WEN-HORNG SHEU

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Education

PhD in Computer Science at the University of California, Davis; GPA: 4.0/4.0 *2023-Present*
- Anticipated graduation date: June 2028 (06/28)
- 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 $(1+\epsilon)$-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**
  - Placed top 1% (out of 10,000+ contestants globally) in four online programming contests on Codeforces.
  - Ranked as a grandmaster, within top 1% globally on Codeforces (as of Feb 2021).

Skills

Coding Languages	C, C++, Python
Tools	Git, LaTeX, Microsoft Office
Languages	English (fluent, TOEFL 105/120), Chinese (native)