

Stephen T. Chang

Appointments

- 2015-2019 *Associate Research Scientist*, CCIS, Northeastern University.
2015 *Lecturer*, CCIS, Northeastern University.
2014 *Programmer*, CCIS, Northeastern University.
2010-2014 *Research Assistant*, CCIS, Northeastern University.
2008-2010 *Teaching Assistant*, CCIS, Northeastern University.
2008 *Teaching Fellow*, SEAS, Harvard University.

Education

- 2008-2014 **Ph.D.** in Computer Science, Northeastern University
Advisor: Matthias Felleisen
Dissertation: *On the Relationship Between Laziness and Strictness*
2006-2008 **M.E.** in Computer Science, Harvard University
Advisor: Greg Morrisett
Dissertation: *Debugging Lazy Programs*
1997-2001 **B.S.E. cum laude** in Electrical Engineering, Princeton University

Publications

- 2020 **(to appear) Dependent Type Systems as Macros.** Stephen Chang, Michael Bal-lantyne, Milo Turner, William J. Bowman. In *Proceedings of the 47th Symposium on Principles of Programming Languages (POPL)*.
2018 **Symbolic Types for Lenient Symbolic Execution.** Stephen Chang, Alex Knauth, and Emina Torlak. In *Proceedings of the 45th Symposium on Principles of Programming Languages (POPL)*.
2017 **Type Systems as Macros.** Stephen Chang, Alex Knauth, and Ben Greenman. In *Proceedings of the 44th Symposium on Principles of Programming Languages (POPL)*.
2014 **Profiling For Laziness.** Stephen Chang and Matthias Felleisen. In *Proceedings of the 41st Symposium on Principles of Programming Languages (POPL)*.
2013 **Laziness By Need.** Stephen Chang. In *Proceedings of the 22nd European Symposium on Programming (ESOP)*.
2012 **The Call-by-need Lambda Calculus, Revisited.** Stephen Chang and Matthias Felleisen. In *Proceedings of the 21st European Symposium on Programming (ESOP)*.
2011 **From Stack Traces to Lazy Rewriting Sequences.** Stephen Chang, Eli Barzilay, John Clements, and Matthias Felleisen. In *Revised Selected Papers of the 23rd International Symposium on Implementation and Application of Functional Languages (IFL)*.
2010 **Evaluating Call By Need on the Control Stack.** Stephen Chang, David Van Horn and Matthias Felleisen. In *Revised Selected Papers of the 11th International Symposium on Trends in Functional Programming (TFP)*.

Professional Activities

2019	<i>External Program Committee</i>	PLDI
2016	<i>Program Committee</i>	TFPIE
2015	<i>Program Committee</i>	OOPSLA Artifact Evaluation
2014	<i>Program Committee</i>	Scheme and Functional Programming Workshop
2012–	<i>Subreviewer</i>	ESOP, FLOPS, FoSSaCS, ICFP, JFP, OOPSLA, PLDI, PPDP, TLCA

Awards

2010	<i>Outstanding Teaching Award</i>	College of Computer and Information Sciences (CCIS), Northeastern University
2010	<i>Best Student Paper</i>	11th International Symposium on Trends in Functional Programming (TFP)
2009	<i>Upsilon Pi Epsilon</i>	International Honor Society for the Computing and Information Disciplines

Teaching

Spring 2019	<i>Instructor</i>	Hack Your Own Language, Northeastern University
Summer 2018	<i>Instructor</i>	Building Typed Languages, Racket Summer School
Spring 2015	<i>Lead Instructor</i>	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Fall 2014	<i>Instructor</i>	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Spring 2010	<i>Head Teaching Assistant</i>	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Fall 2009	<i>Teaching Assistant</i>	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Spring 2009	<i>Teaching Assistant</i>	Fundamentals of Computer Science II: How to Design Classes (Freshmen), Northeastern University
Fall 2008	<i>Teaching Assistant</i>	Fundamentals of Computer Science I: How to Design Programs (Freshmen), Northeastern University
Spring 2008	<i>Teaching Fellow</i>	CS51: Introduction to Computer Science II, Harvard University

Additional Work Experience

2008 summer	<i>Software Engineering Intern</i> , Liquid Machines, Inc., Waltham, MA.
2001-2006	<i>Software Engineer</i> , Teradyne, Inc., Boston, MA.