

# Olivia Weng

*email:* oweng@ucsd.edu

*phone:* (609) 751 1533

*web:* <http://oliviaweng.com>

## Education

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### 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

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### 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

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### 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

## Workshop Publications

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- 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.
- 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.

## Workshop Extended Abstracts

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1. **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.

## Presentations

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- 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

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- 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

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- 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

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- 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

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- 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