

## Christian Yongwhan Lim

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### Contact Information

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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**

**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)

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** (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

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

## ICPC Experience

### Co-Lead

ICPC World Finals Competitive Learning Institute (CLI) Symposium *4/2024*  
Education Initiative  
Curriculum Committee at ICPC North America *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  $\Rightarrow$  TBD) Education Outreach

(Jeff Donahoo  $\Rightarrow$  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*

<b>Head Coach</b> 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



**Community  
Service**

<b>MATHCOUNTS Volunteer @ Manhattan and New York</b>	<i>2024</i>
<b>Columbia University Commencement Marshall</b>	<i>5/2023</i>
<b>Beyond the Farm: Stanford Alumni Day of Service</b> Programming bootcamp, open to anyone in the Greater New York community.	<i>5/6/2023</i>
<b>Two Sigma × ICPC NAC (8 Competitors)</b>	<i>2/2023</i>
<b>Member</b> (Two Sigma: ACE Working Group: Design Questions)	<i>11/2022 – 2/2023</i>
<b>Co-Instructor</b> (Two Sigma: Competitive Programming)	<i>10/2022 – 1/2023</i>
<b>Instructor</b> (Two Sigma: Competitive Programming)	<i>2/2023</i>
<b>Presenter</b> (Two Sigma: Work in Progress)	<i>10/20/2022</i>
<b>Program Committee</b> ACM SIG CS Education (CSE) Technical Symposium 2023: Panels; ACM ITiCSE 2023: Full Papers; Posters;	<i>8/2022 –</i>
<b>Judge</b> 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>
<b>Discord Channel Owner</b> 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>
<b>Stanford CS LINXS Summer Research Program Mentor</b>	<i>Summer 2023</i>
<b>Stanford Alumni Mentoring (SAM) Mentor</b> Volunteered to be a SAM mentor: 43+ students so far!	<i>1/2023 –</i>
<b>Stanford Outreach Volunteer Alumni Link (OVAL) Interviewer</b> Volunteered to conduct alumni interviews in NY, NJ, and MA chapters. 2023: 46+ (3 admitted!) 2022: 26+	<i>1/2022 – 2/2024</i>
<b>Tech Lead</b> (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>
<b>Software Engineer Interviewer</b> (Google) Volunteered to conduct 55+ interviews at Google.	<i>2017 – 2022</i>
<b>Competitive Programming Group Founder</b> (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>
<b>Google Code Jam Monitor</b> (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

**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  
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 2<sup>nd</sup> (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

**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.