

Education

- **PhD, Computer Science**, Purdue University, USA, Dec 2014
Thesis title: *“Functional Programming Abstractions for Weakly Consistent Systems”*
- **MS, Computer Science**, Purdue University, USA, May 2011
- **BE, Computer Science and Engineering**, Anna University, India, May 2008

Employment

- **Senior Research Associate**, Computer Laboratory, University of Cambridge, Dec 2014 – Present
- **Research Fellow**, Royal Commission for the Exhibition of 1851, Oct 2015 – Present
- **Research Fellow**, Darwin College, Cambridge, Oct 2015 – Present
- **Research Assistant**, Purdue University, Aug 2008 – Dec 2014
- **Research Intern**, Microsoft Research, Cambridge, Feb 2012 – May 2012
- **Research Intern**, Samsung Research America, May 2010 – Aug 2010

Awards and Recognitions

- **Research Fellowship**, Royal Commission for the Exhibition of 1851, 2015–2018, £108,000.
- **Research Fellowship**, Darwin College, Cambridge, 2015–2018, £900.
- **Maurice H. Halstead Memorial Award** for outstanding research in Software Engineering, Purdue University, 2014, \$4,000.
- **Best paper award** at Many-core Architecture Research Symposium, 2012, \$1,000.
- Glasgow Haskell Compiler (GHC) Committer.
- **SIGPLAN PAC travel grant** for PLDI 2012 and POPL 2014, \$1,500 each.
- **NSF travel grant** for ICFP 2013, \$2,000.

Service

- **Organizer**, NII Shonan Meeting on “Programming Language support for Data-intensive Applications”, Jan 2019.
- **Organizer**, Dagstuhl Seminar on “*Algebraic Effect Handlers go Mainstream*”, Apr 2018.
- **Convener**, Darwin College Science Seminar, Oct 2015 – Oct 2017.
- **Program Committee member**: PMLDC@ECOOP 2017, Off-the-beaten track (OBT) 2017, OCaml Workshop 2016, SPLASH-MARC symposium, 2013
- **Artifact Evaluation Committee member**: ICFP 2018, PLDI 2015, PPOPP/CGO 2016.
- **Reviewer**: ECOOP, TODS, JFP, POPL, ICFP, ASPLOS, TLDI, Concurrency and Computation: Practice and Experience, Software: Practice and Experience.

Software

- **Multicore OCaml**: Native support for concurrency and parallelism in OCaml
- **Quelea**: Declarative programming over eventually consistent data stores
- **MultiMLton**: MLton Standard ML compiler for exotic manycore architectures

Journal Publications

1. Stephen Dolan, Spiros Eliopoulos, Daniel Hillerström, Anil Madhavapeddy, **KC Sivaramakrishnan**, Leo White, “*Concurrent System Programming with Effect Handlers*”, Lecture Notes in Computer Science (LNCS), 2017 (accepted)
2. Oleg Kiselyov, **KC Sivaramakrishnan**, “*Eff directly in OCaml*”, Electronic Proceedings in Theoretical Computer Science (EPTCS), 2017 (accepted)
3. **KC Sivaramakrishnan**, Tim Harris, Simon Marlow, Simon Peyton Jones, “*Composable Scheduler Activations for Haskell*”, Journal of Functional Programming (JFP), Jun 2016
4. **KC Sivaramakrishnan**, Gowtham Kaki, Suresh Jagannathan, “*Representation without Taxation: A Uniform, Low-Overhead, and High-Level Interface to Eventually Consistent Key-Value Stores*”, IEEE Data Engineering Bulletin, 39(1): 52–64, Mar 2016
5. **KC Sivaramakrishnan**, Lukasz Ziarek, Suresh Jagannathan, “*MultiMLton: A Multicore-aware Runtime for Standard ML*”, Journal of Functional Programming (JFP), Nov 2014
6. **KC Sivaramakrishnan**, Mohammad Qudeisat, Lukasz Ziarek, Karthik Nagaraj, Patrick Eugster, “*Efficient Sessions*”, Science of Computer Programming (SCP), 78(2): 147 – 167, Feb 2013

Conference Publications

1. Daniel Hillerström, Sam Lindley, Robert Atkey, **KC Sivaramakrishnan**, “*Continuation Passing Style for Effect Handlers*”, International Conference on Formal Structures for Computation and Deduction (FSCD), 2017
2. Gowtham Kaki, **KC Sivaramakrishnan**, Thomas Gazagnaire, Anil Madhavapeddy, Suresh Jagannathan, “*DaLi: Database as a Library*”, The 2nd Annual Summit on Advances in Programming Languages (SNAPL), 2017 (Oral Presentation)
3. **KC Sivaramakrishnan**, Gowtham Kaki, Suresh Jagannathan, “*Declarative Programming over Eventually Consistent Data Stores*”, International Conference on Programming Language Design and Implementation (PLDI), 2015
4. **KC Sivaramakrishnan**, Lukasz Ziarek, Suresh Jagannathan, “*Rx-CML: A Prescription for Safely Relaxing Synchrony*”, Symposium on Practical Aspects of Declarative Languages (PADL), 2014
5. **KC Sivaramakrishnan**, Lukasz Ziarek, Suresh Jagannathan, “*A Coherent and Managed Runtime for ML on the SCC*”, Many-core Architecture Research Community Symposium (MARC), 2012
6. **KC Sivaramakrishnan**, Lukasz Ziarek, Suresh Jagannathan, “*Eliminating Read Barriers through Procrastination and Cleanliness*”, International Symposium on Memory Management (ISMM), 2012
7. Lukasz Ziarek, **KC Sivaramakrishnan**, Suresh Jagannathan, “*Composable Asynchronous Events*”, International Conference on Programming Language Design and Implementation (PLDI), 2011
8. **KC Sivaramakrishnan**, Karthik Nagaraj, Lukasz Ziarek, Patrick Eugster, “*Efficient Session Type Guided Distributed Interaction*”, International Conference on Coordination Models and Languages (COORDINATION), 2010
9. Lukasz Ziarek, **KC Sivaramakrishnan**, Suresh Jagannathan, “*Partial Memoization of Concurrency and Communication*”, International Conference on Functional Programming (ICFP), 2009