Hyeyoung Shin

Resumé

Contact Information

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Interests

Programming languages, logic, type theory and functional programming.

Education

Northeastern University. *Ph.D. Candidate in Computer Science.* 2017–present
Advisor: Professor Amal Ahmed

University of Hawai'i, Mānoa. *Graded courses and exams in mathematics.* 2016–2017
Graduate courses: logic, recursion theory; undergraduate course: topology.

Iowa State University. *Graded courses and exams in mathe and computer science.* 2014–2016
Graduate: PL (with Coq), computability; undergrad: abstract algebra, intro to proofs, calculus

Kyeongpook National University. *Bachelor of Arts, English Language & Literature.* 2004–2009

Additional Training

The Racket School of Semantics and Languages — University of Utah
Topics: semantics and language design — 10 July–14 July 2017

Oregon Programming Languages Summer School — University of Oregon
Topics: dependent, gradual, and substructural type systems — 26 June–8 July 2017

Midlands Graduate School in Foundations of Computing Science — University of Birmingham
Topics: type theory, denotational semantics, category theory — 11–15 April 2016

Oregon Programming Languages Summer School — University of Oregon
Topics: type theory, logic, semantics, verification — 20 June–2 July 2016

Functional Programming Principles in Scala — École Polytechnique Fédérale de Lausanne
Topics: 6-week online course with verified certificate — Grade Achieved: 94%

Professional Experience

Iowa State University. *TA for COMS 228: Introduction to Data Structures* Fall 2015

Gyeongsan Girls' High School. *English Teacher* 2009–2013

Programming Experience

Coq. Graduate course in Programming Languages (COMS 541).
Textbook: *Software Foundations*, by Pierce, et al.

Java. Courses and exams in oop and data structures (noted above).
Served as TA for the undergraduate data structures course taught using Java.

Racket. Implemented an interpreter generator parametrized by representations of environment and closure. (Textbook: *Essentials of Programming Languages*, by Friedman and Wand)

Scala. 6-week online course taught by Martin Odersky. Earned certificate (noted above)

SML. Implemented a compiler that compiles Tiger language to MIPS assembly.
(Textbook: *Modern Compiler Implementation in ML*, by Appel)

Awards

Northeastern University Ph.D. Graduate Fellowship — Boston, 2017–2018

Scholarships to attend Oregon Programming Languages Summer Schools — Eugene, 2016, 2017

Scholarship to attend POPL Programming Languages Mentoring Workshop — St. Petersburg, 2016

Scholarship to attend ICFP Programming Languages Mentoring Workshop — Vancouver, 2015

Research

A fully abstract compilation from a total to a partial language. H. Shin (submitted to POPL'19SRC)

Leadership

Organizer of *PL Jr. Study & Research Group*, Northeastern University 2018-2019