
Christian Yongwhan Lim

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RESEARCH AND ML SYSTEMS

Research engineer working across programming systems, networks, computer vision, and reliable AI. I combine careful instruments, honest baselines, exact computation, and explicit uncertainty.

CURRENT RESEARCH

Cascade centrality

With Josh Alman | 2026

- Submitted exact-hardness and approximation work to ITCS 2027.
- Developing structural and network-augmentation manuscripts supported by proof, explicit counterexamples, and exact rational computation.
- Separately labels established theorems, computational evidence, and open conjectures.

Accurate data race prediction in the Linux kernel

PACMPL / OOPSLA 2024

- Co-authored sparse-Fourier learning work for accurate data-race prediction in a production-scale systems setting.

RESEARCH EXPERIENCE

Google | Research Software Engineer and Tech Lead

2016-2022

- Applied AI research that shipped into products; infrastructure for large-scale ML research.

MIT Operations Research

PhD studies | advisor: Asuman Ozdaglar

- Research on network effects, cascades, and game theory in complex systems.

SELECTED PUBLICATIONS

Object Bank, IJCV 2014 | Semantic Visual Image Hierarchy, CVPR 2010 | Competitive Rumor Spread, SIGMETRICS PER 2017 | Data Race Prediction, OOPSLA 2024 | Competitive-learning papers, 2025-2026

EDUCATION

MIT - PhD studies, Operations Research (on leave); advisor: Asuman Ozdaglar

Stanford - MS Computer Science; BS Mathematics and Computer Science; advisors: Fei-Fei Li and Persi Diaconis

637+ citations | Full record: yongwhan.io/publications