Olivia Weng

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Education

University of California, San Diego	
PHD *(In progress)*, Computer Science and Engineering	2020 - 2026 (expected)
Advisor: Ryan Kastner	
The University of Chicago	
BS, Computer Science *spec.* Computer Systems	2016 - 2020

Research Experience

University of California, San Diego	October 2020 - Present
Research Assistant	
Advisor: Ryan Kastner	
The University of Chicago	April 2019 - Jan 2020
Research Assistant	
Advisor: Andrew A. Chien	
The University of Chicago	March 2018 - Jan 2020
Research Assistant	
Advisor: Yanjing Li	

Employment

The University of Chicago	Jan 2017 - Jun 2020
Computer Lab Tutor	
Braintree	Jun 2019 - Aug 2019
Software Engineer Intern	
The University of Chicago	Jun 2018 - Sep 2018
Research Assistant	
Advisor: Yanjing Li	
Gridless Power Corporation	Jun 2017 - Aug 2017
Software Intern	

Publications

1. **A Tunable Dual-Edged Time-to-Digital Converter**   FCCM 2021
   Colin Drewes, Steven Harris, Winnie Wang, Richard Appen, Olivia Weng, Ryan Kastner, William Hunter, Christopher McCarty, Dustin Richmond
   In *IEEE 29th Annual International Symposium on Field-Programmable Custom Computing Machines (FCCM)*
   Virtual, May 2021

2. **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.

3. **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.

4. **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
SLOHA 2021, Virtual February 5, 2021

Evaluating Achievable Latency and Cost: SSD Latency Predictors
AccML 2020, Bologna, Italy January 20, 2020

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