

T. Stephen Strickland

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Research Interests

My research interests cover all areas of programming language design and implementation, in particular software contracts, type systems, and module systems.

Professional Experience

2014- Postdoctoral Researcher, Brown University, Providence, RI
2012-2014 Research Associate, University of Maryland, College Park, MD
2009-2012 Research Assistant, Northeastern University, Boston, MA
2007-2010 Teaching Assistant, Northeastern University, Boston, MA
2007 Researcher, Diagis LLC, Atlanta, GA
2005-2007 Software Engineer, Reflex Security, Inc., Atlanta, GA
2004-2005 Teaching Assistant, Northeastern University, Boston, MA
2003-2004 Research Assistant, Georgia Institute of Technology, Atlanta, GA
2000-2003 Teaching Assistant, Georgia Institute of Technology, Atlanta, GA

Education

2012 Ph.D. in Computer Science, Northeastern University
Thesis title: *Scaling Contracts to Realistic Languages*
Advisor: Matthias Felleisen
2004 MS in Computer Science, Georgia Institute of Technology
Project advisor: Olin Shivers
2002 BS in Computer Science with Highest Honors, Georgia Institute of Technology

Publications

Journal articles

2013 Contracts for First-Class Classes, with Christos Dimoulas, Asumu Takikawa and Matthias Felleisen, *Trans. Prog. Lang. and Sys.*, Vol 35, Num 3.

Conferences

- 2014 Contracts for Domain-Specific Languages in Ruby. with Brianna M. Ren and Jeffrey S. Foster, *2014 Dynamic Languages Symposium (DLS)*.
- 2013 Constraining Delimited Control with Contracts., with Asumu Takikawa and Sam Tobin-Hochstadt, *22nd European Symposium on Programming (ESOP)*.
- 2013 The Ruby Type Checker, with Brianna M. Ren, John Toman, and Jeffrey S. Foster, *Symposium on Applied Computing (SAC) 2013*.
- 2012 Gradual Typing for First-Class Classes, with Asumu Takikawa, Christos Dimoulas, Sam Tobin-Hochstadt and Matthias Felleisen, *Object-Oriented Programming, Languages, Systems, and Applications (OOPLSA) 2012*.
- 2012 Chaperones and Impersonators: Run-time Support for Reasonable Interposition, with Sam Tobin-Hochstadt, Robert Bruce Findler and Matthew Flatt, *Object-Oriented Programming, Languages, Systems, and Applications (OOPLSA) 2012*.
- 2010 Contracts for First-Class Classes, with Matthias Felleisen, *2010 Dynamic Languages Symposium (DLS)*.
- 2009 Contracts for First-Class Modules, with Matthias Felleisen, *2009 Dynamic Languages Symposium (DLS)*.
- 2009 Nested and Dynamic Contract Boundaries, with Matthias Felleisen, *21st Symposium on Implementation and Application of Functional Languages (IFL)*.
- 2009 Practical Variable-Arity Polymorphism, with Sam Tobin-Hochstadt and Matthias Felleisen, *18th European Symposium on Programming (ESOP)*.

Teaching

- 2015 Instructor, Brown University, Programming Language Semantics
- 2013 Instructor, University of Maryland, Program Analysis and Understanding
- 2011 Instructor, Northeastern University, Fundamentals of Computer Science 1
- 2004–2010 Teaching Assistant, Northeastern University, Fundamentals of CS 1 (2004, 2007, 2008, 2010), Fundamentals of CS 2 (2005), Logic and Computation (2008)
- 2000–2003 Teaching Assistant, Georgia Institute of Technology, Theory I (2003), Languages and Translation (2000–2002)

Professional Activities

Dyla '14, IFL 2014, and ECOOP 2015 PCs; Reviewer for TOPLAS; external reviewer for ESOP 2011 and ICFP 2011

Professional Associations

Association for Computing Machinery, SIGPLAN

References

Matthias Felleisen

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Olin Shivers

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Matthew Flatt

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