

HEBI LI

PhD Candidate in Programming Languages & Analysis
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EDUCATION

Iowa State University *Aug. 2014 - Jun. 2019 (expected)*
PhD Candidate in Department of Computer Science

University of Science and Technology of China *Aug. 2010 - Jun. 2014*
B.E. in Electrical Engineering

SKILLS

Programming Languages

- **Lisp (Scheme):** Proficient
- **C/C++:** Proficient
- **Python:** Good
- **Haskell:** OK

Software & System

- **Compiler Architecture:** Proficient
- **Programming Language:** Proficient
- **Program Analysis:** Proficient
- **LLVM/Clang:** Proficient
- **Linux:** Proficient, 8 years experience

RESEARCH PROJECT

Partial Program Dynamic Analysis *Summer 2015 - Present*

I built a compiler framework, Helium^{1 2}. It tests arbitrary, non-continuous segment of code. The front-end is built on top of Clang, and back-end algorithm is implemented in C++ and Racket. The code has 866 commits, 1.7k Lisp (Racket), 25k C/C++.

TEACHING

Principles of Programming Languages *Fall 2016, Fall 2017*

Introduction to Database System *Fall 2014, Spring 2015*

AWARDS

Teaching Excellent Award *May 2017*

PUBLICATIONS

Hebi Li, Wei Le, "Enabling Dynamic Analysis for Partial Programs Via Syntactic Patching", in submission.

Hebi Li, Wei Le, "Demand-Driven Dynamic Analysis for Automatic Benchmark Building", in submission.

¹<https://github.com/lihebi/helium>

²<https://github.com/lihebi/helium2>