

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: 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 RESEARCH PROJECTS

Faster Semi-streaming Matchings via Alternating Trees

- Designed efficient streaming and distributed algorithms for the approximate maximum matching problem
- Results improve on a STOC 2022 paper and accepted to ICALP 2025
- Presented the result as a contributed talk at Workshop on Local Algorithms, 2024

Faster MPC Algorithms for Approximate Allocation in Uniformly Sparse Graphs

- Developed an efficient distributed algorithm with applications in online advertising
- Results improve on an ICML 2018 paper and accepted to SPAA 2025

Parameterized Complexity for Finding a Perfect Phylogeny from Mixed Tumor Samples

- Proposed an exact algorithm for a problem that has applications in cancer genomics
- Results improve on a TALG 2018 paper and accepted to SIAM Journal on Discrete Mathematics (SIDMA)

HONORS AND AWARDS

- **Contributed Talk** at *Workshop on Local Algorithms, 2024*
hosted by *Simons Institute for the Theory of Computing, UC Berkeley*
- **Gold Award** in the 2019 ICPC Asia Pacific Taipei-Hsinchu Regional Contest
- **Google Code Jam 2021 Round 3 Qualifier**
 - Placed 255-th in Round 3, within top 1% of all 37,000+ participants of the qualification rounds
- **Grandmaster** on *Codeforces*
 - Ranked as Grandmaster (rating 2551, top 1% globally) on the competitive programming platform Codeforces
 - Placed top 100 (top 1% globally) in four online programming contests on Codeforces
- **Meta Hacker Cup 2020 Round 2 Qualifier**
- **Second Place Award** in the *ACM TAU 2018 Contest on Path Reporting*

SKILLS

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| Coding Languages | C, C++, Python |
| Tools | Git, L ^A T _E X, Microsoft Office |
| Languages | English (fluent, TOEFL 105/120), Chinese (native) |