May 2019

- Created a workshop that taught basic cryptography topics, in which 50 middle and high school girls participated
- Facilitated a discussion on diversity and what it means to be a woman in STEM among a group of 7 local Chicago middle school girls

compileHer Tech Capstone 2019, Volunteer Apr 2019

- Led a group of 12 local Chicago middle school girls through interactive workshops that introduced select computer science topics, guiding them through completing each activity

ACM-W@UChicago, Board Member Jan 2017 - Jun 2018

- Organized study breaks and student panels in committee of five women computer science majors weekly to bring women and minority computer science community together and discuss diversity issues in the tech industry

Extra-curricular Activities

University Theater, Actor Jan 2020 - Jun 2020

University Double Woodwind Quintet, French horn player Apr 2018 - Jun 2018

University Symphony Orchestra, French horn player Oct 2017 - Jun 2018

University Chamber Orchestra, French horn player Oct 2016 - Jun 2017

Taiwanese-American Student Association Oct 2016 - Jun 2020

Events chair, Family head, Advisory board