

Mina Lee

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<https://minalee.info>

INTERESTS

Program synthesis, neural code search, and computer-aided education

- Using machine learning and natural language processing techniques for programs
- Improving and naturalizing programming languages over time through interaction

EDUCATION

Stanford University

Ph.D. Student in Computer Science (Advisor: Professor Percy Liang)

Stanford, CA, USA

Sept. 2017 - Present

Korea University

Undergraduate Student

Seoul, Republic of Korea

Mar. 2012 - Aug. 2016

- Bachelor of Science in Computer Science and Engineering
- Bachelor of Engineering in Software Technology and Enterprise Program

University of British Columbia

Exchange Student

Vancouver, BC, Canada

Sept. 2014 - Apr. 2015

PUBLICATIONS

Mina Lee, Sunbeom So, and Hakjoo Oh. 2016. Synthesizing Regular Expressions from Examples for Introductory Automata Assignments. In *Proceedings of the 2016 ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences (GPCE)*. **Best Paper Award**

RESEARCH EXPERIENCE

Programming Research Laboratory, Korea University

Research Intern (Advisor: Professor Hakjoo Oh)

Seoul, Republic of Korea

Nov. 2015 - Aug. 2016

- Participated in projects on program synthesis, static analysis, and machine learning
 - Program Synthesis: Synthesized regular expressions from examples
 - Static Analysis: Reduced false alarms by selectively applying soundness to programs
 - Machine Learning: Learned feature programs from results of static analysis
- Gave poster presentation on synthesizing regular expressions at SPLASH 2016

TEACHING

Basics of Computer Systems, University of British Columbia

Teaching Assistant

Vancouver, BC, Canada

Jan. 2015 - Apr. 2015

- CPSC 261 Basics of Computer Systems in Department of Computer Science
- Covered basic C programming, assembly language (X86-64), pipelined CPU, caching, memory hierarchy, virtualization, processes and threads, file systems, and networking
- Ran laboratories for over 50 students twice a week, had office hours every week, answered questions in person and online, marked assignments, and proctored exams

INTERNSHIPS

Facebook

Software Engineer Intern

Menlo Park, CA, USA

Jun. 2018 - Sept. 2018

- Built code search engine which takes both code snippets and natural language queries as input and finds most relevant PyTorch functions and parameters
- Used recurrent neural networks with bimodal embedding for code and natural language
- Used docstrings, Stack Overflow posts, and GitHub repositories to construct datasets