Erik Joseph Silkensen

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Education

2012–present **Northeastern University**, Boston, MA
Ph.D. Computer Science (in progress)

2007–2012 **University of Colorado**, Boulder, CO
B.S., M.S. Computer Science, *Type-Oriented Island Parsing*
Advisor: Jeremy Siek

Experience

2012–present **Northeastern University**, Boston, MA
Graduate Research Assistant
Advisor: Mitchell Wand

2009–2011 **University of Colorado**, Boulder, CO
Undergraduate Research Assistant
Advisors: Elizabeth Jessup and Jeremy Siek

2008 **ProStor Systems**, Boulder, CO
Software Development Intern

Publications

Erik Silkensen and Jeremy Siek. Well-typed islands parse faster. *Lecture Notes in Computer Science*, Volume 7829, 2013. Revised Selected Papers from the Trends in Functional Programming 13th International Symposium, June 12-14, 2012.

Ian Karlin, Elizabeth Jessup, and Erik Silkensen. Modeling the memory and performance impacts of loop fusion. *Journal of Computational Science*, Volume 3, Issue 3, May 2012. Scientific Computation Methods and Applications.

Ian Karlin, Erik Silkensen, Elizabeth Jessup, Geoff Belter, Thomas Nelson, Pavel Zelinsky, and Jeremy Siek. A statistical approach to reducing an optimization search space. Proceedings of the *Colorado Celebration of Women in Computing*, November 2010.

Elizabeth Jessup, Ian Karlin, Erik Silkensen, Geoff Belter, and Jeremy Siek. Understanding memory effects in the automated generation of optimized matrix algebra kernels. Proceedings of the *International Conference on Computational Science*, May 2010.

Posters

Erik Silkensen, Ian Karlin, Geoff Belter, Elizabeth Jessup, and Jeremy Siek. Understanding Memory Effects of Loop Fusion for Linear Algebra Operations. *SIAM Conference on Computational Science and Engineering*, Reno, NV, March 2011.

Erik Silkensen, Ian Karlin, Geoff Belter, Elizabeth Jessup, and Jeremy Siek. Enhancing the Automatic Generation of Fused Linear Algebra Kernels. *International Conference for High Performance Computing, Networking, Storage and Analysis*, Portland, OR, November 2009.

Honors

2012–2017	University Excellence Fellowship
2007–2011	College of Engineering & Applied Science Dean's List and Merit Scholarships

Activities

2009, 2013	Student volunteer at the SC '09 and ICFP '13 conferences
2010–2011	Tutoring and grading for CSCI 2270 Data Structures
2009–2011	Member of the Computer Science Undergraduate Advising Committee