

Christian Yongwhan Lim

AI/SYSTEMS LEADER & RESEARCH ENGINEER



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Executive Summary

AI/Systems leader with 15+ years of experience bridging high-performance infrastructure and frontier research. Proven track record at Google and as a startup Chief Architect/VP of Engineering in building agentic AI systems that automate complex operational and technical workflows. 639+ citations across machine learning, computer vision, and network science.

Professional Experience

Probook | The AI Operating System for Home Services

Chief Architect

2026–Present

Setting technical vision and engineering scalable architecture for the AI operating system powering home services, backed by Andreessen Horowitz and Sequoia. Designing agentic workflows spanning dispatch, intake, and customer communications that decompose complex operational processes into autonomous subtasks.

Arklex AI | Agent-First Organization

VP Engineering

2025

Directed full-stack development of an open-source “Agent-First Organization” framework (175K+ lines of Python, 169 core modules). Engineered task-graph engine, distributed runtime, observability stack, and CI/CD pipelines. Achieved 99.1% test coverage and reduced production defects by 40%.

Two Sigma Investments

Senior Quantitative Software Engineer

2022–2023

Implemented algorithmic trading improvements increasing execution performance by 15% and reducing portfolio risk by 20% across systematic trading strategies.

Google

Research Software Engineer & Tech Lead

2016–2022

Led applied AI research initiatives shipped to flagship Google products serving 1B+ users globally. Tech Lead for Google Kick Start, scaling the competition from a regional contest to 110K+ participants worldwide. Developed core infrastructure for large-scale ML research.

Strategic Leadership

ICPC Foundation, Director of Internships (2025–); Chair, CLI Symposium (2023–); Co-Chair, Curriculum Committee

2022–Present

Leading 18+ active interns with 93+ successful completions across transformative infrastructure projects (ICPC Archive, Mobile App, Online Training Platform). Chairing the ICPC Competitive Learning Institute (CLI) Symposium at the World Finals; co-chairing an open-source curriculum spanning 50+ algorithmic topics with 50K+ downloads.

Columbia University, Adjunct, Department of Computer Science

2022–Present

Teaching 9+ semesters of competitive programming courses reaching 500+ students. Mentored 100+ students individually with 50+ placements (95%+ placement rate) at Google, Microsoft, Amazon, Apple, Two Sigma, Citadel, Goldman Sachs, and other leading firms.

The Journal of Competitive Learning, Senior Editor (Peer-Reviewed, Open-Access)

2024–Present

Inaugural Issue (Vol. 1, No. 1, May 2025) featuring a co-authored review article: “Programming Contests, Competitive Programming Curricula, and how Everybody Benefits.”

Selected Awards

ICPC North America Championship Silver Medal, Coach, Columbia (2024) ♦ ICPC North America Excellence in Leadership Award (2023) ♦ Outstanding Mentorship—Quatrefoil Medal (2024, 2025) ♦ Outstanding Problem Advisory Medal, ICPC Challenge (2025)

Education

MIT, Ph.D. Operations Research (Entered 2013, On Leave)

Advisor: Asuman Ozdaglar

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

Stanford University, M.S. Computer Science (2013)

Advisor: Fei-Fei Li

Focus on machine learning, computer vision, and scalable AI systems.

Stanford University, B.S. Mathematics & Computer Science (2011)

Advisor: Persi Diaconis

Selected Publications (639+ Citations)

- Guha, A., Lim, C., Reed, B., Jaromczyk, J. W., & Vouga, E. (2025). Programming Contests, Competitive Programming Curricula, and how Everybody Benefits. *The Journal of Competitive Learning*, 1(1).
- Ryan, G., Cetin, B., Lim, Y., & Jana, S. (2024). Accurate data race prediction in the Linux kernel through sparse Fourier learning. *PACMPL*, 8(OOPSLA1), 810–832.
- Lim, Y., Ozdaglar, A., & Teytelboym, A. (2016). Competitive rumor spread in social networks. *ACM SIGMETRICS Performance Evaluation Review*, 44(3), 7–14.
- Li, L.-J., Su, H., Lim, Y., & Fei-Fei, L. (2014). Object bank: An object-level image representation for high-level visual recognition. *IJCV*, 107(1), 20–39.