Curriculum Vitae

May 10, 2024

KC Sivaramakrishnan

Department of Computer Science and Engineering Indian Institute of Technology, Madras Chennai, India - 600036

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Summary

I build robust, secure and scalable systems using programming language technology.

***** Education

PhD — Computer Science	May 2011 – Dec 2014 Purdue University, USA
Thesis Title: Functional Programming Abstractions for Weakly Consistent Systems Advisor: Suresh Jagannathan	Furdue University, USA
Master of Science — Computer Science	Aug 2008 – May 2011 Purdue University, USA
Bachelor of Engineering — Computer Science and Engineering	Aug 2004 – May 2008 PSG College of Technology Anna University, India
❖ Experience	
Chief Technology Officer, Tarides	Dec 2022 – Present
Adjunct Professor, Indian Institute of Technology, Madras	Dec 2022 – Present
Assistant Professor, Indian Institute of Technology, Madras	Jan 2019 – Dec 2022
Senior Research Associate, University of Cambridge Advisors: Alan Mycroft, Anil Madhavapeddy	Nov 2017 – Dec 2018 Cambridge, UK
Research Fellow, Royal Commission for the Exhibition of 1851	Oct 2015 – Oct 2018
Research Fellow, Darwin College, Cambridge	Oct 2015 – Oct 2018
Research Associate, University of Cambridge	Dec 2014 – Oct 2017
Research Assistant, Purdue University Advisor: Suresh Jagannathan	Aug 2008 – Dec 2014 West Lafayette, IN, USA
Teaching Assistant, Purdue University Undergraduate C Programming (CS180) Graduate Programming Languages (CS565)	West Lafayette, IN, USA Aug 2012 – Dec 2012 Aug 2011 – Dec 2011
Research Intern, Microsoft Research, Cambridge Advisors: Tim Harris, Simon Marlow, and Simon Peyton Jones	Feb 2012 – May 2012 Cambridge, UK
Research Intern, Samsung Information Systems America (R&D) Advisor: Daniel Waddington	May 2010 – Aug 2010 San Jose, CA, USA
Intern, Advanced Numerical Research and Analysis Group Advisor: Sankar Chnab	Dec 2007 – Apr 2008 Hyderabad, India

Awards and Recognitions

- SIGPLAN Programming Languages Software Award, 2023.
- Invited keynote speaker at ICFP 2022.

- Invited keynote speaker at OCaml Workshop 2022.
- Distinguished paper at PADL 2021.
- Distinguished paper award at ICFP 2020.
- Class of 1991 Award for Young Faculty in Computer Science and Engineering, IIT Madras, 2019.
- Research Fellowship, Royal Commission for the Exhibition of 1851, 2015–2018.
- Research Fellowship, Darwin College, Cambridge, 2015–2018.
- Maurice H. Halstead Memorial Award for outstanding research in Software Engineering, Purdue University, 2014.
- Best paper award at Many-core Architecture Research Symposium at RWTH-Aachen, 2012.

Invited Seminars and Workshops

- Observer, WG 2.1, Canberra, Nov 2024
- Guest, WG 2.8, Utrecht, Apr 2024
- Dagstuhl Seminar 23101: "Foundations of WebAssembly", Mar 2023
- Dagstuhl Seminar 21292: "Scalable Handling of Effects", Jul 2021
- Dagstuhl Seminar 16112: "From Theory to Practice of Algebraic Effects and Handlers", May 2016

Grants

- PI, Multicore Support for Tezos blockchain, Tezos Foundation, 2019 2023, £194,000.
- PI, Qilin: Scalable Concurrent Unikernels with Effect Handlers, IIT Madras, 2019 2021, INR 500,000.
- Co-I, Feasibility of an Operating System for Interspatial Networking in a Built Environment, Centre for Digital Built Britain (CDBB), 2018, £24,000.
- PI, Quelea: Safe Declarative Programming over Heterogeneous Parallel Systems, Royal Commission for the Exhibition of 1851, 2015–2018, £102,000.

Academic Service

- Organizer, Dagstuhl Seminar on "Algebraic Effect Handlers go Mainstream", Apr 2018.
- Organizer, Shonan Meeting No.143 on "Programming Language Support for Data-intensive Applications", June 2019.
- **Editor**, Special Issue of the Journal of Functional Programming (JFP) on the Theory and Practice of Algebraic Effects and Handlers, 2019.
- Program Committee Chair: PaPoC 2022, ML Workshop 2019.
 - Program Committee member: TFP 2024, POPL 2024, PLDI 2023, ML Workshop 2022, OCaml Workshop 2022, PLDI 2022, PEPM 2022, TyDe 2021, GPCE 2021, PADL 2021, PapoC 2021, ICFP 2020, PAPOC@EuroSys 2020, OCaml Workshop 2022, PLDI 2022, PEPM 2022, TyDe 2021, GPCE 2021, PADL 2021, PapoC 2021, ICFP 2020, PAPOC@EuroSys 2020, OCaml Workshop 2022, PLDI 2022, PEPM 2022, PEPM 2022, PLDI 2022, PEPM 2022, PLDI 2022, PEPM 2022, PLDI 2022, PLDI 2022, PLDI 2022, PAPOC@EuroSys 2020, OCaml Workshop 2022, PLDI 2022
- shop 2019, PMLDC@ECOOP 2017, Off-the-beaten track (OBT) 2017, OCaml Workshop 2016, SPLASH-MARC symposium, 2013.
- External Review Committee member: ICFP 2019.
- Artifact Evaluation Committee Chair: ESOP 2022.
- Artifact Evaluation Committee member: ICFP 2018, PLDI 2015, PPoPP/CGO 2016.
 - Expert Reviewer: POPL 2023, JFP 2021, PLDI 2020, ESOP 2020, JPDC 2020, LICS 2019, ECOOP 2019, TODS 2019,
- JFP 2018, POPL 2014, ICFP 2013, ASPLOS 2013, TLDI 2013, Concurrency and Computation: Practice and Experience 2013, Software: Practice and Experience 2012.

Institutional Service

• Technical Committee Member, Department of School Education, Government of Tamil Nadu, 2020 - 2022.

- Board Member, Industrial Consultancy and Sponsored Research (ICSR), IIT Madras, 2021 2023.
- Department Vision Committee, Computer Science and Engineering, IIT Madras, 2021.
- Department Website Revamp Committee, Computer Science and Engineering, IIT Madras, 2021.
- Faculty Advisor, BTech batch, Computer Science and Engineering, IIT Madras, 2021.
- Organizer for Darwin College Science Seminar Series, Oct 2015 May 2017.

Journal of Functional Programming (JFP), 24(6): 613 – 674

Science of Computer Programming (SCP), 78(2): 147 – 167

KC Sivaramakrishnan, Mohammad Oudeisat, Lukasz Ziarek, Karthik Nagaraj, Patrick Eugster

Efficient Sessions

J1

• Interviewer for Undergraduate Admissions to Computer Science, Christ's College, Cambridge, 2016, 2017 and 2018

Edited Publications

Special Issue on the Theory and Practice of Algebraic Effects and Handlers Jan 2021 E2 KC Sivaramakrishnan, Andrej Bauer (eds.) Journal of Functional Programming Algebraic Effect Handlers go Mainstream Apr 2018 E1 KC Sivaramakrishnan, Daan Leijen, Matija Pretnar, Tom Schrijvers Dagstuhl Reports, Volume 8, Issue 4, 2018 Journal Publications **Retrofitting Parallelism onto OCaml** Aug 2020 KC Sivaramakrishnan, Stephen Dolan, Leo White, Sadiq Jaffer, Tom Kelly, Anmol Sahoo, Sudha Parimala, J9 Atul Dhiman, Anil Madhavapeddy Proceedings of the ACM on Programming Languages (PACMPL), issue ICFP 2020 Distinguished paper Mergeable Replicated Data Types Oct 2019 J8 Gowtham Kaki, Swarn Priya, KC Sivaramakrishnan, Suresh Jagannathan Proceedings of the ACM on Programming Languages (PACMPL), issue OOPSLA 2019 Safe Replication through Bounded Concurrency Verification Nov 2018 J7 Gowtham Kaki, Kapil Earanky, KC Sivaramakrishnan, Suresh Jagannathan Proceedings of the ACM on Programming Languages (PACMPL), issue OOPSLA 2018 **Concurrent System Programming with Effect Handlers** Nov 2017 Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo J6 White Post-proceedings of the Symposium on Trends in Functional Programming (TFP) (accepted) Eff directly in OCaml Oct 2017 J5 Oleg, Kiselyov, KC Sivaramakrishnan Post-proceedings of the ML Workshop (accepted) **Composable Scheduler Activations for Haskell** Jun 2016 KC Sivaramakrishnan, Tim Harris, Simon Marlow, Simon Peyton Jones J4 Journal of Functional Programming (JFP) Representation without Taxation: A Uniform, Low-Overhead, and High-Level Interface to Eventu-Mar 2016 ally Consistent Key-Value Stores J3 KC Sivaramakrishnan, Gowtham Kaki, Suresh Jagannathan IEEE Data Engineering Bulletin, 39(1): 52 – 64 MultiMLton: A Multicore-aware Runtime for Standard ML Nov 2014 J2 KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan

Feb 2013

***** Conference Publications

	Conference Publications	
C15	Certified Mergeable Replicated Datatypes Vimala Soundarapandian, Adharsh Kamath, Kartik Nagar, KC Sivaramakrishnan International Conference on Programming Language Design and Implementation (PLDI), 2022	Jun 2022
C14	Retrofitting Effect Handlers to OCaml KC Sivaramakrishnan, Stephen Dolan, Leo White, Sadiq Jaffer, Tom Kelly, Anil Madhavapeddy International Conference on Programming Language Design and Implementation (PLDI), 2021	Jun 2021
C13	ConFuzz: Coverage-guided Property Fuzzing for Event-driven Programs Sumit Padhiyar, KC Sivaramakrishnan Proceedings of the 23rd International Symposium on Practical Aspects of Declarative Languages (PADL), 2021 Distinguished paper	Jan 2021
C12	Banyan: Coordination-free Distributed Transactions over Mergeable Types Shashank Shakhar Dubey, KC Sivaramakrishnan, Thomas Gazagnaire, Anil Madhavapeddy Proceedings of the 18th Asian Symposium on Programming Languages and Systems (APLAS), 2020	Dec 2020
C11	Version Control Is For Your Data Too Gowtham Kaki, KC Sivaramakrishnan, Suresh Jagannathan The 3rd Summit on Advances in Programming Languages (SNAPL), 2019	May 2019
C10	Bounding Data Races in Space and Time Stephen Dolan, KC Sivaramakrishnan, Anil Madhavapeddy International Conference on Programming Language Design and Implementation (PLDI)	Jun 2018
C9	Continuation Passing Style for Effect Handlers Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan International Conference on Formal Structures for Computation and Deduction (FSCD)	Sep 2017
C8	DaLi: Database as a Library Gowtham Kaki, KC Sivaramakrishnan, Thomas Gazagnaire, Anil Madhavapeddy, Suresh Jagannathan The 2nd Summit on Advances in Programming Languages (SNAPL) Oral Presentation	May 2017
C7	Declarative Programming over Eventually Consistent Data Stores KC Sivaramakrishnan, Gowtham Kaki, Suresh Jagannathan International Conference on Programming Language Design and Implementation (PLDI)	Jun 2015
C6	Rx-CML: A Prescription for Safely Relaxing Synchrony KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan Symposium on Practical Aspects of Declarative Languages (PADL)	Jan 2014
C5	A Coherent and Managed Runtime for ML on the SCC KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan Many-core Architecture Research Community Symposium (MARC) Best paper award	Nov 2012
C4	Eliminating Read Barriers through Procrastination and Cleanliness KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan International Symposium on Memory Management (ISMM)	Jun 2012
C3	Composable Asynchronous Events Lukasz Ziarek, KC Sivaramakrishnan, Suresh Jagannathan International Conference on Programming Language Design and Implementation (PLDI)	Jun 2011

### Efficient Session Type Cuided Distributed Interaction K Skaramakrishnan, Karthik Nagara, Lukarz. Zinvek, Patrick Fugster International Conference on Coordination Models and Languages (COORDINATION) Partial Memoization of Concurrency and Communication Lukasz Ziarek, KG Sivaramakrishnan, suresh Jagannathan International Conference on Functional Programming (ICFP) * Workshop Publications Composing Schedulers using Effect Handlers Composing Schedulers using Effect Handlers Common Coll Morkshop, 2022 Marrying Replicated and Functional Data Structures Warping Replicated Processes College			
Lukasz Ziarek, KC Sivaramakrishnan, Suresh, Jagannathan International Conference on Functional Programming (ICFP) Workshop Publications Sep 2022	C2	KC Sivaramakrishnan, Karthik Nagaraj, Lukasz Ziarek, Patrick Eugster	June 2010
Composing Schedulers using Effect Handlers Deapall Ande, KC Sivaramakrishnan OCaml Workshop, 2022 Marrying Replicated and Functional Data Structures W20 Vimala Soundarapandian, Adharsh Kamath, Kartik Nagar, KC Sivaramakrishnan 9th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2022 Parafuzz: Coverage-guided Property Fuzzing for Multicore OCaml programs Sumit Padhiyar, Adharsh Kamath, KC Sivaramakrishnan OCaml Workshop, 2021 Experiences with Effects Thomas Leonard, Craig Ferguson, Patrick Ferris, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan, Anil Madhavapeddy OCaml Workshop, 2021 Adapting the OCaml ecosystem for Multicore OCaml Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan OCaml Workshop, 2021 Certified Mergeable Replicated Data Types Vimala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers.js Apr 2018 M15 Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication M14 All Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml W13 Stephen Dolan and KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml W16 Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types Govotham Raki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan MI. Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	C1	Lukasz Ziarek, KC Sivaramakrishnan, Suresh Jagannathan	Sep 2009
Marying Replicated and Functional Data Structures W20 Vimala Soundarapandian, Adharsh Kamath, Kartik Nagar, KC Sivaramakrishnan 9th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2022 Parafuzz: Coverage-guided Property Fuzzing for Multicore OCaml programs Sumit Padhiyar, Adharsh Kamath, KC Sivaramakrishnan OCaml Workshop, 2021 Experiences with Effects Thomas Leonard, Craig Ferguson, Patrick Ferris, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan, Anil Madhavapeddy OCaml Workshop, 2021 Adapting the OCaml ecosystem for Multicore OCaml W17 Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan OCaml Workshop, 2021 Certified Mergeable Replicated Data Types W16 Vimala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers, js W15 Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication W14 Anil Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml W17 Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types W10 Govuham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	*	Workshop Publications	
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W19 Sumit Padhiyar, Adharsh Kamath, KC Sivaramakrishnan OCaml Workshop, 2021 Experiences with Effects Thomas Leonard, Craig Ferguson, Patrick Ferris, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan, Anil Madhavapeddy OCaml Workshop, 2021 Adapting the OCaml ecosystem for Multicore OCaml Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan OCaml Workshop, 2021 Certified Mergeable Replicated Data Types W16 Winala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers.js W15 Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication W14 Anil Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml W13 Stephen Dolan and KC Sivaramakrishnan OCaml Workshop, 2017 Effectively Tackling the Awkward Squad Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types Gontham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	W20	Vimala Soundarapandian, Adharsh Kamath, Kartik Nagar, KC Sivaramakrishnan	May 2022
Thomas Leonard, Craig Ferguson, Patrick Ferris, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan, Anil Madhavapeddy OCaml Workshop, 2021 Adapting the OCaml ecosystem for Multicore OCaml Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan OCaml Workshop, 2021 Certified Mergeable Replicated Data Types Winala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers, js Winale Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan Apr 2018 Handlers, js Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication Apr 2018 Anil Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml Stephen Dolan and KC Sivaramakrishnan OCaml Workshop, 2017 Effectively Tackling the Awkward Squad Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	W19	Sumit Padhiyar, Adharsh Kamath, KC Sivaramakrishnan	Aug 2021
Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan OCaml Workshop, 2021 Certified Mergeable Replicated Data Types Wimala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers.js Wis Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication Wis Anil Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml Stephen Dolan and KC Sivaramakrishnan OCaml Workshop, 2017 Effectively Tackling the Awkward Squad Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White White	W18	Thomas Leonard, Craig Ferguson, Patrick Ferris, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan, Anil Madhavapeddy	Aug 2021
W16 Vimala Soundarapandian, KC Sivaramakrishnan, Kartik Nagar 8th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC), 2021 Handlers.js Apr 2018 W15 Daniel Hillerström, Sam Lindley, Robert Atkey, KC Sivaramakrishnan, Jeremy Yallop Programming Technology for the Future Web (ProWeb), 2019 An Architecture for Interspatial Communication Anil Madhavapeddy, KC Sivaramakrishnan, Gemma Gordon, Thomas Gazagnaire Hot Topics in Pervasive Mobile and Online Social Networking (HotPOST), 2018 A Memory Model for Multicore OCaml Stephen Dolan and KC Sivaramakrishnan OCaml Workshop, 2017 Effectively Tackling the Awkward Squad Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White V10 W110 W111 W111 W112 W113 W114 W115 W115 W115 W115 W115 W116 W116 W116	W17	Sudha Parimala, Enguerrand Decorne, Sadiq Jaffer, Tom Kelly, KC Sivaramakrishnan	Aug 2021
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 W12 Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White OCaml Workshop, 2017 Mergeable Types	W13	Stephen Dolan and KC Sivaramakrishnan	Sep 2017
W11 Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan ML Workshop Concurrent System Programming with Effect Handlers Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	W12	Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	Sep 2017
W10 Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	W11	Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan	Sep 2017
	W10	Stephen Dolan, Spiros Eliopolous, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishnan, Leo White	Jun 2017

W9	Eff directly in OCaml Oleg Kiselyov and KC Sivaramakrishnan JSSST Workshop on Programming and Programming Languages	Mar 2017
W8	Lock-free programming for the masses KC Sivaramakrishnan, Théo Laurent OCaml Workshop, 2016	Sep 2016
W7	Compiling Links Effect Handlers to the OCaml Backend Daniel Hilleström, Sam Lindley, KC Sivaramakrishnan ML Worshop	Sep 2016
W6	Eff Directly in OCaml Oleg Kiselyov and KC Sivaramakrishnan ML Workshop	Sep 2016
W5	Effective Concurrency with Algebraic Effects Stephen Dolan, Leo White, KC Sivaramakrishnan, Jeremy Yallop and Anil Madhavapeddy OCaml Workshop, 2015	Sep 2015
W4	Migrating MultiMLton to the Cloud KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan ML Workshop	Sep 2013
W3	Scalable Lightweight Task Management Schemes for MIMD Processors Daniel G. Waddington, Chen Tian, KC Sivaramakrishnan Workshop on Systems for Future Multi-Core Architectures (SFMA)	Apr 2011
W2	The Design Rationale for MultiMLton Suresh Jagannathan, Armand Navabi, KC Sivaramakrishnan, Lukasz Ziarek ML Workshop	Sep 2010
W1	Lightweight Asynchrony using Parasitic Threads KC Sivaramakrishnan, Lukasz Ziarek, Raghavendra Prasad, Suresh Jagannathan Workshop on Declarative Aspects of Multicore Programming (DAMP)	Jan 2010
*	Technical Reports and Drafts	
T1	Featherweight Threads for Communication KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan Purdue University Computer Science Technical Report – TR-11-018	Nov 2011

Teaching

- Lecturer:
 - Compiler Design, IIT Madras, Monsoon '22
 - Programs and Proofs, IIT Madras, Spring '20, Spring '21.
 - Paradigms of Programming, IIT Madras, Monsoon '19, Monsoon '20.
- Guest Lectures:
 - Arrows, Advanced Functional Programming, University of Cambridge, Lent '16.
 - Debugging, Programming in C and C++, University of Cambridge, Michelmas '15.
- Supervisions at University of Cambridge:
 - Databases, Michelmas '18, Lent '17, Michaelmas '17, Lent '16.
 - Concurrent and Distributed Systems, Lent '17, Michaelmas '17, Lent '16, Michaelmas '16, Lent '15.

- Algorithms, Lent '15.
- Object-oriented Programming, Michaelmas 2015–16.
- Teaching assistantships at Purdue University
 - Undergraduate C Programming (CS180), Aug 2012 Dec 2012.
 - Graduate Programming Languages (CS565), Aug 2011 Dec 2011.

Advising

- PhD Students
 - Sai Venkata Krishnan, 2021 present
 - Vimala Soundarapandian, 2020 present
 - Sheera Shamsu, 2019 present
- Master's Students
 - Deepali Ande, MS, 2020 2023
 - Sumit Padhiyar, MS, 2019 2021
 - Shashank Shekhar Dubey, MS, 2019 2021
 - Atul Dhiman, MTech, 2019 2020
- Undergraduate Students
 - Sooraj Srinivasan, UGRC, 2023
 - Mantra Trambadia, UGRC, 2023
 - Narasimha, UGRC, 2023
 - Anirudh Sunder Raj, Dual Degree Project, 2020 2021
 - Arnhav Datar, UGRC, 2021
 - Matevz Polijanc, Part II, University of Cambridge, 2017 2018
 - Charlie Crisp, Part II, University of Cambridge, 2017 2018
 - Henry Mercer, Part II, University of Cambridge, 2017 2018
 - Matt Harrison, Part II, University of Cambridge, 2016 2017
 - James Wright, Part II, University of Cambridge, 2015 2016
- Project Staff
 - Sudha Parimala, RSDE, IITM, 2019 2021
 - Shubham Kumar, RSDE, IITM, 2019 2021
 - Shakthi Kannan, RSDE, IITM, 2020 2021
 - Shubhendra Singhal, RSDE, IITM, 2020 2021
 - Anmol Sahoo, RSDE, IITM, 2019 2020
- Interns
 - Aadharsh Kamath, NITK, 2021
 - Shagun Goel, Stanford University, 2020
 - Pratap Singh, Harvard University, 2019
 - Nicolas Assouad, ENS Paris, 2017
 - Maxime Lesourd, ENS Lyon, 2017
 - Philip Dexter, Binghampton University, 2016
 - Armael Gueneau, ENS Lyon, 2016
 - Theo Laurent, ENS Lyon, 2015
 - Guillain Potron, ENS Lyon, 2015