Yongwhan Lim

Teaching Interests	`Interview Preparation`: Technical Interview; Mock Interview;
	`Computer Science Fundamentals`: Algorithms; Data Structures, C++;
	`Advanced Topics in Computer Science`: Machine Learning; Computer Vision;
	`Applied Math`: Optimization; Network Game Theory;

Contact Information

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https://scholar.google.com/citations?user=yongwhan
Citations: 482+
yongwoods@gmail.com

Citizenship Status

Permanent Resident of the United States of America.

Citizen of the Republic of Korea.

Education

Massachusetts Institute of Technology	*September 2013 − January 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	*September 2007 − January 2013*

M.S. Computer Science (AI Track)
B.S. Honors Computer Science (AI Track) and Mathematics
    Advisors: Fei-Fei Li and Persi Diaconis

Languages

Fluent with **C++** w/ the Standard Template Library.

Comfortable with Java, Go, Python, SQL, Angular Dart, MATLAB, and R.

Fluent in English and Native in Korean.

Work Experience

Research Software Engineer (Google) Brain Research (50%)	*October 2020 − Current*
Software Engineer (Google) TensorFlow Runtime (50%)	*September 2020 − Current*
Software Engineer (Google) Research	*May 2019 − September 2020*

    Built a testing framework on both software and hardware specialized in ultrafast inference.

Software Engineer (Google) Ads	*October 2016 − May 2019*

    Built an internal log analyzer tool to maximize Google engineers' productivity.

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

Software Development Engineer Intern, Microsoft Windows Live	*Summer 2012*

    Developed a novel machine learning algorithm to detect compromised users.

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

    Created a state-of-the-art image feature called object bank.
    Created a smart album application using the object bank feature.

Teaching Experience

Guest Lecturer (Harvard) Advanced Practical Data Science (AC 295)	*Fall 2020*
Lecturer (UC Davis) Software Engineer Early Career Planning (ECS 198)	*Fall 2020*
Teaching Assistant (Stanford) Introduction to Computer Vision (CS 231A)	*Fall 2011*
Grader & **Tutor** (Stanford) Department of Mathematics	*Fall 2008 − Fall 2013*

    Served as a tutor for introductory courses.
    Served as a grader for multiple courses.

Coursera Specializations	**Deep Learning** (Andrew Ng @DeepLearning.ai)
	Machine Learning (Emily Fox @UW Seattle)
	Machine Learning with TensorFlow on Google Cloud Platform (Google Cloud)
	Advanced Machine Learning with TensorFlow on Google Cloud Platform (Google Cloud)

Community Services

Lead Software Engineer (Google Kick Start Practice Rounds) *October 2020 − Current*
　　Selected problems; set up platforms; mentored engineering volunteers; appeared on videos.

Software Engineer Interviewer (Google) *2017 − Current*
　　Volunteered to conduct 40+ 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) *April 2019 − Current*
　　Taught `C++`, `Algorithms`, and `CS 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) *November 2017 − Current*
　　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 Google software engineers.
　　Monitored to answer questions contestants asked during the live contest.

Scholarship and Award

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 − 480th out of 125.0K+ users as of September 2020.
CodeChef − 1008th out of 263.5K+ users as of September 2020.
CodeForces − 2607th out of 101.8K+ active users as of September 2020.
AtCoder − 2671th out of 61.5K+ active users as of 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 2nd (Gold Award) out of 9.3K+ in 2007.

Leadership

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*

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*

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.