

Weijun Chen

Ph.D. Candidate

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About

Fourth-year Ph.D. candidate at the BASICS Lab, Shanghai Jiao Tong University, advised by Prof. Yuxi Fu.

Interests

Theoretical Computer Science: Semantics and verification, Concurrent systems, Complexity and computability, Formal languages and automata.

Education

Ph.D. Shanghai Jiao Tong University, Theoretical Computer Science Shanghai, China
 • BASICS Lab, advised by Prof. Yuxi Fu. Sept 2022 – present

B.Eng. Shanghai Jiao Tong University, Computer Science and Engineering Shanghai, China
 • Minor in Mathematics & Applied Mathematics Sept 2018 – June 2022

Experience

BASICS Lab, Shanghai Jiao Tong University, Ph.D. Candidate Shanghai, China
 Conducting research in theoretical computer science. May 2021 – present
5 years 1 month

Publications

Improving Reachability in Vector Addition Systems through Pumpability Apr 2026
 Weijun Chen, Yuxi Fu, Yangluo Zheng
[10.48550/arXiv.2604.24095](https://arxiv.org/abs/10.48550/arXiv.2604.24095) (Arxiv Preprint)

A unifying approach to probabilistic testing equivalences June 2026
 Weijun Chen, Yuxi Fu, Huan Long, Hao Wu
[10.1016/j.tcs.2026.115928](https://doi.org/10.1016/j.tcs.2026.115928) (Theoretical Computer Science)

Survey on Complexity Lower Bound Research for Reachability Problem in Vector Addition Systems Jan 2026
 Weijun Chen, Yuxi Fu, Huan Long
[10.13328/j.cnki.jos.007441](https://doi.org/10.13328/j.cnki.jos.007441) (Journal of Software (Ruan Jian Xue Bao) In Chinese)

A Programming Language for Feasible Solutions Oct 2025
 Weijun Chen, Yuxi Fu, Huan Long
[10.1007/978-3-032-07106-4_4](https://doi.org/10.1007/978-3-032-07106-4_4) (SAS 2025 (LNCS))

Teaching

Theory of Computation, Shanghai Jiao Tong University Teaching Assistant
 Lecturer: Dr. Huan Long 2022, 2023, Fall

Mathematical Foundation in Computer Science, Shanghai Jiao Tong University Teaching Assistant
 Lecturer: Dr. Huan Long 2023-2025, Spring

Computational Complexity, Shanghai Jiao Tong University Teaching Assistant
 Lecturer: Prof. Yuxi Fu 2024, 2025, Fall

Skills

Languages: Python, C++, Lean4