Tzu-Tao (Tommy), Chang

Madison, WI

Email | Personal Website | Google Scholar | LinkedIn

Education

University of Wisconsin-Madison **Aug 2022 – Present**

Ph.D. Student in Computer Sciences

- Research interest: Systems for Machine Learning, Cloud Computing
- Advisor: Prof. Shivaram Venkataraman
- GPA: 3.86/4.0

University of Wisconsin-Madison **Aug 2022 – Dec 2024**

M.S. in Computer Sciences

- GPA: 3.83/4.0

National Taiwan University **Sep 2016 – Jan 2022**

B.B.A. in Finance, Minor in Computer Science and Information Engineering

- Advisor: Prof. Chung-Wei Lin
- GPA: 4.14/4.30

Publications

"TeDiServe: High SLO Attainment Serving for Diffusion Language Models," Tzu-Tao Chang, Benjamin Yuanyang Hong, Kiet Pham, Shivaram Venkataraman, *ACM EuroSys 2027 (To appear)*

"LV-XAttn: Distributed Cross-Attention for Long Visual Inputs in Multimodal Large Language Models," Tzu-Tao Chang, Shivaram Venkataraman, *ICML 2025*

"Eva: Cost-Efficient Cloud-Based Cluster Scheduling," Tzu-Tao Chang, Shivaram Venkataraman, *ACM EuroSys 2025*

"System Verification and Runtime Monitoring with Multiple Weakly-Hard Constraints," Yi-Ting Hsieh, Tzu-Tao Chang, Chen-Jun Tsai, Shi-Lun Wu, Ching-Yuan Bai, Kai-Chieh Chang, Chung-Wei Lin, Eunsuk Kang, Chao Huang, and Qi Zhu, *ACM TCPS, 2023*

Industry Experience

Meta **Menlo Park, CA, USA**

Research Scientist Intern **Jun 2026 – Sep 2026**

- Performance modeling for ML operators with the AI & Systems Co-Design Team.

Google **Remote, USA**

Student Researcher **Feb 2026 – May 2026**

- Leverage network telemetry to diagnose bottlenecks and improve efficiency in large-scale ML training systems.

Amazon Web Services **East Palo Alto, CA, USA**

Software Developer Engineer Intern **Jun 2023 – Aug 2023**

- Designed and developed mechanisms to minimize storage skew in Amazon Redshift.

Synology **New Taipei City, Taiwan**

Software Engineer Intern **Nov 2021 – Apr 2022**

- Developed internal-use tools for the R&D team to facilitate software development and branch management.

Hewlett Packard Enterprise **Taipei, Taiwan**

System Integration Test Engineer Intern **Jul 2021 – Oct 2021**

- Developed an internal-use system to automate the categorization of software packages from external vendors.

iKala **Taipei, Taiwan**

Growth Hacker Intern **Jun 2019 – Feb 2021**

- Managed and optimized product websites and databases.

Academic Experience

University of Wisconsin-Madison **Madison, WI, USA**

Teaching Assistant, CS744 Big Data Systems **Jan 2024 – May 2024**

- Provided feedback on student projects and designed assignments and exams.

Teaching Assistant, CS577 Introduction to Algorithm **Aug 2022 – Dec 2023**

- Delivered weekly lectures, led weekly discussions, and designed exams.

National Taiwan University **Taipei, Taiwan**

Teaching Assistant, CSIE2344 Digital Systems and Design Laboratory **Mar 2021 – Jun 2021**

- Graded assignments and exams.

Teaching Assistant, CSIE3310 Operating Systems **Mar 2021 – Jun 2021**

- Graded assignments and exams.

Institute of Statistical Science, Academia Sinica **Taipei, Taiwan**

Research Assistant **Nov 2019 – Jul 2020**

- Constructed statistical models to detect mutation using clinical data under the guidance of Prof. Grace S. Shieh.

Skills

AI Proficiency

- Claude Code, Codex, Microsoft Copilot

Programming Languages and Frameworks

- Python, C++, C, JavaScript, PyTorch, Triton, vLLM, Apache Spark, Ray

English

- TOEFL: 115/120 (R: 30/30, L: 30/30, S: 30/30, W: 25/30)
- GRE: 329/340 (Q: 170/170, V: 159/170, AWA: 4.0/6.0)

Honors

NeurIPS 2026 Top Reviewer **Oct 2026**

- Recognized for outstanding contributions to the peer review process.

Lawrence H. Landweber NCR Graduate Fellowship in Distributed Systems **May 2026**

- Awarded for academic excellence and research contributions in distributed systems.

Presidential Award, National Taiwan University **January 2019**

- Awarded to students ranked in the top 5% of their department.

Leadership / Extracurricular

Organizer of MadSystems Seminar **Sep 2025 – Present**

- Holds weekly seminars for MadSystems, the computer systems research group at University of Wisconsin-Madison.

Co-founder of CFSD, an Animal Shelter Volunteer Group **May 2018 – Nov 2019**

- Held weekly events for people to volunteer at Zhonghe District Animal Shelter.

Head of the Teaching Group, NTU Pop Dance Club **Jul 2017 – Jun 2018**

- Provided training and choreography to student dancers.
- Held NTU Cup, the biggest choreography competition in Taiwan.