Yongwhan Lim

Contact Information

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Citations: 564+
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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	**Top 3** out of 927 instructors at Columbia University based on 30 reviews (rating 5.0/5) from https://www.ratemyprofessors.com.

Fall 2022

Associate in Computer Science (Columbia)
Technical Interview Preparation in C++ (COMS 4995-7; 54 students + 56 observers)
Competitive Programming (COMS 4995-8; 83 students + 28 observers)
Visiting Instructor (Cornell-Tech)
Special Workshop Series in Technical Interview Preparation (147 students + 1 observer)

Summer 2022

Lecturer (MIT)
Develop MITx MicroMasters working with Professors Madry, Parrilo, and 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

Coaching Experience	**Judge**	
	International Collegiate Programming Contest (ICPC) Greater New York Regional	*3/2023*
	ICPC North America Qualifier	*9/2022 −*
	ICPC Mid-Central Regional	*6/2022 −*
	Head Coach Columbia ICPC [link]	*2/2022 −*
	2022 Columbia University Local Contest (CULC) is organized.	*9/25/2022*
	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*
	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 qualified to 2022 ICPC World Finals, to be held in 11/2023.	*5/30/2022*

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*
	Planning with Princeton, UC Berkeley, UM Ann Arbor, NYU, and USC.	
	Michigan Math and Science Scholars: "CS is a dream come true!"	*7/7/2022*
	Emerging Scholars Program Columbia Research Symposium: "CS is a dream come true!"	*4/22/2022*

Mentoring Experience

Columbia University *Spring 2022 −*
  Undergraduate Students
    Yenchi Kuo (GS; co-advised with Zhou Yu; TBD)
    Benjamin Snyder (SEAS CS BS '22; Full-time at Google)
    Xijiao Li (SEAS CS BS '21 + MS '22; Full-time at Google)
    Chiamaka Chukwuka (SEAS CS BS '23; Summer 2022 Internship at Google)
    Ian Dorian Macleod (SEAS CS BS '23; return offer from Summer 2022 Internship at Amazon)
    Andrew Sirenko (SEAS CS BS '23; return offer from Summer 2022 Internship at Amazon)
    Yuqi Zhang (SEAS CS BS '22; Full-time at TikTok)
    Je Seung You (GS CS BA '21 + SEAS MS '23; Summer 2022 Internship at BAXUS)
    Wenqing Zhong (SEAS CS BS '22 + MS '23; Summer 2022 Internship at Tapad)
    Olivia Zhang (SEAS CS BS '22; Full-time at Goldman Sachs)
    Andreas Cheng (GS CS BA '22; Full-time at IXL Learning)
    Anais Lawson (SEAS CS BS '23; Summer 2022 Internship at Microsoft)
    Chloe Ho (Barnard CS BA '24; TBD)

  Graduate Students
    Suro Lee (SEAS CS MS '23; TBD)
    Danrui Yu (SEAS CS MS '22; Full-time at Google)
    Sri Hari Thikkireddy (SEAS CS MS '22; Full-time at Google)
    Tim Kao (SEAS CS MS '22; Full-time at Google)
    Zhen Lei (SEAS CS MS '22; Full-time at Amazon)
    Zhihao Jiang (SEAS CS MS '22; Full-time at Amazon)
    Jinsen Wu (SEAS CS MS '22; Summer 2022 Internship at Apple)
    Ziwei Han (SEAS CS MS '22; Summer 2022 Internship at Spectral MD)

  Résumé Critiques
    50+ résumés

  45-Minute Mock Interviews
    25+ sessions

Harvard University *Summer 2022 −*
  Undergraduate Students
    Andrew Van Camp (Applied Math '23; TBD)
    Alessandro Amidei (Math '25; TBD)
    Jarell Wen (Math '25; TBD)
    Will Hahn ('25; TBD)
    Iris Lang ('25; TBD)

Cornell-Tech *Fall 2022 −*
  Graduate Students
    Adrian-Petru Surani (CS '23; TBD)
    Subin Yun (Information Systems '24; TBD)
    Pingyue (Pamela) Pan (Information Systems '24; TBD)

Community Service *4/2019 −*
  Bolim Lee (Goldsmiths, University of London CS BSc) *3/2022 −*
  Soyeon Wang (San Jose State University CS BS '21; Full-time at Amazon) *4/2019 − 12/2020*
  Ji Maan Kim (Cal Poly EE BS '18; Full-time at QuantumScape) *4/2019 − 12/2020*

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.

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)	*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

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).

LeetCode − $1,835^{th}$ out of 310,340 users.
CodeForces − $2,239^{th}$ out of 820,258 active users.

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.

Leadership Experience

East-Coast President (Kwanjeong Scholarship)	*Academic Year 2013*

 Organized the annual meeting for the recipients of scholarship in the east coast of USA.

Social Chair/Webmaster (Stanford) Symphony Orchestra	*Academic Year 2010 & 2011*
Vice-President (Stanford) Mathematics Organization.	*Academic Year 2009*
Webmaster/Historian Director (Stanford) Korean Student Association.	*Academic Year 2009*

Community Service

Program Committee (ACM SIGCSE Technical Symposium 2023)   *8/2022 −*

USA Computing Olympiad (USACO)   *6/2022 −*
Problem setter/tester; Analysis writer; Community outreach;

Discord Channel Owner   *3/2022 −*
Problem Solving Warriors: 299 members and growing!
Hedge Funds Warriors: 197 members and growing!
ICPC Training Warriors: 161 members and growing!
Cornell Tech Interview Prep Workshop: 96 members and growing!
Hell's Kitchen Home Games: 23 members and growing!

Stanford University Outreach Volunteer Alumni Link Interviewer   *1/2022 −*
Volunteered to conduct 20+ alumni interviews in NY, NJ, and MA chapters.

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 Intern Co-Host (Google)   *Summer 2018*
Met weekly with the intern to give guidance on the project.

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.