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. (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

Expert in **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

Research Software Engineer Google Machine Learning Research *3/2021 – Current*
Research Software Engineer Google Brain Research *10/2020 – 11/2021*
Tech Lead Google Kick Start Practice Rounds *10/2020 – 11/2021*
Software Engineer Google TensorFlow Runtime *9/2020 – 2/2021*
Software Engineer Google Research *5/2019 – 9/2020*
Software Engineer Google Ads *10/2016 – 5/2019*

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

Software Development Engineer Intern Microsoft Windows Live *Summer 2012*

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

Teaching Experience

Fall 2022

Associate in CS (Columbia) Technical Interview Preparation in C++ (COMS 4995)

Spring 2022

Associate in CS (Columbia) Technical Interview Preparation in C++ (COMS 4995)

Midterm Course Evaluation Overall Instructor Quality: 4.93/5

"Professor Lim is one of the best teachers I have had in Columbia. [...]"

"This course is amazing! Super helpful to prepare for interviews [...]"

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

Coach Columbia ICPC teams *2/2022 – Current*

3/2022: Columbia-fortcoders won 2021 Greater New York ICPC North America Regionals.
3/2022: 13 Columbia teams represented in 2021 Greater New York ICPC Regionals.
5/2022: Columbia-fortcoders is invited to 2022 North America Championship (NAC).
5/2022: Columbia-fortcoders is invited to 2022 North America Programming Camp (NAPC).

Career Mentoring Experience

Columbia University Technical Interview Preparation in C++ (COMS 4995)

Undergraduate Students

Spring 2022 – Current: Olivia Zhang (SEAS CS BS '22)
Spring 2022 – Current: Anais Lawson (SEAS CS BS '23)
Spring 2022 – Current: Yealin Park (SEAS CS BS '23)

Graduate Students

Spring 2022 – Current: Jinsen Wu (SEAS CS MS '22)
Spring 2022 – Current: Zhihao Jiang (SEAS CS MS '22)
Spring 2022 – Current: Zhen Lei (SEAS CS MS '22)
Spring 2022 – Current: Ziwei Han (SEAS CS MS '22)

Resume Critique

Spring 2022: 25+ resumes

Community Service

03/2022 – Current: Bolim Lee
04/2019 – 12/2020: Soyeon Wang (San Jose State University; CS BS '21)
04/2019 – 12/2020: Ji Maan Kim (Cal Poly; EE BS '18)

Talk "CS is a dream come true!" at Columbia Research Symposium *4/22/2022*

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 – 480^{th} out of 125.0K+ users on September 2020.
CodeChef – 1008^{th} out of 263.5K+ users on September 2020.
CodeForces – 2607^{th} out of 101.8K+ active users on September 2020.
AtCoder – 2671^{th} out of 61.5K+ active users on September 2020.

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.

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

Discord Channel Owner *03/2022 – Current*
Problem Solving Warriors: 39 members and growing!
ICPC Training Warriors: 13 members and growing!
Hedge Funds Warriors: 22 members and growing!

Stanford University Outreach Volunteer Alumni Link Interviewer *01/2022 – Current*

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 – Current*
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 – Current*
Google Code Jam is an annual programming contest to recruit software engineers at Google.
Monitored to answer questions contestants asked during the live contest.