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HEATHER MILLER

Citizenship	USA
Research Interests	Programming language design and implementation for distributed programming. I'm interested in using type systems to facilitate the design of new, functional distributed systems.
Education	<p><i>EPFL, Lausanne, Switzerland</i> 2009 – Ph.D. in Computer Science Advisor: Martin Odersky 2011 –</p> <p><i>University of Miami, Coral Gables, FL</i> 2006 – 2009 BSEE in Electrical Engineering, Audio Engineering, <i>with honors</i>, May 2009</p> <p><i>Cooper Union for the Advancement of Science and Art, New York, NY</i> 2004 – 2006</p>
Service	<p><i>Committees</i>: Scala 2014 (co-chair), Scala 2013 (co-chair)</p> <p><i>Reviewer</i> for: ECOOP 2013</p>
Publications	<p>Functional Programming For All! Scaling a MOOC for Students And Professionals Alike ICSE 2014 Heather Miller, Philipp Haller, Lukas Rytz, Martin Odersky <i>ACM SIGSOFT International Conference on Software Engineering</i></p> <p>RAY: Integrating Rx and Async for Direct-Style Reactive Streams REM 2013 Philipp Haller, Heather Miller <i>Workshop on Reactivity, Events and Modularity</i></p> <p>Instant Pickles: Generating Object-Oriented Pickler Combinators for Fast and Extensible Serialization OOPSLA 2013 Heather Miller, Philipp Haller, Eugene Burmako, Martin Odersky <i>ACM SIGPLAN Conference on Object Oriented Programming, Systems, Languages and Applications</i></p> <p>FlowPools: A Lock-Free Deterministic Concurrent Dataflow Abstraction LCPC 2012 Aleksandar Prokopec, Heather Miller, Tobias Schlatter, Philipp Haller, Martin Odersky <i>International Workshop on Languages and Compilers for Parallel Computing</i></p>

Tools and Frameworks for Big Learning in Scala: Leveraging the Language for High Productivity and Performance

BigLearn 2011

Heather Miller, Philipp Haller, Martin Odersky

NIPS Workshop on Parallel and Large-Scale Machine Learning

Parallelizing Machine Learning – Functionally: A Framework and Abstractions for Parallel Graph Processing

Scala 2011

Philipp Haller, Heather Miller

Scala Workshop

Awards

US National Science Foundation Graduate Research Fellowship (2009)

2011–2014

EPFL Outstanding Teaching Award

2012

EPFL Computer Science Fellowship

2009 – 2010

Most Outstanding Audio Engineering Student, University of Miami

2009

Most Outstanding Eta Kappa Nu Student, University of Miami

2009

Information Technology Scholarship, University of Miami

2006–2009

John Farina Family Scholarship, University of Miami

2006–2009

Eta Kappa Nu

2008

Tau Beta Pi

2008

SMART US Department of Defense Scholarship Alternate

2007

Cooper Union Full Tuition Scholarship

2004 – 2006

**Teaching
Experience**

Lead Teaching Assistant, *Functional Programming Principles in Scala*

2012 –

Popular Coursera MOOC on functional programming in Scala

Role: One of the lead

Lead Teaching Assistant, *Programming Principles*

2012

Undergraduate course on introductory functional and logic programming