Department of Computer Science

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Stephen T. Chang

Appointments

2020-	*Assistant Professor*, Department of Computer Science, UMass Boston.
2015-2020	*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	**Dependent Type Systems as Macros**. Stephen Chang, Michael Ballantyne, 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

2020	*Program Committee*	META
2020	*Program Committee*	ICFP SRC
2019	*External Program Committee*	PLDI
2016	*Program Committee*	TFPIE
2015	*Program Committee*	OOPSLA Artifact Evaluation
2014	*Program Committee*	Scheme and Functional Programming Workshop
2012–	*Subreviewer*	ESOP, FLOPS, FoSSaCS, ICFP, JFP, OOPSLA, PLDI, POPL, PPDP, TLCA

Awards

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

Teaching

Fall 2020	*Instructor*	Introduction to the Theory of Computation, UMass Boston
Spring 2019	*Instructor*	Hack Your Own Language, Northeastern University
Summer 2018	*Instructor*	Building Typed Languages, Racket Summer School
Spring 2015	*Lead Instructor*	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Fall 2014	*Instructor*	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Spring 2010	*Head Teaching Assistant*	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Fall 2009	*Teaching Assistant*	Program Design Paradigms: How to Design Programs and Classes (Masters), Northeastern University
Spring 2009	*Teaching Assistant*	Fundamentals of Computer Science II: How to Design Classes (Freshmen), Northeastern University
Fall 2008	*Teaching Assistant*	Fundamentals of Computer Science I: How to Design Programs (Freshmen), Northeastern University
Spring 2008	*Teaching Fellow*	CS51: Introduction to Computer Science II, Harvard University

Additional Work Experience

2008 summer	*Software Engineering Intern*, Liquid Machines, Inc., Waltham, MA.
2001-2006	*Software Engineer*, Teradyne, Inc., Boston, MA.