

CONTACT INFORMATION	Naplavni 1772/2, Apt 53 Prague 2, 120 00 Czech Republic	tel: +420 603-535-554 url: www.hyeyoungshin.org email: hyeyoungshinw@gmail.com
INTERESTS	Programming languages, type theory, and functional programming	
EDUCATION	<p>Northeastern University. MS in Computer Science 2017–2019 Advisor: Professor Amal Ahmed</p> <p>University of Hawai‘i, Mānoa. Course work in mathematics and computer science 2016–2017 Graduate: logic, recursion theory; undergraduate: concurrent programming, topology</p> <p>Iowa State University. Course work in mathematics and computer science 2014–2016 Graduate: Programming languages, formal methods, computability; Undergraduate: OOP, data structures, algorithms, abstract algebra, intro to proofs, calculus</p> <p>Kyeongpook National University. Bachelor of Arts, English Language and Literature 2004–2009</p>	
ADDITIONAL TRAINING	<p>Midlands Graduate School in Foundations of Computing Science University of Birmingham Topics: lambda calculus, category theory, univalent type theory in Agda April 2019</p> <p>The Racket School of Semantics and Languages University of Utah Topics: semantics and language design July 2017</p> <p>Oregon Programming Languages Summer School University of Oregon Topics: dependent, gradual, and substructural type systems June 2017</p> <p>Midlands Graduate School in Foundations of Computing Science University of Birmingham Topics: type theory, denotational semantics, category theory April 2016</p> <p>Oregon Programming Languages Summer School University of Oregon Topics: type theory, logic, semantics, verification June 2016</p> <p>Functional Programming Principles in Scala École Polytechnique Fédérale de Lausanne Topics: 6-week online course with verified certificate Grade Achieved: 94%</p>	
PROFESSIONAL EXPERIENCE	<p>Czech Technical University. Researcher on the Signatr Project 2019–2021 Supervisor: Professor Jan Vitek and Christoph Kirsch</p> <p>Czech Technical University. TA for OOP design course by Filip Krikava Fall 2020</p> <p>Iowa State University. TA for data Structures course by Yan-Bin Jia Fall 2015</p> <p>Gyeongsan Girls’ High School. English Teacher 2009–2013</p>	
RESEARCH	<p><i>The Signatr Project:</i> developing a system for inferring function types in R programs with Jan Vitek, Christoph Kirsch, Filip Krikava, and Yuan Cao</p> <p><i>A fully abstract compilation from a total to a partial language.</i> H. Shin (submitted to POPL)</p>	
PROGRAMMING EXPERIENCE	<p>R. Build tracer and database for function arguments and return values for a research project</p> <p>Racket. Implement interpreter generator parametrized by representations of env and closure</p> <p>SML. Implement compiler that compiles Tiger language to MIPS assembly.</p> <p>Other. Scala, Java, Agda, Git, \LaTeX</p>	
AWARDS	<p>Northeastern University Ph.D. Graduate Fellowship Boston, 2017–2018</p> <p>Scholarships to attend Oregon Programming Languages Summer Schools Eugene, 2016, 2017</p> <p>Scholarship to attend POPL Programming Languages Mentoring Workshop St. Petersburg, 2016</p> <p>Scholarship to attend ICFP Programming Languages Mentoring Workshop Vancouver, 2015</p>	
LEADERSHIP	Organizer of <i>PL Jr. Study & Research Group</i> , Northeastern University 2018–2019	