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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><b>Functional Programming For All! Scaling a MOOC for Students And Professionals Alike</b> ICSE 2014 Heather Miller, Philipp Haller, Lukas Rytz, Martin Odersky <i>ACM SIGPLAN International Conference on Software Engineering</i></p> <p><b>RAY: Integrating Rx and Async for Direct-Style Reactive Streams</b> REM 2013 Philipp Haller, Heather Miller <i>Workshop on Reactivity, Events and Modularity</i></p> <p><b>Instant Pickles: Generating Object-Oriented Pickler Combinators for Fast and Extensible Serialization</b> 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><b>FlowPools: A Lock-Free Deterministic Concurrent Dataflow Abstraction</b> 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*