Ron Yifeng Wang

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Education

The University of Texas at Austin Aug 2026 - Present

Ph.D. Student in Computer Science
Advisor: Prof. Aditya Akella

Stanford University Sep 2024 - Jun 2026

M.S. in Computer Science

University of California, Berkeley Aug 2020 - May 2024

B.A. in Computer Science, Data Science; B.A. in Economics

Research Experience

Multi-scale Architectures & Systems Team (MAST), Stanford University Jun 2025 - Jan 2026

Latency-Optimizing System for CUA Planning and Scheduling
Mentor: Caleb Winston; PI: Prof. Christos Kozyrakis

- Designed and implemented a latency-aware scheduler for computer-use agent (CUA) workloads that adaptively leverages parallelism and request hedging, as well as contributed to the planner component of the system.
- Maintained and extended the open-source project at stanford-mast/blast.

Sky Computing Lab, UC Berkeley Dec 2023 - Sep 2025

Efficient and Fault-Tolerant Heterogeneous Execution
Mentor: Dr. Frank Luan; PI: Prof. Stephanie Wang

- Designed and executed experiments to evaluate the proposed execution model against traditional batch and streaming systems, comparing scalability, resource elasticity, and fault tolerance; managed experiment infrastructure.
- Identified and resolved several system performance bottlenecks, including improving Ray Data image ingestion throughput by 22%, merged into ray-project/ray.

Stanford Artificial Intelligence Laboratory (SAIL), Stanford University Jan 2025 - Jun 2025

Containerized Benchmark Execution Infrastructure
Mentor: Andy K. Zhang; PI: Prof. Percy Liang

- Built infrastructure for containerized and scalable evaluation, including per-task Docker-in-Docker sandboxes and Nginx-based service orchestration; open-sourced at bountybench/bountybench.

Work Experience

Plaid Inc., New York, NY June 2025 - Sep 2025

Software Engineer Intern, Core Infrastructure (return offer extended) *Mentor: Niko Ramirez*

- Designed and implemented a Kubernetes CronJob that automatically detects and mitigates unreachable or failed CI/CD workers across hundreds of instances, cutting MTTR from several hours to under 10 minutes. Owned the spec, security review, implementation, rollout, and knowledge transfer.

Publications (*equal contribution)

Conference Proceedings

[1] **Ray Data: A Dynamic and Scalable System for Heterogeneous Data Processing.**
Frank Sifei Luan*, Ron Yifeng Wang*, Yile Gu, Ziming Mao, Charlotte Lin, Amog Kamsetty, Hao Chen, Cheng Su, Balaji Veeramani, Scott Lee, SangBin Cho, Clark Zinzow, Eric Liang, Ion Stoica, Stephanie Wang.
To appear in *USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, 2027 [Paper].

[2] **Agent JIT Compilation for Latency-Optimizing Computer-Use Agent Planning and Scheduling.**
Caleb Winston, Ron Yifeng Wang, Azalia Mirhoseini, Christos Kozyrakis.
International Conference on Machine Learning (ICML), 2026 [Paper].

[3] **BountyBench: Dollar Impact of AI Agent Attackers and Defenders on Real-World Cybersecurity Systems.**
Andy K Zhang, Joey Ji, Celeste Menders, Riya Dulepet, Thomas Qin, Ron Yifeng Wang, Junrong Wu, Kyleen Liao, Jiliang Li, Jinghan Hu, Sara Hong, ..., Dawn Song, Dan Boneh, Daniel E Ho, Percy Liang.
Conference on Neural Information Processing Systems (NeurIPS), Datasets & Benchmarks Track, 2025 [Paper].

Teaching

Stanford University

- TA of Intro to Big Data Systems. Supervisor: *Prof. Shiva Shivakumar* — Sep 2025 - Dec 2025

UC Berkeley

- TA of Data Engineering. Supervisor: *Prof. Lisa Yan* — Aug 2023 - Dec 2023
- TA, Tutor, Lab Assistant of Foundations of Data Science — Jun 2021 - Dec 2022

Professional Service

- Artifact Evaluation Committee: FAST 2025, MLSys 2026, SOSP 2026

Awards

Dean's Strategic Fellowship, UT Austin — 2026

EECS Honors, UC Berkeley — Jul 2023