Hao Wang

📞 (+1)217-328-7682 | ✉ hwang628@berkeley.edu | ⌨ moogician | 🐦 Tony Wang

EDUCATION

UC Berkeley   Aug 2024 - Present
PhD Student in Computer Science   Berkeley, CA, US

Peking University   Sep 2020 - Jun 2024
Bachelor of Science in Computer Science (Turing Class)   Beijing, China

PUBLICATION

- SCGAgent: Recreating the Benefits of Reasoning Models for Secure Code Generation with Agentic Workflows   *Preprint*
  Rebecca Saul*, **Hao Wang***, Koushik Sen, David Wagner

- Climbing the Ladder of Reasoning: What LLMs Can-and Still Can't-Solve after SFT?   *Preprint*
  Yiyou Sun, Georgia Zhou, **Hao Wang**, Dacheng Li, Nouha Dziri, Dawn Song

- Type-Constrained Code Generation with Language Models   *PLDI 2025*
  Niels Mündler, Jingxuan He, **Hao Wang**, Koushik Sen, Dawn Song, Martin Vechev

- Quantum Langevin Dynamics for Optimization   *Communications in Mathematical Physics*
  Zherui Chen, Yuchen Lu, **Hao Wang**, Yizhou Liu, Tongyang Li

- Guardian: A Runtime Framework for LLM-based UI Exploration   *ISSTA 2024*
  Dezhi Ran, **Hao Wang**, Zihe Song, Mengzhou Wu, Yuan Cao, Ying Zhang, Wei Yang, and Tao Xie

- Hierarchy-Aware Regression Test Prioritization   *ISSRE 2024*
  Hao Wang, Yi Pu, Jeremias Parladorio, Wing Lam, Darko Marinov, and Tao Xie

- Near-Optimal Quantum Algorithm for Minimizing the Maximal Loss   *Poster at ICLR 2024*
  Hao Wang, Chenyi Zhang, Tongyang Li

- BADGE: Prioritizing UI Events with Hierarchical Multi-Armed Bandits for Automated UI Testing   *ICSE 2023*
  Dezhi Ran, **Hao Wang**, Wenyu Wang, Tao Xie

- A Theoretical Analysis of Random Regression Test Prioritization   *TACAS 2022*
  Pu Yi, **Hao Wang**, Tao Xie, Darko Marinov, Wing Lam

AWARDS

Shenzhen Stock Exchange Scholarship   Oct. 2023
                                                                                                  Peking University

Award for Excellent Research   Oct. 2023
                                                                                                  Peking University

Huatai Securities Scholarship   Oct. 2022
                                                                                                  Peking University

Merit Student   Oct. 2022
                                                                                                  Peking University

Turing Class John Hopcroft Scholarship   Oct. 2021
                                                                                                  Peking University

---

*Equal Contribution

Freshmen Scholarship
Third Prize

<div align="right">

Oct. 2020
Peking University

</div>

Chinese Physics Olympiad (Province)
First Prize

<div align="right">

Sep. 2019
Chinese Physics Society

</div>

National Olympiad of Informatics (Province)
First Prize

<div align="right">

Oct. 2018
China Computer Federation

</div>