Yongwhan Lim

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|----------------------------|---|---|--|--|
| Citizenship Status | Permanent Resident of the United States of America. | | | |
| | Citizen of the Republic of Korea. | | | |
| Education | Massachusetts Instit | tute 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 B.S. Honors Computer Advisors: Fei-Fei Li | Science (AI Track) and Mathematics | | |
| Languages | C++ w/ the Standard Template Library. | | | |
| | Comfortable with Java, Go, Python, SQL, Angular Dart, MATLAB, and R. | | | |
| | Fluent in English and l | Native in Korean. | | |
| Professional Experience | Two Sigma Investments Senior Quantitative Software Engineer (Derivative Engineering) | | 7/2022 — | |
| | Research Software Tech Lead (Kick St | Engineer (Machine Learning Research) Engineer (Brain Research) Eart Practice Rounds) C (TensorFlow Runtime) C (Ads) | 10/2016 - 6/2022 $3/2021 - 6/2022$ $5/2019 - 11/2021$ $10/2020 - 11/2021$ $9/2020 - 2/2021$ $10/2016 - 5/2019$ | |

 ${\bf Software\ Development\ Engineer\ Intern\ (Microsoft)}$

Research Assistant (Stanford) Computer Vision Lab

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

 $Summer\ 2012$

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)

Technical Interview Preparation

1/2023 - 2/2023

Fall 2022

Associate in Computer Science (Columbia)

Technical Interview Preparation in C++ (COMS 4995-7; 48 students + 73 observers)

Competitive Programming (COMS 4995-8; 53 students + 48 observers)

Visiting Instructor (Cornell-Tech)

Special Workshop Series in Technical Interview Preparation (148 students + 1 observer)

Lecturer (MIT)

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)

Guest Speaker (CMU Silicon Valley) Interview Preparation Workshop

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)

Guest Speaker (CMU Silicon Valley) Interview Preparation Workshop

Fall 2020

Guest Lecturer (Harvard) Advanced Practical Data Science (AC 295)

Guest Lecturer (UC Davis) Software Engineer Early Career Planning (ECS 198)

Guest Speaker (CMU Silicon Valley) Strategies for Software Industry Career (49-794)

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

| Coa | aching |
|-------------------------------------|----------|
| $\mathbf{E}\mathbf{x}_{\mathbf{I}}$ | perience |

Judge

| ICPC North America Qualifier | 10/2022 - |
|---|----------------|
| ICPC Mid-Central Regional | 10/2022 $-$ |
| Head Coach Columbia ICPC [link] | 2/2022 - |
| 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. See | ımmer 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 (NAPO | C). $3/6/2022$ |
| 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 |

International Collegiate Programming Contest (ICPC) Greater New York Regional

Invited Talks

Special Two-Day Workshop: "An insider's guide on how to excel in technical interviews"

| Harvard University (host: Office of Career Services) | 10/14/2022 |
|---|-------------------------|
| University of California at San Diego (host: Jingbo Shang) | 10/14/2022 & 10/21/2022 |
| Carnegie Mellon University — Silicon Valley (host: Leigh Mason) | 10/6/2022 & 11/11/2022 |
| Stanford University (host: Stanford Computer Forum) | 10/5/2022 & 10/6/2022 |
| 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) [link] | 8/17/2022 & 8/18/2022 |

Michigan Math and Science Scholars: "CS is a dream come true!"

7/7/2022

2/26/2023

Emerging Scholars Program Columbia Research Symposium: "CS is a dream come true!" 4/22/2022

Research Mentoring Experience

Columbia University

Spring 2022 -

Undergraduate Students

Yenchi Kuo (GS '25 [Spring]; co-advised with Professor Zhou Yu; TBD)

Graduate Students

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

Harvard University

Summer~2022~-

Undergraduate Students

Alessandro Amidei ('25; TBD) John Michael Boesen ('25; TBD)

Iris Lang ('25; TBD)

Industry Mentoring Experience Two Sigma (2022 NewTS Senior Mentor)

10/2022 -

Software Engineer Intern Co-Host (Google)

Summer 2018 Spring 2022 –

Columbia University

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)

Wenging 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

4/2019 -

Emma Nieh

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 |

Presenter (Two Sigma: Work in Progress)

Co-Instructor (Two Sigma: Competitive Programming)

10/20/22
Program Committee (ACM SIGCSE Technical Symposium 2023)

8/2022
Discord Channel Owner

Problem Solving Warriors: 313 members and growing!

Hedge Funds Warriors: 222 members and growing!

ICPC Training Warriors: 184 members and growing!

Cornell Tech Interview Prep Workshop: 100 members and growing!

Stanford University Outreach Volunteer Alumni Link (OVAL) Interviewer

1/2022 -

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.

Volunteered to conduct 20+ alumni interviews in NY, NJ, and MA chapters.

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.

Webmaster/Historian Director (Stanford) Korean Student Association

Discussed problem solving strategies: data structure, graph, math, string, and geometry.

Competitive Programming Group Founder (Google)

11/2017 - 1/2021

Academic Year 2009

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.

Leadership Experience

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

Optimization & Network Game Theory (Asuman Ozdaglar, MIT)

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

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.