

Michael M. Greenberg

Curriculum Vitae

1008 S. 18th St.
Philadelphia, PA 19146

+1 617 331-1965

<http://www.cis.upenn.edu/~mgree/>

mgree@seas.upenn.edu

Research Interests

My research is in programming language theory and practice. I am particularly interested in expressive type systems with intuitive interfaces, such as refinement types and contracts.

Education

2007- **PhD in Computer and Information Science**

present *University of Pennsylvania, Philadelphia, PA, USA*

Advisor: Benjamin C. Pierce

2003- **Bachelor of Arts in Computer Science (with Honors), Egyptology**

2007 *Brown University, Providence, RI, USA*

3.67/4.00 (92%) cumulative average

2005- **Computer Science Study Abroad**

2006 *Technion, Haifa, Israel*

77.5% cumulative average

2000- **Computer Science Study**

2003 *Indiana University, Bloomington, IN, USA*

3.78/4.00 (94%) cumulative average

Research and industry experience

Summer 2007 **AT&T Shannon Labs**

Intern

Worked on PADS/ML-Galax bridge with Yitzhak Mandelbaum and Mary Fernández. Extended PADS to support generic programming.

Summer 2005 **National Bioinformatics Network, Cape Town, South Africa**

Intern

Helped develop bioinformatics database, relational/graph mapping.

Publications

Davi M. J. Barbosa, Julien Cretin, Nate Foster, Michael Greenberg, and Benjamin C. Pierce. *Matching Lenses: Alignment and View Update*. Technical report MS-CIS-10-01, Department of Computer and Information Science, University of Pennsylvania, 2010. Paper in submission.

Michael Greenberg, Benjamin C. Pierce, and Stephanie Weirich. *Contracts Made Manifest*. POPL 2010.

Benjamin C. Pierce, Chris Casinghino, and Michael Greenberg. *Software Foundations*. Course book, available online: <http://www.cis.upenn.edu/~bcpierce/sf/>.

Leo Meyerovich, Arjun Guha, Jacob Baskin, Gregory H. Cooper, Michael Greenberg, Aleks Bromfield, and Shriram Krishnamurthi. *Flapjax. A Programming Language for Ajax Applications*. OOPSLA 2009.

Mary Fernández, Kathleen Fisher, J. Nathan Foster, Michael Greenberg, and Yitzhak Mandelbaum. *A Generic Programming Toolkit for PADS/ML: First-Class Upgrades for Third-Party Developers*. PADL 2008.

Michael Greenberg and Shriram Krishnamurthi. *Declarative, composable views*. Undergraduate honors thesis. May 2007.

Michael Greenberg, Casey Marks, Leo Alexander Meyerovich, and Michael Carl Tschantz. *The Soundness and Completeness of Margrave with Respect to a Subset of XACML*. Tech Report CS-05-05, Department of Computer Science, Brown University, 2005.

Shriram Krishnamurthi, Kathi Fisler, Michael Greenberg. *Verifying Aspect Advice Modularly*. FSE 2004.

Teaching

- Spring 2009 **CIS 500: Software Foundations**
TA at University of Pennsylvania
Graduate course on logic, functional programming, programming language theory, done in Coq.
- Fall 2008 **CIS 120: Programming Languages and Techniques I**
TA at University of Pennsylvania
Undergraduate course introducing Java, Python, and basic programming.
- Spring 2008 **POPL Coq Tutorial**
Assistant
Tutorial on metatheory in Coq
- Fall 2006 **CS051: Theory of Computation**
Tutor at Brown University
Undergraduate course on automata and language theory.
- Spring 2005 **CS032: Software Engineering**
TA at Brown University
Undergraduate course on Java and programming in the large.

Service

- Fall 2008-present PL Club coordinator
- Reviews POPL 2009, ICFP 2008

Languages

Modern: English, Hebrew, Russian
Ancient: Hebrew, Aramaic, Egyptian, Coptic, Greek, Latin