

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 (OR)
Advisor: Asuman Ozdaglar
2013 Kwanjeong Scholarship recipient, for the entire duration of Ph.D

Stanford University *9/2007 – 1/2013*
M.S. Computer Science (CS) (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**

Fall 2024 (to be confirmed)

Associate in Computer Science (Columbia)

Competitive Programming (COMS 4995-7)

Advanced Topics in Competitive Programming (COMS 6998-4)

Co-instructing with Josh Alman

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)

**Selected
Invited
Workshops**

Stanford University		
Winter 2024		
Stanford ICPC (host: Nikil Selvam)		4/26/2024
Stanford Computer Forum (host: Trudy Gonzalez)		4/25/2024
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)		4/28/2023 & 9/29/2023
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)		
Spring 2024	5/3/2024 &	5/10/2024
Fall 2023	10/14/2023 &	10/21/2023
Fall 2022	10/14/2022 &	10/21/2022
University of Illinois Urbana Champaign (host: Mattox Beckman)		
Spring 2024		5/1/2024
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)		
Spring 2024		4/2/2024
Fall 2023	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
KTH Royal Institute of Technology		6/12/2023
National University of Singapore (host: Steven Halim)		9/2022 & 2/2023
Seoul National University (host: Taesup Moon)		8/24/2022 & 8/25/2022
KAIST (host: Juho Kim)		8/17/2022 & 8/18/2022

Problem Solving Groups	Carnegie Mellon University	
	Problem Solving Discussion Group (Weekly)	<i>6/2023 –</i>
	Massachusetts Institute of Technology	
	MIT Problem Solving (PS) Club (Weekly)	<i>3/22/2023 – 11/2/2023</i>
	Stanford University	
	Problem Solving Discussion Group (Weekly)	<i>6/2023 – 10/2023</i>
Programming Training Camps	Spring 2023: Online Technical Interview Bootcamp at Stanford	<i>4/9/2023 – 6/4/2023</i>
	Winter 2023: Information Session	<i>3/9/2023</i>
	University of Central Florida (host: Ali Orooji and Arup Guha)	
	Spring 2024	<i>3/28/2024 – 3/31/2024</i>
	Spring 2023	<i>3/21/2023 – 3/25/2023</i>
Selected Invited Talks	Columbia University Science Honors Program	<i>2/10/2024</i>
	Plenary	
	Columbia University Korean Graduate Student Association (KGSA) Career Panel	<i>3/31/2023</i>
	Keynote	
	Columbia University Application Development Initiative (ADI)	<i>2/22/2023</i>
	Competitive Programming Primer	
	Columbia Research Symposium (host: Emerging Scholars Program)	<i>4/22/2022</i>
	Massachusetts Institute of Technology Open Learning	<i>3/8/2023</i>
	Massachusetts Institute of Technology Digital Learning Lab	<i>2/8/2023</i>
	Michigan Math and Science Scholars (host: Mark Conger)	<i>7/7/2022</i>

**Selected
ICPC
Experience**

Co-Lead	
ICPC World Finals Competitive Learning Institute (CLI) Symposium Education Initiative	4/2024
Curriculum Committee at ICPC North America	7/2022 –
New Coach Document Committee at ICPC North America	10/2022 –
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) 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 Live Guest @ Regional	2024
ICPC North Central North America (NCNA) Regional	10/2023 –
Consortium for Computing Sciences in Colleges (CCSC)	
High School Contest (HSC)	
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	<i>2/2022 –</i>
400+ members (3 World Finalists and 5 North America Championship qualifiers) and growing.	
Officially sponsored by Tesla and CertiK in academic year 2022-2023!	
B-Weekly ICPC GNYR Practice Contests	<i>Spring 2023 –</i>
Bi-Weekly ICPC Practice Contests	<i>Summer 2022 –</i>
Columbia University Local Contest	<i>2022 –</i>
3rd	<i>4/24/2024</i>
2nd	<i>10/15/2023</i>
1st	<i>9/25/2022</i>
Columbia-CU later	
invited to 2024 NAC	<i>10/29/2023</i>
invited to 2024 North America Programming Camp (NAPC)	<i>10/29/2023</i>
Columbia-fortcoders	
finished 26th in 2022 ICPC World Finals	<i>4/18/2024</i>
finished 8th in 2022 NAC	<i>5/30/2022</i>
invited to 2022 NAPC	<i>3/6/2022</i>
won 2021 ICPC North America GNYR	<i>3/6/2022</i>
ICPC NA GNYR	
15 Columbia teams	<i>10/29/2023</i>
23 Columbia teams	<i>2/26/2023</i>
13 Columbia teams	<i>3/6/2022</i>

**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**

Q2 2024 (16 Students+)
Columbia (14): Angela; Benjamin; David; Eric; Gabriel; Harrison; Innokentiy; Isabel; Ken; Matthew;
Michael; Prabhpreet; Ryan; Serdar;
Cornell-Tech (2): Adrian; James;

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

**Selected
Community
Service**

MATHCOUNTS Volunteer @ Manhattan and New York	<i>2024</i>
Columbia University Commencement Marshall	<i>5/2023</i>
Beyond the Farm: Stanford Alumni Day of Service Programming bootcamp, open to anyone in the Greater New York community.	<i>5/6/2023</i>
Two Sigma × ICPC NAC (8 Competitors)	<i>2/2023</i>
Member (Two Sigma: ACE Working Group: Design Questions)	<i>11/2022 – 2/2023</i>
Co-Instructor (Two Sigma: Competitive Programming)	<i>10/2022 – 1/2023</i>
Instructor (Two Sigma: Competitive Programming)	<i>2/2023</i>
Presenter (Two Sigma: Work in Progress)	<i>10/20/2022</i>
Program Committee ACM SIG CS Education (CSE) Technical Symposium 2023: Panels; ACM ITiCSE 2023: Full Papers; Posters;	<i>8/2022 –</i>
Judge Columbia Data Science Society (CDSS) Hackathon Fall 2023 Spring 2023 ACM SIGCSE Technical Symposium 2023: Student Research Competition	<i>10/8/2023</i> <i>2/11/2023</i>
Discord Channel Owner Programming Zealots: 1525 members and growing! Columbia Problem Solving Warriors: 491 members and growing! Columbia Quant Warriors: 431 members and growing! Columbia ICPC Training Warriors: 400 members and growing! ICPC GNYR: 306 members and growing! Cornell Tech Interview Prep Workshop: 247 members and growing! MIT IAP Problem Solving Strategies: 145 members and growing! Stanford Online Technical Interview Bootcamp: 92 members and growing! CMU Technical Interview Workshop: 40 members and growing!	<i>3/2022 –</i>
Stanford CS LINXS Summer Research Program Mentor	<i>Summer 2023</i>
Stanford Alumni Mentoring (SAM) Mentor Volunteered to be a SAM mentor: 43+ students so far!	<i>1/2023 –</i>
Stanford Outreach Volunteer Alumni Link (OVAL) Interviewer Volunteered to conduct alumni interviews in NY, NJ, and MA chapters. 2023: 46+ (3 admitted!) 2022: 26+	<i>1/2022 – 2/2024</i>
Tech Lead (Google Kick Start Practice Rounds) 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.	<i>10/2020 – 11/2021</i>
Software Engineer Interviewer (Google) Volunteered to conduct 55+ interviews at Google.	<i>2017 – 2022</i>
Competitive Programming Group Founder (Google) 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.	<i>11/2017 – 1/2021</i>
Google Code Jam Monitor (Google) Google Code Jam is an annual programming contest to recruit software engineers at Google. Monitored to answer questions contestants asked during the live contest.	<i>2018 – 2022</i>

**Invited
Career Fair**

Representative

Cornell-Tech Career Fair

10/7/2023

**Selected
Leadership
Experience**

Organizing Committee

ACM SIGCSE Technical Symposium 2024-2025 (Publicity and Social Media) *2/2023 –*

Technical Committee (MIT Digital Learning Lab) *10/2022 – 6/2023*

East-Coast President (Kwanjeong Scholarship) *Academic Year (AY) 2013*

Social Chair/Webmaster (Stanford) Symphony Orchestra *AY 2010 & 2011*

Vice-President (Stanford) Mathematics Organization *AY 2009*

Webmaster/Historian Director (Stanford) Korean Student Association *AY 2009*

**Reviewer
Experience**

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) *Fall 2013 – Fall 2016*

Markov Chain & Mixing Time Analysis (Persi Diaconis, Stanford) *Winter 2010 – Fall 2012*

Stanford Computer Vision Lab (Fei-Fei Li, Stanford) *Fall 2009 – Fall 2011*

Analytic Number Theory (Kannan Soundararajan, Stanford) *Fall 2008 – Summer 2009*

**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.

Competitive Programming Training

Progress Chart

5-Year Plan

CodeForces

4874 problems solved (rank: 41th/1167157 \approx top .003%)
rated **2129** (rank: 2183th/153378 \approx top 1.42%)

Kattis

4541.9 points (rank: 45th [Overall] and 9th/33110 \approx top .02% [USA])

acmicpc.net / solved.ac

2130 problems solved (rank: 270th/531292 \approx .05%)
rated **2597** (rank: 263th/154773 \approx .17%)

Selected Publications

- [1] **CS** (Columbia) Gabriel Ryan, Burcu Cetin, Yongwhan Lim, and Suman Jana.
“Accurate Data Race Prediction in the Linux Kernel through Sparse Fourier Learning”
Proceedings of the ACM on Programming Languages, Volume 8, Issue OOPSLA1. 2024.
- [2] **OR** (MIT) Yongwhan Lim, Asuman Ozdaglar, and Alexander Teytelboym.
“Competitive rumor spread in social networks”
ACM SIGMETRICS Performance Evaluation Review 44.3 (2017): 7-14
- [3] **OR** (MIT) Yongwhan Lim, Asuman Ozdaglar, and Alexander Teytelboym.
“A simple model of cascades in networks”
Mimeo. 2015.
- [4] **CS** (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.
- [5] **CS** (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.
- [6] **CS** (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.
- [7] **Mathematics** (Stanford) Yongwhan Lim.
“Symmetry Groups of Platonic Solids”
Mimeo. 2008.