

Christian Yongwhan Lim

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Citizenship Status

US Citizen

Education

Massachusetts Institute of Technology *9/2013 – 1/2016*
Ph.D. (started, but did not finish) Operations Research
Advisor: Asuman Ozdaglar
2013 Kwanjeong Scholarship recipient, for the entire duration of Ph.D

Stanford University *9/2007 – 1/2013*
M.S. Computer Science (AI Track)
B.S. Honors Computer Science (AI Track) and Mathematics
Advisors: Fei-Fei Li and Persi Diaconis

Professional Experience

Christian and Grace Consulting LLC *4/2023 –*
Owner (Co-Founder)

Two Sigma Investments *7/2022 – 2/2023*
Senior Quantitative Software Engineer

Google *10/2016 – 6/2022*
Tech Lead (Google Kick Start Practice Rounds)
Research Software Engineer (Google Research Brain and Machine Learning)
Software Engineer (Google Ads and Core)

Languages

C++

Fluent in English

Native in Korean

**Selected
Teaching
Experience**

Summer 2024 (to be confirmed)

Summer High School Academic Program for Engineers [SHAPE] (Columbia)

Session 1: Competitive Programming: Intro to the Art of Problem Solving

Session 2: Competitive Programming: Beyond the Basics

Spring 2024

Associate in Computer Science (Columbia)

Competitive Programming (COMS 4995-2)

Science Honors Program [SHP] (Columbia)

Introduction to Algorithms

Fall 2023

Associate in Computer Science (Columbia)

Technical Interview Preparation in C++ (COMS 4995-4)

Competitive Programming (COMS 4995-5)

Visiting Instructor (Cornell-Tech)

Special Workshop Series in Technical Interview Preparation

Spring 2023

Lecturer (MIT)

Associate in Computer Science (Columbia)

Competitive Programming (COMS 4995-8)

Independent Activities Period (IAP) 2023

Lecturer (MIT)

Problem Solving Strategies for Technical Interviews

Fall 2022

Lecturer (MIT)

Associate in Computer Science (Columbia)

Technical Interview Preparation in C++ (COMS 4995-7)

Competitive Programming (COMS 4995-8)

Visiting Instructor (Cornell-Tech)

Special Workshop Series in Technical Interview Preparation

Summer 2022

Lecturer (MIT)

Developed MITx MicroMasters working with Professors Aleksander Madry and Asuman Ozdaglar.

Research Mentor (Harvard) Summer Introduction to Mathematical Research (SIMR) Program

Lectured on network flows

Mentored undergraduate math majors on quantitative analysis in finance.

Spring 2022

Associate in Computer Science (Columbia)

Technical Interview Preparation in C++ (COMS 4995-13)

Visiting Lecturer (Cornell-Tech) Deep Learning (CS 5787)

Fall 2021
Lecturer (CSU Sacramento) Introduction to C Programming (CSC 25)
Lecturer (SJSU) Introduction to the Design and Analysis of Algorithms (CS 155)
Lecturer (CSU East Bay) Professional Development in Computer Science (CS 497)

Summer 2021
Lecturer (UC Santa Cruz) Beginning Programming in Python (CSE 20)

Spring 2021
Lecturer (UC Santa Cruz) Beginning Programming in Python (CSE 20)
Lecturer (CSU East Bay) Professional Development in Computer Science (CS 497)

Fall 2020
Guest Lecturer (Harvard) Advanced Practical Data Science (AC 295)
Guest Lecturer (UC Davis) Software Engineer Early Career Planning (ECS 198)

Fall 2011
Teaching Assistant (Stanford) Introduction to Computer Vision (CS 231A)

Fall 2008 – Spring 2012
Grader (Stanford) Department of Mathematics
Tutor (Stanford) Department of Mathematics

Problem Solving Groups	Carnegie Mellon University	
	Problem Solving Discussion Group (Weekly)	6/2023 –
	Massachusetts Institute of Technology	
	MIT Problem Solving (PS) Club (Weekly)	3/22/2023 – 11/2/2023
	Stanford University	
	Problem Solving Discussion Group (Weekly)	6/2023 – 10/2023
	Spring 2023: Online Technical Interview Bootcamp at Stanford	4/9/2023 – 6/4/2023
	Winter 2023: Information Session	3/9/2023
Programming Training Camps	University of Central Florida (host: Ali Orooji and Arup Guha)	
	Spring 2024	3/28/2024 – 3/31/2024
	Spring 2023	3/21/2023 – 3/25/2023
Selected Technical Interview Workshops	Stanford University	
	Fall 2023	
	Stanford ICPC (host: Konstantin Miagkov)	10/11/2023
	Stanford Computer Forum (host: Trudy Gonzalez)	10/19/2023 & 10/26/2023
	Stanford Institute for Computational and Mathematical Engineering	10/20/2023
	Stanford Alumni Association (host: Michelle Badger)	10/11/2023
	Winter 2023	
	Stanford Alumni Association (host: Michelle Badger)	2/22/2023 & 3/8/2023
	Stanford Computer Forum (host: Trudy Gonzalez)	1/19/2023 & 1/26/2023
	Fall 2022: Stanford Computer Forum (host: Trudy Gonzalez)	10/5/2022 & 10/6/2022
	Carnegie Mellon University Silicon Valley Career Services (host: Leigh Mason)	
	Fall 2023	9/15/2023
	Fall 2022	10/6/2022 & 11/11/2022
	Fall 2021	9/7/2021 & 10/5/2021 & 10/14/2021
	Spring 2021	2/25/2021
	Princeton University (host: Pedro Paredes)	10/25/2023
	New York University (host: Ernest Davis)	4/14/2023
	Swarthmore College (host: Joshua Brody)	
	Fall 2023	9/29/2023

Spring 2023	4/28/2023
University of California Los Angeles (host: UCLA ACM)	4/6/2023 & 4/7/2023
University of California Berkeley	
Fall 2023 (host: Xavier Plourde)	10/14/2023
Fall 2022 (host: Park Sinchaisri)	11/21/2022
University of California San Diego (host: Jingbo Shang)	
Fall 2023	10/14/2023 & 10/21/2023
Fall 2022	10/14/2022 & 10/21/2022
University of Illinois Urbana Champaign (host: Mattox Beckman)	
Fall 2023	9/22/2023
Spring 2023	4/12/2023 & 4/13/2023
University of Texas Austin (host: Etienne Vouga)	4/8/2023 & 4/9/2023
University of Southern California (host: Computer Science)	11/18/2022 & 11/19/2022
Purdue University (host: Ninghui Li)	3/3/2023 & 3/4/2023
Harvard University (host: Office of Career Services)	
Fall 2023	10/18/2023
Fall 2022	10/14/2022
University of Chicago (host: Ziyi Zhang)	10/21/2023
Stony Brook University (host: Rezaul Chowdhury)	9/13/2023 & 9/20/2023
Georgia Institute of Technology (host: Maxwell Zhang)	9/13/2023
University of Waterloo	10/04/2023
McGill University	11/24/2023
University of Calgary	11/10/2023
KTH Royal Institute of Technology	6/12/2023
National University of Singapore Computer Science (host: Steven Halim)	
Spring 2023	2/21/2023 & 2/23/2023
Fall 2022	9/21/2022 & 9/22/2022
UNIST (host: Myeongjae Jeon)	9/28/2022 & 9/29/2022
Seoul National University (host: Taesup Moon)	8/24/2022 & 8/25/2022
KAIST (host: Juho Kim)	8/17/2022 & 8/18/2022

Invited Talks

Columbia University Science Honors Program	2/10/2024
Plenary	
Columbia University Korean Graduate Student Association (KGSA) Career Panel	3/31/2023
Keynote	
Columbia University Application Development Initiative (ADI)	2/22/2023
Competitive Programming Primer	
Columbia Research Symposium (host: Emerging Scholars Program)	4/22/2022
Massachusetts Institute of Technology Open Learning	3/8/2023
Massachusetts Institute of Technology Digital Learning Lab	2/8/2023
Michigan Math and Science Scholars (host: Mark Conger)	7/7/2022

ICPC Experience

Internship Manager	12/2022 –
Interns secured full-time positions including Google, Amazon, Point72, Two Sigma, and etc.	
Manage five different projects by the project leads	
(Lisa Donahoo ⇒ TBD) Education Outreach	
(Jeff Donahoo ⇒ Tomas Cerny and Pranish Bhagat) Full-stack/Data Science	
(Toni Logar) Web Development	
(Fredrik Niemelä) Problem Archive	
(Christian Lim) Online Training in Competitive Programming	
ICPC Online Training in Competitive Programming	1/14/2023 –
(Sunday) Weekly Masterclass; Weekly Intern Project Sync-up;	
Weekday Problem Set	
Weekend Practice Contests	
North America Leadership	6/2023 –
Attend monthly meeting	
Operations	
2024 ICPC North America Championship (NAC)	5/23/2024 – 5/28/2024
2023 ICPC North America Championship (NAC)	5/25/2023 – 5/30/2023
Trainer	
2024 ICPC North America Programming Camp (NAPC)	2/2024 –
Online training	3/2024 – 5/2024
Onsite training	5/23/2024 – 5/28/2024
Judge	
ICPC North America Qualifier (NAQ)	10/2022 –
ICPC Greater New York (GNY) Regional	2/26/2023; 10/29/2023
ICPC Mid-Central North America (MCNA) Regional	10/2022 –
ICPC North Central North America (NCNA) Regional	10/2023 –
ICPC Southern California (SoCal) Regional	10/2023 –
Invited Workshop	9/2023 –
Greater New York Regional (GNYR)	10/1/2023
North Central North America (NCNA)	9/2/2023
Site Director	
2024 ICPC Greater New York Regional (GNYR) at Columbia University	TBD/2024
2023 ICPC Greater New York Regional (GNYR) at Columbia University	10/29/2023
Head Coach Columbia ICPC	2/2022 –
400+ members (3 World Finalists and 5 North America Championship qualifiers) and growing.	
Officially sponsored by Tesla and CertiK in academic year 2022-2023!	
Weekly ICPC GNYR Practice Contests	Spring 2023 –
Weekly ICPC Practice Contests	Summer 2022 –
2023 Columbia University Local Contest	10/15/2023
2022 Columbia University Local Contest	9/25/2022
Columbia-CU later is invited to 2024 NAC	10/29/2023
Columbia-CU later is invited to 2024 North America Programming Camp (NAPC)	10/29/2023
Columbia-fortcoders qualified to 2022 ICPC World Finals, to be held in 4/2024	5/30/2022
Columbia-fortcoders finished 8th in 2022 NAC	5/30/2022
Columbia-fortcoders is invited to 2022 NAC	3/6/2022
Columbia-fortcoders is invited to 2022 NAPC	3/6/2022
Columbia-fortcoders won 2021 ICPC North America GNYR	3/6/2022
15 Columbia teams were represented in 2023 ICPC NA GNYR	10/29/2023
23 Columbia teams were represented in 2022 ICPC NA GNYR	2/26/2023
13 Columbia teams were represented in 2021 ICPC NA GNYR	3/6/2022

**Research
Mentoring
Experience**

Summer 2023 (3 students)

Harvard (2): Alessandro; John;

Columbia (1): Tobias;

Spring 2023 (4 students)

Harvard (2): Alessandro; John;

Columbia (2): Gabriel; Tobias;

Fall 2022 (5 students)

Columbia (3): Samanway; Tobias; Ziwei;

Harvard (2): Alessandro; John;

Summer 2022 (7 students)

Harvard (7): AnaMaria; Alessandro; Andrew; Iris; Jarell; Mayesha; Will;

**Industry
Mentoring
Experience**

edX/2U (Demo Day Mentor)

3/29/2023; 9/27/2023

Two Sigma (2022 NewTS Senior Mentor)

10/2022 – 2/2023

Software Engineer Intern Co-Host (Google)

Summer 2018

**Academic
Mentoring
Experience**

Q1 2024 (17 Students)

Columbia (14): Angela; Benjamin; David; Eric; Gabriel; Harrison; Innokentiy; Isabel; Ken; Matthew; Michael; Prabhpreet; Ryan; Serdar;

Stanford (1): Conner;

Cornell-Tech (2): Adrian; James;

Q4 2023 (40 Students)

Columbia (30): Akash; Angela; Arusarka; Brendan; Chidi; David; Ethan; Greg; Gregory; Harrison; Innokentiy; Jacklyn; Jennifer; Jonathan; Maitar; Matthew; Nicholas; Patricia; Patrick; Rahul; Ryan; Samanway; Serdar; Shubham; Shreyas; Sian; Suro; Vivek; Yin; Yizhan;

Stanford (3): Conner; Parth; Suhas;

CMU (3): Harris; Lin; Yinzhu;

Cornell-Tech (2): Adrian; James;

MIT (2): Nelson; Nina;

Q3 2023 (15 Students)

Columbia (7): Akash; Angela; David; Samanway; Sian; Suro; Yin;

Stanford (3): Conner; Parth; Suhas;

MIT (2): Nelson; Nina;

CMU (2): Lin; Yinzhu;

Cornell-Tech (1): Adrian

Q2 2023 (24 Students)

Columbia (14): Akash; Angela; Christopher; David; Fernando; Hanming; Jaidev; Samanway; Shirley; Sian; Suro; Venkat; Yi; Yin;

Stanford (4): Conner; Dylan; Parth; Suhas;

MIT (2): Nelson; Nina;

CMU (2): Lin; Yinzhu;

Cornell-Tech (1): Adrian;

KAIST (1): Yeji;

Q1 2023 (32 Students)

Columbia (27): Akash; Angel; Angela; Brendan G; Chi; Christopher; Hanming; Jiaqing; Jinze; Lance; Mattias; Mauricio; Maxwell; Pavan; Rong; Roshun; Samanway; Sameer; Shihao; Shirley; Sian; Suro; Weichen; Xingyu; Yin; Yuanhan; Zhen;

Cornell-Tech (3): Adrian; Pamela; Yang;

USC (1): Qingquan;

KAIST (1): Yeji;

Fall 2022 (24 Students)
 Columbia (19): Chiamaka; Christopher; Elijah; Ethan; Eumin; Gaurav; Gilead; Guoxin; Hanfang; Mauricio; Nilaksh; Rong; Shihao; Suro; Venkat; Wenqing; Xiaoyu; Yin; Ziwei;
 Cornell-Tech (5): Adrian; JaeEun; Jiaqing; Pamela; Subin;

Spring 2022 (13 Students)
 Columbia (13): Anais; Andreas; Andrew; Benjamin; Danrui; Ian; Olivia; Sri; Tim; Xijiao; Yuqi; Zhen; Zhihao;

Résumé Critiques

300+ résumés

45-Minute+ Mock Interviews

200+ sessions

Community

Emma Nieh	4/2019 – 10/2022 – 3/2023
Bolim Lee (University of London; CS BSc '25; TBD)	3/2022 – 2/2023
Soyeon Wang (San Jose State University CS BS '21; Full-time at Amazon)	4/2019 – 12/2020

Community Service

Columbia University Commencement Marshall	5/2023
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Beyond the Farm: Stanford Alumni Day of Service	5/6/2023
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Programming bootcamp, open to anyone in the Greater New York community.

Two Sigma × ICPC NAC (8 Competitors)	2/2023
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Member (Two Sigma: ACE Working Group: Design Questions)	11/2022 – 2/2023
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Co-Instructor (Two Sigma: Competitive Programming)	10/2022 – 1/2023
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Instructor (Two Sigma: Competitive Programming)	2/2023
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Presenter (Two Sigma: Work in Progress)	10/20/2022
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Program Committee	8/2022 –
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ACM SIG CS Education (CSE) Technical Symposium 2023: Panels;

ACM ITiCSE 2023: Full Papers; Posters;

Judge

Columbia Data Science Society (CDSS) Hackathon

Fall 2023	10/8/2023
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Spring 2023	2/11/2023
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ACM SIGCSE Technical Symposium 2023: Student Research Competition

Discord Channel Owner	3/2022 –
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Programming Zealots: 1489 members and growing!

Columbia Problem Solving Warriors: 492 members and growing!

Columbia Quant Warriors: 424 members and growing!

Columbia ICPC Training Warriors: 400 members and growing!

ICPC GNYR: 296 members and growing!

Cornell Tech Interview Prep Workshop: 246 members and growing!

MIT IAP Problem Solving Strategies: 147 members and growing!

Stanford Online Technical Interview Bootcamp: 93 members and growing!

CMU Technical Interview Workshop: 42 members and growing!

Stanford CS LINXS Summer Research Program Mentor	Summer 2023
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Stanford Alumni Mentoring (SAM) Mentor	1/2023 –
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Volunteered to be a SAM mentor: 43+ students so far!

Stanford Outreach Volunteer Alumni Link (OVAL) Interviewer	1/2022 – 2/2024
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Volunteered to conduct alumni interviews in NY, NJ, and MA chapters.

2023: 46+ (3 admitted!)

2022: 26+

	Tech Lead (Google Kick Start Practice Rounds) <i>10/2020 – 11/2021</i> Selected problems to use in the practice round. Set up contest dashboards for participants to use. Mentored engineering volunteers in order to guide them to complete their tasks. Appeared on videos to go over the solutions to problems and introduce the program.
	Software Engineer Interviewer (Google) <i>2017 – 2022</i> Volunteered to conduct 55+ interviews at Google.
	Software Engineer Instructor (New Community Baptist Church) <i>4/2019 – 12/2020</i> Taught C++, algorithms, and computer science mathematics ground-up, 4 hours every Saturday. Created course syllabus outlining the entire contents of the course. Created slides weekly following the syllabus and presented them to students. Assigned homework weekly and discussed its solutions the following week. Discussed problem solving strategies: data structure, graph, math, string, and geometry.
	Competitive Programming Group Founder (Google) <i>11/2017 – 1/2021</i> Created an internal group in Google for those who want to excel in programming contests. Met twice each weekday, two hours each: 8am and 5pm.
	Google Code Jam Monitor (Google) <i>2018 – 2022</i> Google Code Jam is an annual programming contest to recruit software engineers at Google. Monitored to answer questions contestants asked during the live contest.
Invited Career Fair	Representative Cornell-Tech Career Fair <i>10/7/2023</i>
Leadership Experience	Organizing Committee ACM SIGCSE Technical Symposium 2024-2025 (Publicity and Social Media) <i>2/2023 –</i> Technical Committee (MIT Digital Learning Lab) <i>10/2022 – 6/2023</i> Co-lead w/ Kathryn Traxler (ICPC: New Coach Document Committee) <i>10/2022 –</i> Co-lead w/ Etienne Vouga (ICPC: Curriculum Committee) <i>7/2022 –</i> East-Coast President (Kwanjeong Scholarship) <i>Academic Year (AY) 2013</i> Social Chair/Webmaster (Stanford) Symphony Orchestra <i>AY 2010 & 2011</i> Vice-President (Stanford) Mathematics Organization <i>AY 2009</i> Webmaster/Historian Director (Stanford) Korean Student Association <i>AY 2009</i>
Reviewer	NSF Grants: 2023 ACM ITiCSE: 2023; 2024; ACM CompEd: 2023 ACM SIGCSE: 2023; 2024; IEEE Transactions on Network Science and Engineering (TNSE)
Research Experience	Optimization & Network Game Theory (Asuman Ozdaglar, MIT) <i>Fall 2013 – Fall 2016</i> Markov Chain & Mixing Time Analysis (Persi Diaconis, Stanford) <i>Winter 2010 – Fall 2012</i> Stanford Computer Vision Lab (Fei-Fei Li, Stanford) <i>Fall 2009 – Fall 2011</i> Analytic Number Theory (Kannan Soundararajan, Stanford) <i>Fall 2008 – Summer 2009</i>

Scholarships and Awards

2023 ICPC North America – Excellence in Leadership Award

Kwanjeong Scholarship – Received a major scholarship from Korea in 2013.

ACM-ICPC Pacific Northwest Regional Contest – Ranked 7th in 2012, 9th in 2011;

Google Code Jam – Advanced to 2012 Online Round 2 (Top 3000).

Facebook Hacker Cup – Advanced to 2011 Online Final. Won t-shirt in 2015 (Top 500); 2020.

TopCoder Open – Won t-shirt by solving a problem in 2019 Round 3 (Top 400).

Mathematical Contest in Modeling – Won 2009 Meritorious Prize.

Putnam Mathematics Competition – Won 2008 Highbridge Book Awards (Top 65 at Stanford).

Michigan Mathematics Prize Competition – Ranked 2nd (Gold Award) out of 9.3K+ in 2007.

Selected Publications

Operations Research (MIT) Yongwhan Lim, Asuman Ozdaglar, and Alexander Teytelboym.

“Competitive rumor spread in social networks.”

ACM SIGMETRICS Performance Evaluation Review 44.3 (2017): 7-14.

Operations Research (MIT) Yongwhan Lim, Asuman Ozdaglar, and Alexander Teytelboym.

“A simple model of cascades in networks.”

Mimeo. 2015.

Computer Vision (Stanford) Li-Jia Li, Hao Su, Yongwhan Lim, and Li Fei-Fei.

“Object Bank: An Object-Level Image Representation for High-Level Visual Recognition.”

International Journal of Computer Vision (IJCV). 2013.

Computer Vision (Stanford) Li-Jia Li, Hao Su, Yongwhan Lim, and Li Fei-Fei.

“Objects as Attributes for Scene Classification.”

First International Workshop on Parts and Attributes.

European Conference on Computer Vision (ECCV). 2010.

Computer Vision (Stanford) Li-Jia Li, Chong Wang, Yongwhan Lim, David Blei and Li Fei-Fei.

“Building and Using a Semantivisual Image Hierarchy.”

IEEE Computer Vision and Pattern Recognition (CVPR). 2010.

Mathematics (Stanford) Yongwhan Lim.

“Symmetry Groups of Platonic Solids.”

Mimeo. 2008.

Competitive Programming Training

CodeForces

4809 problems solved (rank: 39th/1125981 \approx top .003%)

rated **2129** (rank: 2279th/153968 \approx top 1.48%)

Kattis

3940.2 points (rank: 65nd [Overall] and 12th/32705 \approx top .03% [USA])

acmicpc.net / solved.ac

2088 problems solved (rank: 259th/509912 \approx .05%)

rated **2598** (rank: 246th/144074 \approx .17%)