Ron Yifeng Wang

Address: 353 Jane Stanford Way, Stanford, CA
Email: ronyw AT cs DOT stanford DOT edu
Personal Site: https://cs.stanford.edu/~ronyw

Education

Stanford University, Stanford, CA Sep 2024 - Jun 2026

M.S. in Computer Science
Coursework: (AI) Deep RL, Deep Learning for Vision, Graph Learning, Compound AI Systems, Self-Improving AI Agents, LLMs; (SYS) OS, Programming Languages, Parallel Computing, Computer Networking

University of California, Berkeley, Berkeley, CA Aug 2020 - May 2024

B.A. in Computer Science and Data Science, B.A. in Economics
Coursework: (AI) ML Theory, NLP, Optimization Models, Computational Photography; (SYS) Machine Structures, Database Systems, Computer Security, Software Engineering

Research Experience

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

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

- Designed, implemented, and evaluated a latency-aware scheduler for Computer-Use Agent (CUA) workloads that leverages parallelism and request hedging.
- Maintained and extended the OSS project with new features, bug fixes, and benchmarks. Open-sourced at Blast.

Sky Computing Lab, UC Berkeley Dec 2023 - Sep 2025

The Streaming Batch Model for Efficient and Fault-Tolerant Heterogeneous Execution
Mentor: Dr. Frank Luan; PI: Prof. Stephanie Wang

- Evaluated Ray Data's Streaming Batch Model against traditional batch/streaming systems and ML dataloaders, measuring scalability, resource elasticity, and fault tolerance. Open-sourced at Ray Data and Ray Data Eval.
- Identified and resolved system performance bottlenecks, improving Ray Data image ingestion throughput by 22%. Prototyped an autoscaler that dynamically adjusts executor count to maximize GPU utilization.
- Managed Terraform infrastructure for deploying Ray Data and benchmark baseline clusters at scale.

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

Containerized Evaluation Infrastructure for AI Benchmarks
Mentor: Andy K. Zhang; PI: Prof. Percy Liang

- Built core benchmarking infrastructure: a secure, isolated execution sandbox with Docker-in-Docker and Nginx-based service orchestration. Open-sourced at BountyBench.
- Authored 7 of 40 evaluation tasks; validated correctness and reproducibility of the automated grading harness across the full benchmark.

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 service to automatically detect and mitigate unreachable or failed CI/CD workers, reducing worker-level MTTR from several hours to under 10 minutes. Deployed as a Kubernetes CronJob monitoring hundreds of instances. Owned the spec, security review, implementation, rollout, and knowledge transfer.

Publications (*equal contribution)

Preprints

[1] **The Streaming Batch Model for Efficient and Fault-Tolerant Heterogeneous Execution.**
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.
Under review, 2025 [Paper].

Conference Proceedings

[1] **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

[2] **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

Awards

EECS Honors, UC Berkeley — Jul 2023