

## Yongwhan Lim

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### 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. (Extended Leave of Absence) 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

### Languages

C++ w/ the Standard Template Library.  
Comfortable with Java, Go, Python, SQL, Angular Dart, MATLAB, and R.  
Fluent in English and Native in Korean.

### Professional Experience

**Two Sigma Investments** *7/2022 –*  
**Senior Quantitative Software Engineer** (Derivative Engineering)  
**Google** *10/2016 – 6/2022*  
**Research Software Engineer** (Machine Learning Research) *3/2021 – 6/2022*  
**Research Software Engineer** (Brain Research) *5/2019 – 11/2021*  
**Tech Lead** (Kick Start Practice Rounds) *10/2020 – 11/2021*  
**Software Engineer** (TensorFlow Runtime) *9/2020 – 2/2021*  
**Software Engineer** (Ads) *10/2016 – 5/2019*  
**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*

## Teaching Experience

Rated 5.0/5 at Columbia University based on 28 reviews <https://www.ratemyprofessors.com>.

### 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; 48 students + 74 observers)

Competitive Programming (COMS 4995-8; 53 students + 49 observers)

**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 [\[link\]](#)

**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)

### 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

## Coaching Experience

### Judge

International Collegiate Programming Contest (ICPC) Greater New York Regional 2/26/2023  
ICPC North America Qualifier 10/2022 –  
ICPC Mid-Central Regional 10/2022 –

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

110 members (3 world finalists, 59 eligibles, and 48 ineligibles) and growing.  
Soon to be officially sponsored by multiple companies.  
Weekly Sunday ICPC Practice Contests from 12pm ET to 5pm ET. Fall 2022 –  
Weekly ICPC Practice Contests from 12pm ET to 5pm ET. Summer 2022 –  
2022 Columbia University Local Contest (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 is ranked 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 Greater New York Regionals. 3/6/2022  
13 Columbia teams represented in 2021 Greater New York ICPC Regionals. 3/6/2022

## Invited Talks

### Special Workshops on Technical Interviews [\[slide decks\]](#)

Stanford University  
Stanford Alumni Association (host: Michelle Badger) 2/22/2023? & 3/8/2023?  
Stanford Computer Forum (host: Trudy Gonzalez) 1/19/2023? & 1/26/2023?  
Stanford Computer Forum (host: Trudy Gonzalez) 10/5/2022 & 10/6/2022  
Haas School of Business, University of California – Berkeley (host: Park Sinchaisri) 11/21/2022  
University of Southern California (host: Cristina Fong) 11/18/2022 & 11/19/2022  
Harvard University (host: Office of Career Services) 10/14/2022  
University of California – San Diego (host: Jingbo Shang) 10/14/2022 & 10/21/2022  
Carnegie Mellon University – Silicon Valley  
CMU Career Services (host: Leigh Mason) 10/6/2022 & 11/11/2022  
CMU Career Services (host: Leigh Mason) 9/7/2021 & 10/5/2021  
CMU Career Services (host: Leigh Mason) 2/25/2020  
UNIST (host: Myeongjae Jeon) 9/28/2022 & 9/29/2022  
National University of Singapore (host: Steven Halim) 9/21/2022 & 9/22/2022  
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

## Research Mentoring Experience

### Columbia University

Fall 2022 –

Samanway Sadhu (SEAS CS MS '22 [Fall]; co-advised with Professor Suman Jana)  
Tobias Hanl (SEAS CS MS '23 [Fall]; co-advised with Professor ?)  
Ziwei Han (SEAS CS MS '22 [Fall]; co-advised with Professor ?)

### Harvard University

Summer 2022 –

Alessandro Barbiellini Amidei (Math AB '25 [Spring])  
John Michael Boesen (Applied Math+CS AB '25 [Spring])  
Iris Lang (Statistics+CS AB '25 [Spring])  
Will Hahn (AB '25 [Spring])  
Jarell Cheong Tze Wen (Math AB '25 [Spring])  
AnaMaria Perez (Math AB '24 [Spring])  
Mayesha Soshi (Applied Math AB '24 [Spring])  
Andrew Van Camp (Applied Math AB '23 [Spring])

**Industry  
Mentoring  
Experience**

**Two Sigma** (2022 NewTS Senior Mentor)  
**Software Engineer Intern Co-Host** (Google)  
**Columbia University**

*10/2022 –  
Summer 2018  
Spring 2022 –*

**Undergraduate Students**

Christopher Yoon (CC CS BA '24 [Spring]; Summer 2023 Internship at Virtu)  
Hanfang Luo (CC CS BA '24 [Spring]; Summer 2023 Internship at Amazon)  
Mauricio Gonzalez (CC CS BA '23 [Fall]; TBD)  
Eumin Hong (CC CS BA '23 [Spring]; TBD)  
Ethan Zachary Turok (SEAS CS BS '23 [Spring]; TBD)  
Gilead Turok (CC CS+Applied Math (double) BA '23 [Spring]; TBD)  
Anais Lawson (SEAS CS BS '23 [Spring]; TBD)  
Chiamaka Chukwuka (SEAS CS BS '23 [Spring]; TBD)  
Andrew Sirenko (SEAS CS BS '23 [Spring]; TBD)  
Venkat Ramamoorthi (GS CS BA '23 [Spring]; TBD)  
Benjamin Snyder (SEAS CS BS '22 [Spring]; Full-time at Google)  
Yuqi Zhang (SEAS CS BS '22 [Spring]; Full-time at TikTok)  
Olivia Zhang (SEAS CS BS '22 [Spring]; Full-time at Goldman Sachs)  
Andreas Cheng (GS CS BA '22 [Spring]; Full-time at IXL Learning)

**Graduate Students**

Yin Zhou (SEAS Applied Math PhD '25 [Spring]; TBD)  
Ian Dorian Macleod (SEAS CS BS '23 + MS '23 [Spring]; Full-time at Scale AI)  
Wenqing Zhong (SEAS CS BS '22 + MS '23 [Spring]; TBD)  
Suro Lee (SEAS CS MS '23 [Fall]; TBD)  
Jiaqing Chen (SEAS CS MS '22 [Fall]; TBD)  
Guoxin Yin (SEAS CS MS '22 [Fall]; TBD)  
Rong Bai (SEAS CS MS '22 [Fall]; TBD)  
Gaurav Sinha (SEAS CS MS '22 [Fall]; TBD)  
Ziwei Han (SEAS CS MS '22 [Fall]; TBD)  
Xiaoyu Liu (SEAS EE MS '22 [Fall]; TBD)  
Shihao Wang (SEAS CS MS '22 [Fall]; Full-time at Amazon)  
Xijiao Li (SEAS CS BS '21 + MS '22 [Spring]; Full-time at Google)  
Danrui Yu (SEAS CS MS '22 [Spring]; Full-time at Google)  
Sri Hari Thikkireddy (SEAS CS MS '22 [Spring]; Full-time at Google)  
Tim Kao (SEAS CS MS '22 [Spring]; Full-time at Google)  
Zhen Lei (SEAS CS MS '22 [Spring]; Full-time at Amazon)  
Zhihao Jiang (SEAS CS MS '22 [Spring]; Full-time at Amazon)

**Résumé Critiques**

120+ résumés

**45-Minute Mock Interviews**

30+ sessions

**Cornell-Tech**

*Fall 2022 –*

**Graduate Students**

Subin Yun (Information Systems MS '24 [Spring]; TBD)  
Pingyue (Pamela) Pan (Information Systems MS '24 [Spring]; TBD)  
Adrian-Petru Surani (CS MS '23 [Spring]; TBD)  
JaeEun Lee (CS MEng '23 [Spring]; TBD)

**Community Service**

Emma Nieh

Bolim Lee (University of London; CS BSc '25; TBD)

Soyeon Wang (San Jose State University CS BS '21; Full-time at Amazon)

*4/2019 –  
10/2022 –  
3/2022 –  
4/2019 – 12/2020*

## Community Service

<b>Presenter</b> (Two Sigma: Work in Progress)	10/20/2022
<b>Co-Instructor</b> (Two Sigma: Competitive Programming)	10/2022 –
<b>Program Committee</b> (ACM SIGCSE Technical Symposium 2023)	8/2022 –
<b>Discord Channel Owner</b>	3/2022 –
Problem Solving Warriors: 316 members and growing!	
Hedge Funds Warriors: 224 members and growing!	
ICPC Training Warriors: 186 members and growing!	
Cornell Tech Interview Prep Workshop: 100 members and growing!	
<b>Stanford University Outreach Volunteer Alumni Link (OVAL) Interviewer</b>	1/2022 –
Volunteered to conduct 20+ alumni interviews in NY, NJ, and MA chapters.	
<b>Tech Lead</b> (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.	
<b>Software Engineer Interviewer</b> (Google)	2017 – 2022
Volunteered to conduct 55+ interviews at Google.	
<b>Software Engineer Instructor</b> (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.	
<b>Competitive Programming Group Founder</b> (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.	
<b>Google Code Jam Monitor</b> (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.	

## Leadership Experience

<b>Technical Committee</b> (MIT Digital Learning Lab)	10/2022 –
<b>Co-lead w/ Rachel Krohn</b> (ICPC: New Coach Document Development)	10/2022 –
<b>Co-lead w/ Etienne Vouga</b> (ICPC: Curriculum Development)	7/2022 –
<b>East-Coast President</b> (Kwanjeong Scholarship)	Academic Year (AY) 2013
<b>Social Chair/Webmaster</b> (Stanford) Symphony Orchestra	AY 2010 & 2011
<b>Vice-President</b> (Stanford) Mathematics Organization	AY 2009
<b>Webmaster/Historian Director</b> (Stanford) Korean Student Association	AY 2009

## 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

<b>Optimization &amp; Network Game Theory</b> (Asuman Ozdaglar, MIT)	<i>Fall 2013 – Fall 2016</i>
<b>Markov Chain &amp; Mixing Time Analysis</b> (Persi Diaconis, Stanford)	<i>Winter 2010 – Fall 2012</i>
<b>Stanford Computer Vision Lab</b> (Fei-Fei Li, Stanford)	<i>Fall 2009 – Fall 2011</i>
<b>Analytic Number Theory</b> (Kannan Soundararajan, Stanford)	<i>Fall 2008 – Summer 2009</i>

## 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<sup>nd</sup> (Gold Award) out of 9.3K+ in 2007.