WEN-HORNG SHEU

Contact: (530) 979-6045 > wsheu@ucdavis.edu Personal Website: https://whsheu.github.io/

LinkedIn: https://www.linkedin.com/in/wen-horng-sheu-2350902b4/

EDUCATION

PhD in Computer Science at the University of California, Davis; GPA: 4.0/4.0

2023-Present

- · Anticipated graduation date: June 2028
- · Research area: Distributed Algorithms, Streaming Algorithms

Master of Computer Science at National Tsing Hua University; GPA: 3.9/4.0

2019-2021

· Specialized courses: Approximation Algorithms, Computational Geometry

Bachelor of Computer Science at National Tsing Hua University; GPA: 3.85/4.0

2015-2019

· Specialized courses: Advanced Data Structure, Randomized Algorithms, Parallel Algorithm Design

SELECTED PUBLICATIONS

Faster Semi-streaming Matchings via Alternating Trees

- · Presented a new streaming algorithm for the $(1 + \epsilon)$ -approximate maximum matching problem.
- · Learnt several techniques for designing algorithms using limited amount of memory.
- · This paper improves on a STOC 2022 result and was accepted to ICALP 2025.

Faster MPC Algorithms for Approximate Allocation and Matching in Uniformly Sparse Graphs

- · Developed a new distributed algorithm that has applications in online advertising and load balancing.
- · Learnt various approaches to designing algorithms for sparse graphs.
- · This paper improves on an ICML 2018 result and was accepted to SPAA 2025.

A Framework for Boosting Matching Approximation: Parallel, Distributed, and Dynamic

- · Proposed a framework for solving $(1 + \epsilon)$ -approximate maximum matching in distributed and fully dynamic settings.
- · The framework implies improvements on several prior results in FOCS 2024, SODA 2025, and ICALP 2025.

SELECTED HONORS

• Contributed Talk at Workshop on Local Algorithms, 2024

hosted by Simons Institute for the Theory of Computing, UC Berkeley

- · Presented our recent research, an improved streaming algorithm for (1+ ϵ)-approximate maximum matching.
- Gold Award in the 2019 ICPC Asia Pacific Taipei-Hsinchu Regional Contest
 - · Attended several programming contests, including ICPC, with other students in undergraduate years.
 - · Built strong abilities in teamwork and problem-solving.

Grandmaster on Codeforces

- · Ranked as a grandmaster, within top 1% globally on Codeforces.
- · Placed top 1% (out of 10,000+ contestants globally) in four programming contests on Codeforces.

SKILLS

Coding Languages C, C++, Python

Tools Git, LATEX, Microsoft Office

Languages English (fluent, TOEFL 105/120), Chinese (native)