**Biographical Sketch**

Kathleen Fisher

Professor and Chair, Computer Science Department, Tufts University

161 College Ave., Medford, MA 02155

(617) 627-3831

[kfisher@cs.tufts.edu](mailto:kfisher@cs.tufts.edu)

#### a. Professional Preparation

Stanford University, Stanford, CA, Mathematical and Computational Science, BS with distinction, 1991

Stanford University, Stanford, CA, Computer Science, Ph.D., 1996.

**b. Academic/Professional Appointments**

Chair, Computer Science Department, Tufts University, September 2016 to the present.

Professor, Computer Science, Tufts University, March 2011 to the present.

Program Manager, I20, DARPA, July 2011 to July 2014.

Consulting Professor in Computer Science, Stanford University, July 2008 to March 2011.

Principal Member of the Technical Staff, AT&T Labs Research, April 2002 to March 2011.

Senior Member of the Technical Staff, AT&T Labs Research, September 1996 to April 2002.

# C. Publications

Selected papers of greatest relevance, most recent first.

1. Y. R. Wang, D. Nunez, and K. Fisher. Autobahn: Using genetic algorithms to infer strictness annotations. In Proceedings of the 9th International Symposium on Haskell, 2016.
2. J. DiLorenzo, R. Zhang, E. Menzies, K. Fisher, and N. Foster. Incremental Forest: A DSL for efficiently managing filestores. In OOPSLA ’16: Proceedings of the 2016 ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications, 2016.
3. P. Hawkins, A. Aiken, K. Fisher, M. Rinard, and M. Sagiv. Concurrent data representation synthesis. In PLDI ’12: Proceedings of the 2012 ACM SIGPLAN Conference on Programming Language Design and Implementation, 2012. Won 2012 PLDI Distinguished Paper Award.
4. P. Hawkins, A. Aiken, K. Fisher, M. Rinard, and M. Sagiv. Data representation synthesis. In  PLDI ’11: Proceedings of the 2011 ACM SIGPLAN Conference on Programming Language Design and Implementation, 2011. Won 2011 PLDI Best Paper Award.
5. C. Cortes, K. Fisher, D. Pregibon, A. Rogers, and F. Smith. Hancock: A language for analyzing transactional data streams. ACM Transactions on Programming Languages and Systems, 26(2):301–338, 2004.

Selected other publications, most recent first.

1. A. Miltner, K. Fisher, B.C. Pierce, D. Walker, S. Zdancewic. Synthesizing Bijective Lenses. In POPL ’18: Proceedings of the 45th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages, 2018.
2. T. Parr, S. Harwell, and K. Fisher. Adaptive LL(\*) parsing: The power of dynamic analysis.  In OOPSLA ’14: Proceedings of the 2014 ACM SIGPLAN International Conference on Object-Oriented Programming Systems Languages and Applications, 2014.
3. T. Parr and K. Fisher. LL(\*): The foundation of the ANTLR parser generator. In PLDI ’11:  Proceedings of the 2011 ACM SIGPLAN Conference on Programming Language Design and  Implementation, 2011.
4. K. Fisher, D. Walker, K. Q. Zhu, and P. White. From dirt to shovels: Fully automatic tool generation from ad hoc data. In POPL ’08: Proceedings of the 35th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages, 2008.
5. K. Fisher and R. Gruber. PADS: A domain-specific language for processing ad hoc data. In  PLDI ’05: Proceedings of the 2005 ACM SIGPLAN Conference on Programming Language  Design and Implementation, 2005.

# D. Synergistic Activities

1. PLDI Program Chair 2019; OOPSLA Program Chair 2011, ICFP Program Chair 2004. Frequent member of program and steering committees for ICFP, OOPSLA, PLDI, POPL, and various other conferences and workshops.
2. Associate editor for ACM TOPLAS 2014- 2017; Editor for Journal of Functional Programming from 2005 to 2011.
3. Co-founded the Programming Language Mentoring Workshop, which provides a day of mentoring activities for students before SIGPLAN’s flagship programming language conferences, with an emphasis on increasing the participation of women and underrepresented minorities. Initial workshop took place at POPL 2012. Now takes place annually at ICFP, OOPLSA, PLDI, and POPL.
4. Co-Chair of CRA-W 2008-2011, CRA’s standing committee charged with increasing the representation of women in research roles in computer science. As part of my work on this committee, I served as a speaker at the annual Grad Cohort Conference, which brings together first, second, and third-year female graduate students to provide information about how to succeed in graduate school and beyond.
5. ACM SIGPLAN Chair (2007 - 2009). Vice Chair (2003 - 2007). Member at large (2001 - 2003).