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*

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)

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	*4/2019 −*
Emma Nieh	*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*
	Beyond the Farm: Stanford Alumni Day of Service	*5/6/2023*
	Programming bootcamp, open to anyone in the Greater New York community.	
	Two Sigma × ICPC NAC (8 Competitors)	*2/2023*
	Member (Two Sigma: ACE Working Group: Design Questions)	*11/2022 − 2/2023*
	Co-Instructor (Two Sigma: Competitive Programming)	*10/2022 − 1/2023*
	Instructor (Two Sigma: Competitive Programming)	*2/2023*
	Presenter (Two Sigma: Work in Progress)	*10/20/2022*
	Program Committee	*8/2022 −*
	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*
	Spring 2023	*2/11/2023*
	ACM SIGCSE Technical Symposium 2023: Student Research Competition	
	Discord Channel Owner	*3/2022 −*
	Programming Zealots: 1488 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*
	Stanford Alumni Mentoring (SAM) Mentor	*1/2023 −*
	Volunteered to be a SAM mentor: 43+ students so far!	
	Stanford Outreach Volunteer Alumni Link (OVAL) Interviewer	*1/2022 − 2/2024*
	Volunteered to conduct alumni interviews in NY, NJ, and MA chapters.	
	2023: 46+ (3 admitted!)	
	2022: 26+	

Tech Lead (Google Kick Start Practice Rounds) *10/2020 − 11/2021*
  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) *2017 − 2022*
  Volunteered to conduct 55+ interviews at Google.

Software Engineer Instructor (New Community Baptist Church) *4/2019 − 12/2020*
  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) *11/2017 − 1/2021*
  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) *2018 − 2022*
  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 *10/7/2023*

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*

Co-lead w/ Kathryn Traxler (ICPC: New Coach Document Committee) *10/2022 −*
Co-lead w/ Etienne Vouga (ICPC: Curriculum Committee) *7/2022 −*

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 **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.

Scholarships and Awards

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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 ≈ top .003%)
rated **2129** (rank: 2279th/153968 ≈ top 1.48%)

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

acmicpc.net / solved.ac
2088 problems solved (rank: 259th/509912 ≈ .05%)
rated **2598** (rank: 246th/144074 ≈ .17%)