

Yongwhan Lim

Contact Information

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Citizenship Status

Permanent Resident of the United States of America.
Citizen of the Republic of Korea.

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

Stealth Mode Startup Co-Founder *3/2023 –*

Christian and Grace Consulting Co-Founder *3/2023 –*

Two Sigma Investments Senior Quantitative Software Engineer *7/2022 – 2/2023*
Served as an instructor for a competitive programming course.
Implemented fixed income quantitative strategies and email alert and analytic tools.
Helped to drive multiple Human Resources (HR) initiatives.

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

Research Assistant (MIT) Optimization & Network Game Theory Group *Fall 2013 – Fall 2015*

Software Development Engineer Intern (Microsoft) *Summer 2012*

Research Assistant (Stanford) Computer Vision Lab *Fall 2009 – Fall 2011*

Languages

C++ w/ the Standard Template Library.
Fluent in English and Native in Korean.

Teaching Experience

Rated 5.0/5 at Columbia University based on 57 reviews <https://www.ratemyprofessors.com>.
All official course evaluations from Columbia University can be found in [link](#).

Fall 2023

Associate in Computer Science (Columbia)
(to be confirmed) Competitive Programming
(to be confirmed) Technical Interview Preparation in C++
(to be confirmed) **Visiting Instructor** (Cornell-Tech)

Spring 2023

Lecturer (MIT)
Associate in Computer Science (Columbia)
Competitive Programming (COMS 4995-8; 174 students + 3 CVNs + 37 observers)

Independent Activities Period (IAP) 2023

Lecturer (MIT)
Problem Solving Strategies for Technical Interviews (255 students interested)

Fall 2022

Lecturer (MIT)
Associate in Computer Science (Columbia)
Technical Interview Preparation in C++ (COMS 4995-7; 48 students + 74 observers)
Course Evaluation (Overall Instructor Quality): **4.83**/5 from 29 students out of 48 students
Competitive Programming (COMS 4995-8; 55 students + 50 observers)
Course Evaluation (Overall Instructor Quality): **4.70**/5 from 43 students out of 52 students
Visiting Instructor (Cornell-Tech)
Special Workshop Series in Technical Interview Preparation (148 students + 1 observer)

Summer 2022

Lecturer (MIT)
Develop MITx MicroMasters working with Professors Aleksander Madry and Asuman Ozdaglar.
Research Mentor (Harvard) Summer Introduction to Mathematical Research (SIMR) Program
Lecture on network flows
Mentor undergraduate math majors on quantitative analysis in finance.

Spring 2022

Associate in Computer Science (Columbia)
Technical Interview Preparation in C++ (COMS 4995-13; 52 students + 80 observers)
Course Evaluation (Overall Instructor Quality): **4.91**/5 from 45 students out of 52 students
Visiting Lecturer (Cornell-Tech) Deep Learning (CS 5787)

**Teaching
Experience
(con't)**

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

Invited Talks

International Collegiate Programming Contest (ICPC) Training Camp

(to be confirmed) **National University of Singapore** (host: Steven Halim) 8/2024

University of Central Florida (host: Ali Orooji and Arup Guha) 3/21/2023 – 3/25/2023

Extended Workshops on Technical Interviews

Stanford University (host: Trudy Gonzalez)

Spring 2023: Online Technical Interview Bootcamp at Stanford 4/9/2023 – 6/4/2023

Every Sundays at 12pm PT for 3 hours.

Winter 2023: Information Session 3/9/2023

Carnegie Mellon University – Silicon Valley (host: Leigh Mason)

Spring 2023 1/19; 2/4; 2/18; 3/4; 3/18; 4/1; 4/15

Every other Saturdays at 12pm PT for 5 hours.

Massachusetts Institute of Technology

MIT Problem Solving (PS) Club 3/22/2023 –

Every Wednesdays at 7pm ET for 2 hours.

Special Workshops on Technical Interviews [slide decks]

Stanford University

Winter 2023: Stanford Alumni Association (host: Michelle Badger) 2/22/2023 & 3/8/2023

Winter 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 (host: Leigh Mason)

Fall 2022: CMU Career Services 10/6/2022 & 11/11/2022

Fall 2021: CMU Career Services 9/7/2021 & 10/5/2021 & 10/14/2021

Spring 2021: CMU Career Services 2/25/2021

Swarthmore College (host: Joshua Brody)

4/28/2023

University of California Los Angeles (host: UCLA ACM)

4/6/2023 & 4/7/2023

University of California Berkeley (host: Park Sinchaisri)

11/21/2022

University of California San Diego (host: Jingbo Shang)

10/14/2022 & 10/21/2022

University of Illinois Urbana Champaign (host: Mattox Beckman)

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)

10/14/2022

University of Wrocław

6/15/2023 & 6/16/2023

KTH Royal Institute of Technology

6/12/2023

(to be confirmed) **University of Tokyo**

Summer 2024

National University of Singapore (host: Steven Halim)

Spring 2023: Computer Science 2/21/2023 & 2/23/2023

Fall 2022: Computer Science 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

“CS is a Dream Come True!” [slide deck]

Michigan Math and Science Scholars (host: Mark Conger) 7/7/2022

Columbia Research Symposium (host: Emerging Scholars Program) 4/22/2022

Columbia University Korean Graduate Student Association Career Panel: Keynote 3/31/2023

Open Learning at Massachusetts Institute of Technology 3/8/2023

Introduce how to use Google products.

Digital Learning Lab at Massachusetts Institute of Technology 2/8/2023

ICPC Experience

Site Director

2023 ICPC Greater New York Regional (GNYR) at Columbia University

10/29/2023

Staff

2023 ICPC North America Championship (NAC)

5/25/2023 – 5/30/2023

Judge

Columbia Data Science Society (CDSS) Hackathon

2/11/2023

2022 ICPC Greater New York Regional (GNYR)

2/26/2023

ICPC North America Qualifier (NAQ)

10/2022 –

ICPC Mid-Central Regional

10/2022 –

Internship Manager

12/2022 –

The current count of interns in 2023 internship initiative is 43!

24 discontinued after securing a full-time job!

ICPC Online Training in Competitive Programming

1/14/2023 –

Weekly Sunday ICPC Internship Sync-up from 9am ET to 11am ET.

Weekly Sunday ICPC Practice Contests from 12pm ET to 5pm ET.

Weekly Sunday ICPC Masterclass from 7pm ET.

Head Coach Columbia ICPC [\[link\]](#)

2/2022 –

355+ members (3 world finalists) and growing.

Officially sponsored by Tesla and CertiK. Soon to be officially sponsored by more companies.

Weekly Wednesday ICPC GNYR Practice Contests from 7pm ET to 9:30pm ET. *Spring 2023 –*

Weekly Saturday ICPC Practice Contests from 12pm ET to 5pm ET.

Fall 2022 –

Weekly Saturday ICPC Practice Contests from 12pm ET to 5pm ET.

Summer 2022

2023 Columbia University Local Contest (CULC) will be organized.

8/2023

2022 CULC is organized.

9/25/2022

Columbia-fortcoders qualified to 2022 ICPC World Finals, to be held in 11/2023.

5/30/2022

Columbia-fortcoders finished 8th in 2022 NAC.

5/30/2022

Columbia-fortcoders is invited to 2022 North America Championship (NAC).

3/6/2022

Columbia-fortcoders is invited to 2022 North America Programming Camp (NAPC).

3/6/2022

Columbia-fortcoders won 2021 ICPC North America (NA) GNYR.

3/6/2022

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

Spring 2023

Gabriel Ryan (Columbia: SEAS CS PhD '23; co-advised with Professor Suman Jana)

Tobias Hanl (Columbia: SEAS CS MS '23 [Fall]; co-advised with Professor Zhou Yu)

Alessandro Barbiellini Amidei (Harvard: Math AB '25 [Spring])

John Michael Boesen (Harvard: Applied Math + CS AB '25 [Spring])

Fall 2022

Alessandro Barbiellini Amidei (Harvard: Math AB '25 [Spring])

John Michael Boesen (Harvard: Applied Math + CS AB '25 [Spring])

Samanway Sadhu (Columbia: SEAS CS MS '22 [Fall]; co-advised with Professor Suman Jana)

Tobias Hanl (Columbia: SEAS CS MS '23 [Fall]; co-advised with Professor Zhou Yu)

Ziwei Han (Columbia: SEAS CS MS '22 [Fall]; co-advised with Professor Lydia Chilton)

Summer 2022

Alessandro Barbiellini Amidei (Harvard: Math AB '25 [Spring])

Iris Lang (Harvard: Statistics + CS AB '25 [Spring])

Will Hahn (Harvard: AB '25 [Spring])

Jarell Cheong Tze Wen (Harvard: Math AB '25 [Spring])

AnaMaria Perez (Harvard: Math AB '24 [Spring])

Mayesha Soshi (Harvard: Applied Math AB '24 [Spring])

Andrew Van Camp (Harvard: Applied Math AB '23 [Spring])

**Industry
Mentoring
Experience**

2U (Demo Day Mentor)

3/29/2023

Two Sigma (2022 NewTS Senior Mentor)

10/2022 – 2/2023

Software Engineer Intern Co-Host (Google)

Summer 2018

Q2 2023 (49+ Students)

Q1 2023 (32 Students)

Adrian-Petru Surani (Cornell-Tech)
Akash Nayar (Columbia)
Angel David Sanchez Ocotlan (Columbia)
Angela Mu (Columbia)
Brendan Gubbins (Columbia)
Chi Lee (Columbia)
Christopher Jaehyun Yoon (Columbia)
Hanming Yang (Columbia)
Jiaqing Chen (Columbia)
Jinze Wu (Columbia)
Lance D Wong (Columbia)
Mattias Wei Hao Weaser (Columbia)
Mauricio Gonnzalez (Columbia)
Maxwell Alan Lu (Columbia)
Pamela (Pingyue) Pan (Cornell-Tech)
Pavan Kalyan Damalapati (Columbia)
Qingquan (Megan) Wang (USC)
Rong Bai (Columbia)
Roshun Sunder (Columbia)
Samanway Sadhu (Columbia)
Sameer Saxena (Columbia)
Shihao Wang (Columbia)
Shirley (Xinyue) Gui (Columbia)
Sian Lee Kitt (Columbia)
Suro Lee (Columbia)
Weichen Li (Columbia)
Xingyu Lan (Columbia)
Yang Su (Cornell-Tech)
Yeji Han (KAIST)
Yin Zhou (Columbia)
Yuanhan Tian (Columbia)
Zhen Lei (Columbia)

**Industry
Mentoring
Experience
(con't)**

Fall 2022 (24 Students)

Adrian-Petru Surani (Cornell-Tech: CS MS '23 [Spring]; TBD)
Chiamaka Chukwuka (Columbia: SEAS CS BS '23 [Spring]; Full-time at Google)
Christopher Yoon (Columbia: CC CS BA '24 [Spring]; 2023 Internship at Virtu)
Elijah Journey Fullerton (Columbia: CC IS BA '24 [Spring]; TBD)
Ethan Zachary Turok (Columbia: SEAS CS BS '23 [Spring]; TBD)
Eumin Hong (Columbia: CC CS BA '23 [Spring]; Full-time at The Voleon Group)
Gaurav Sinha (Columbia: SEAS CS MS '22 [Fall]; TBD)
Gilead Turok (Columbia: CC CS + Applied Math (double) BA '23 [Spring]; TBD)
Guoxin Yin (Columbia: SEAS CS MS '22 [Fall]; TBD)
Hanfang Luo (Columbia: CC CS BA '24 [Spring]; 2023 Internship at Amazon)
JaeEun Lee (Cornell-Tech: CS MEng '23 [Spring]; Full-time at Veeva Systems)
Jiaqing Chen (Columbia: SEAS CS MS '22 [Fall]; Full-time at Goldman Sachs)
Mauricio Gonzalez (Columbia: CC CS BA '23 [Fall]; TBD)
Nilaksh Agarwal (Columbia: SEAS CS MS '22 [Fall]; TBD)
Pingyue (Pamela) Pan (Cornell-Tech: Information Systems MS '24 [Spring]; TBD)
Rong Bai (Columbia: SEAS CS MS '22 [Fall]; Full-time at U.S. Bank)
Shihao Wang (Columbia: SEAS CS MS '22 [Fall]; Full-time at Amazon)
Subin Yun (Cornell-Tech: Information Systems MS '24 [Spring]; TBD)
Suro Lee (Columbia: SEAS CS MS '23 [Fall]; TBD)
Venkat Ramamoorthi (Columbia: GS CS BA '23 [Spring]; TBD)
Wenqing Zhong (Columbia: SEAS CS BS '22 + MS '23 [Spring]; TBD)
Xiaoyu Liu (Columbia: SEAS EE MS '22 [Fall]; Full-time at Veeva Systems)
Yin Zhou (Columbia: SEAS Applied Math PhD '25 [Spring]; TBD)
Ziwei Han (Columbia: SEAS CS MS '22 [Fall]; Fulltime at IXL Learning)

Spring 2022 (13 Students)

Anais Lawson (Columbia: SEAS CS BS '23 [Spring]; 2023 Internship at Microsoft)
Andreas Cheng (Columbia: GS CS BA '22 [Spring]; Full-time at IXL Learning)
Andrew Sirenko (Columbia: SEAS CS BS '23 [Spring]; Full-time at Amazon)
Benjamin Snyder (Columbia: SEAS CS BS '22 [Spring]; Full-time at Google)
Danrui Yu (Columbia: SEAS CS MS '22 [Spring]; Full-time at Google)
Ian Dorian Macleod (Columbia: SEAS CS BS '23 + MS '23 [Spring]; Full-time at Scale AI)
Olivia Zhang (Columbia: SEAS CS BS '22 [Spring]; Full-time at Goldman Sachs)
Sri Hari Thikkireddy (Columbia: SEAS CS MS '22 [Spring]; Full-time at Google)
Tim Kao (Columbia: SEAS CS MS '22 [Spring]; Full-time at Google)
Xijiao Li (Columbia: SEAS CS BS '21 + MS '22 [Spring]; Full-time at Google)
Yuqi Zhang (Columbia: SEAS CS BS '22 [Spring]; Full-time at TikTok)
Zhen Lei (Columbia: SEAS CS MS '22 [Spring]; Full-time at Amazon)
Zhihao Jiang (Columbia: SEAS CS MS '22 [Spring]; Full-time at Amazon)

Résumé Critiques

150+ résumés

45-Minute Mock Interviews

50+ sessions

Community

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

Community Service

Beyond the Farm: Stanford's Alumni Day of Service	<i>5/6/2023</i>
Programming boot camp, open to anyone in the Greater New York community.	
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	<i>8/2022 –</i>
ACM SIGCSE Technical Symposium 2023: Panels; Student Research Competition Judge;	
ACM ITiCSE 2023: Full Papers; Posters;	
Discord Channel Owner	<i>3/2022 –</i>
ICPC CodeForces Zealots: 886 members and growing!	
Includes all members from 2023 ICPC NAC-NAPC participants who elected to join!	
ICPC GNYR: 93 members and growing!	
(Columbia) Problem Solving Warriors: 428 members and growing!	
(Columbia) ICPC Training Warriors: 353 members and growing!	
(Columbia) Hedge Funds Warriors: 342 members and growing!	
MIT IAP Problem Solving Strategies: 156 members and growing!	
Cornell Tech Interview Prep Workshop: 100 members and growing!	
Online Technical Interview Bootcamp at Stanford: 37 members and growing!	
CMU Technical Interview Workshop: 34 members and growing!	
Stanford Alumni Mentoring (SAM) Mentor	<i>1/2023 –</i>
Volunteered to be a SAM mentor: 14+ students so far!	
Stanford University Outreach Volunteer Alumni Link (OVAL) Interviewer	<i>1/2022 –</i>
Volunteered to conduct alumni interviews in NY, NJ, and MA chapters.	
2023: 46+	
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.	

Leadership Experience	Organizing Committee	<i>2/2023 –</i>
	ACM SIGCSE Technical Symposium 2024-2025 (Publicity and Social Media)	
	Technical Committee (MIT Digital Learning Lab)	<i>10/2022 –</i>
	Co-lead w/ Rachel Krohn (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	ACM ITiCSE 2023	
	ACM SIGCSE 2023	
	IEEE Transactions on Network Science and Engineering (TNSE)	
Scholarships and Awards	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 nd (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.

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>