

# Curriculum Vitae

LUKASZ ZIAREK

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## Education

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- *Ph.D.*, Purdue University, West Lafayette, IN. May 2011  
Department of Computer Science  
Thesis: “*Abstractions for Robust Higher-Order Message-Based Communication*”  
Advisor: Suresh Jagannathan
- *B.S.*, University of Chicago, Chicago, IL. December 2003  
Department of Computer Science  
B.A. Thesis: “*Adding Existential Types to SML/NJ*”  
Advisor: David MacQueen

## Employment History

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- *Assistant Professor*, Computer Science & Eng., University at Buffalo Aug 2012 – present
- *Visiting Assistant Professor*, Computer Science, Purdue University Jun 2011 – Aug 2012
- *Graduate Lecturer*, Computer Science, Purdue University Jan 2011 – May 2011
- *Research Assistant*, Computer Science, Purdue University Jan 2004 – Dec 2010
- *Technical Intern*, Intel Corporation, Santa Clara, California USA Mar 2007 – Sep 2007
- *Research Assistant*, Computer Science, University of Chicago Jun 2003 – Dec 2003

## Professional Board Membership

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- *President*, Fiji Systems Inc. Dec 2009 – present
- *Vice-President*, Fiji Systems Inc. Dec 2008 – 2009

## Awards

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- *Best Paper award* Many-core Applications Research Community Symposium 2012.
- Halstead Award for Outstanding Research in Software Engineering, 2009.

## Honors

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- Intel Fellowship, 2008.
- Department Of Education Graduate Assistance In Areas Of National Need Fellowship, 2004.
- University of Chicago: Graduated with General Honors, 2003.
- University of Chicago: Dean's List, 2000-2001 and 2002-2003.

## Service and Professional Memberships

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### Service

- **Organization Committee** Workshop on Reactive and Event-based Languages and Systems 2015
- **Program Chair** Workshop on Java Technologies for Real-time and Embedded Systems 2015
- **Organization Committee** Workshop on Reactive and Event-based Languages and Systems 2014
- **General Chair** Workshop on Java Technologies for Real-time and Embedded Systems 2014
- **Program Chair** Doctoral Symposium – ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity 2014
- **Organization Committee** Workshop on Reactivity, Events and Modularity 2013
- **Program Chair** Doctoral Symposium – ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity 2013
- **Invited Workshop Participant** High-Level Programming Models for Parallelism. NSF 2013
- **Guest Editor** Transactions on Aspect-Oriented Software Development: Special Issue on Events, Aspects, and Modularity.
- **co-Editor** The JTRES 2014 Special Issue of Concurrency and Computation: Practice and Experience

### Program Committees and Reviews

- **Program Committee** International Symposium on Practical Aspects of Declarative Languages 2016
- **Program Committee** IEEE Workshop on Declarative Programming for Real-Time and Cyber-Physical Systems 2015
- **Program Committee** Workshop on Java Technologies for Real-time and Embedded Systems 2015
- **Reviewer** Research Grants Council (RGC) of Hong Kong 2015
- **Program Committee** ACM SIGAda's Annual International Conference on High Integrity Language Technology (HILT) 2014
- **Reviewer** Research Grants Council (RGC) of Hong Kong 2014

- **Panelist** NSF – Computing and Communication Foundations (CCF) 2014
- **Program Committee** Workshop on Java Technologies for Real-time and Embedded Systems 2014
- **Reviewer** Netherlands Organization for Scientific Research (NWO), Netherlands 2013
- **Reviewer** National Science Centre (Narodowe Centrum Nauki - NCN), Poland 2013
- **Panelist** NSF – Computing and Communication Foundations (CCF) 2013
- **Program Committee** Workshop on Declarative Aspects for Multi-Core Programming 2012
- **Program Committee** Workshop on Java Technologies for Real-time and Embedded Systems 2011
- **Program Committee** Workshop on Java Technologies for Real-time and Embedded Systems 2010
- **Journal reviewer for:** Concurrency and Computation Practice and Experience; Software: Practice and Experience; IEEE Software; ACM Transactions on Computing Education; Computer Languages, Systems & Structures.

### Professional Memberships

- **Member** Association for Computer Machinery (ACM) 2013 – present
- **Member** Computer Science Teachers Association (CSTA) 2012 – present

### Departmental Service

- Department of CSE, University at Buffalo
  - Member, Faculty Search Committee Fall 2014– present
  - Member, Undergraduate Affairs Committee Fall 2012– present
  - Member, Graduate Admissions Committee Fall 2012– present
  - Member, Colloquium Committee Fall 2014– Fall 2015
  - Member, Distinguished Speakers Committee Fall 2013– Summer 2014
- Department of CS, Purdue University
  - Graduate Student Board Representative Spring 2005 - Fall 2008

### Community Service and Outreach

- **High School Outreach** CSTA of Western NY Professional Development Series. 2014
- **Invited Workshop** Data Science in the CS Classroom Resources. CS4HS, Buffalo State. 2014
- **Invited Workshop** Google Mentor’s Summit. 2013
- **Mentor** Google Summer of Code. MLton.org. 2013
- **Invited Workshop** Using Python in the Classroom. CS4HS, Buffalo State. 2013
- **Invited Workshop** Using Python in the Classroom. CSTA, Buffalo State. 2012

## Courses Taught

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- Department of CSE, University at Buffalo
  - CSE 605: Advanced Programming Languages Spring 2015
  - CSE 605: Advanced Programming Languages Fall 2014
  - CSE 711: Static and Dynamic Analysis of Android Applications Spring 2014
  - CSE 505: Fundamentals of Programming Languages Fall 2013
  - CSE 711: Topics in Programming Languages Spring 2013
  - CSE 605: Advanced Programming Languages Fall 2012
- Department of CS, Purdue University
  - CS 177: Programming With Multimedia Objects Summer 2012
  - CS 177: Programming With Multimedia Objects Spring 2012
  - CS 177: Programming With Multimedia Objects Fall 2011
  - CS 177: Programming With Multimedia Objects Spring 2011

## Courses Supervised

- Department of CSE, University at Buffalo
  - CSE 305: Intro. to Programming Languages (Taught by: Ladan Golshanara) Summer 2014

## Research Supervision

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### Students Supervised as Major Professor (3)

- Adam Czerniejewski Summer 2015– present
- Yin Yan (Ph.D.) Fall 2013– present
- Justin Del Vechio (Ph.D.) Fall 2013– present
- Shaun Cosgrove (M.S.) Spring 2013– Fall 2014

### Students co-Supervised (3)

- Feng Shen (Ph.D., co-Advised with Steve Ko) Fall 2012– present
- Ankur Upadhyay (M.S., co-Advised with Oliver Kennedy) Fall 2012– Spring 2014
- Sumit Agarwal (M.S., co-Advised with Oliver Kennedy) Fall 2012– Spring 2014

## Independent Study (18)

11 of the students performing independent study under my guidance have published papers in peer reviewed journals, conferences, and workshops as a result of the work performed in the independent study. They are denoted by \*.

- Shanyao Jian (M.S) Spring 2015
- Xinyu Yuan (M.S) Spring 2015
- Boyu Wang\* (M.S) Fall 2014– Spring 2015
- Vasanth Subramanian (M.S) Fall 2014– Spring 2015
- Babu Prasad\* (M.S.) Fall 2014
- Yongshen Song (M.S) Fall 2014
- Mohit Arora\* (M.S.) Spring 2014
- Sneha Banerjee (M.S) Spring 2014
- Shaun Gerard Cosgrove\* (M.S.) Spring 2014
- Harsha Somashekara Hassan (M.S.) Spring 2014
- Karnesh Mehra (M.S.) Spring 2014
- Niranjan Mohan (M.S.) Spring 2014
- Amber Rastogi (M.S.) Spring 2014
- Sai Sekhar Reddy Tummala (M.S.) Spring 2014
- Yin Yan\* (Ph.D.) Spring 2014
- Varun Anand\* (M.S.) Fall 2013
- Ankit Deshmukh (M.S.) Fall 2013
- Sree Harsha Konduri\* (M.S.) Fall 2013
- Amit Kulkarni\* (M.S.) Fall 2013
- Chirag Todarka\* (M.S.) Fall 2013
- Vishwas Nanjudaswamy\* (M.S.) Spring 2013
- Manish Jain (M.S.) Spring 2013
- Ankur Upadhyay\* (M.S.) Spring 2013
- Don Manuel\* (M.S.) Fall 2012

### Undergraduate Advising (3)

- Greg Bunyea Summer 2015– present
- Nate Burgers Fall 2013– present
- Daniel Bellinger (B.S., co-Advised with Oliver Kennedy) Fall 2012– Fall 2013

### Student Committee Membership (2)

- Dennis Patronne (Advisor: Bina Ramamurthy)
- Demian Lessa (Advisor: Bharat Jayaraman – unofficial member)

## Grant Support

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### Current Grants (2)

*Title:* II-EN: Collaborative Research: Positioning MLton for Next-Generation Programming Languages Research  
*Agency:* NSF  
*Role:* PI  
*Effective Dates:* 08/2014–07/2017  
*Total Amount:* \$605,970  
*Other PIs/co-PIs:* Matthew Fluet (RIT)  
*UB Amount:* \$381,640  
*Credit of UB Amount:* 100%

*Title:* II-NEW: Collaborative Research: An Extensible Software Infrastructure for Unmanned Aerial Vehicles  
*Agency:* NSF  
*Role:* PI  
*Effective Dates:* 08/2015–07/2016  
*Total Amount:* \$85,000  
*Other PIs/co-PIs:* David Liu (SUNY Binghamton)  
*UB Amount:* \$42,268  
*Credit of UB Amount:* 100%

### Pending Grant Applications (3)

*Title:* CAREER: Language Technologies for The Internet of Things  
*Agency:* NSF  
*Role:* PI  
*Effective Dates:* 05/2016–04/2021  
*Total Amount:* \$539,203  
*UB Amount:* \$539,203  
*Credit of UB Amount:* 100%

## Gifts (1)

*Title:* Expressing Uncertainty Using the Maybe System  
*Agency:* Google  
*Role:* co-PI  
*Effective Dates:* 08/2015–07/2016  
*Total Amount:* \$38,656  
*UB Amount:* \$38,656  
*Credit of UB Amount:* 33.33%

*Title:* Intel Galileo Donation Program  
*Company:* Intel  
*Role:* PI  
*Date Received:* 09/13  
*UB Amount:* 10 Galileo Development Boards  
*Credit of UB Amount:* 100%

## Publications

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To date I have published 7 peer reviewed journal publications, 18 peer reviewed conference publications, 12 peer reviewed workshop publications, and 2 lightly reviewed workshop publications. Based on Google scholar, my work has been cited 365 times resulting in an i-10 index score of 11 and an h-index score of 10. Additionally I have self-published 2 instructional e-books, which are used by Purdue University in their CS177 course. In programming language papers the advisor is typically listed last. When the author list is alphabetical this indicates that all members contributed equally. In the references below \* denotes UB student author. [AR] denotes Acceptance Rate when available.

## Books (2)

- [B1] **Lukasz Ziarek**, Leah Hoffmann, and Christoph Hoffmann. Computing for the Sciences Using Python, Part 1. ASIN: B008KSGL98, Amazon Digital Services, Inc. 2012. (220 pages — ebook)
- [B2] Leah Hoffmann, Christoph Hoffmann, and **Lukasz Ziarek**. Computing for the Sciences Using Python, Part 2. ASIN: B009CXKAOW, Amazon Digital Services, Inc. 2012. (184 pages — ebook)

## Refereed Journals (8)

- [J1] Yin Yan\*, Shaun Gerard Cosgrove\*, Varun Anand\*, Amit Kulkarni\*, Sree Harsha Konduri\*, Steven Y. Ko, **Lukasz Ziarek**. Transactions on Mobile Computing. (to appear, 30 pages)
- [J2] KC Sivaramakrishnan, **Lukasz Ziarek**, and Suresh Jagannathan. MultiMLton: A Multicore-Aware Runtime for Standard ML. Journal of Functional Programming. DOI:10.1017/S0956796814000161, 2015. (62 pages)
- [J3] Ethan Blanton, Puneet Aurora\*, Demian Lessa\*, **Lukasz Ziarek**, and Bharat Jayaraman. Ji.Fi: Visual Test and Debug Queries for Hard Real-Time. Concurrency and Computation: Practice and Experience. DOI: 10.1002/cpe.3156, 2013. (34 pages)
- [J4] KC Sivaramakrishnan, Mohammad Qudeisat, **Lukasz Ziarek**, Karthik Nagaraj, and Patrick Eugster. Efficient Sessions. Science of Computer Programming, Volume 78 Issue 2, 2013. (20 pages)

- [J5] Adrian Holzer, **Lukasz Ziarek**, K.R. Jayaram, and Patrick Eugster. Abstracting Context in Event-based Software. Special Issue for Transactions on Aspect-Oriented Software Development: Modularity in Systems Software, Volume 7271, 2012. (44 pages)
- [J6] **Lukasz Ziarek** and Suresh Jagannathan. Lightweight Checkpointing for Concurrent ML. Journal of Functional Programming, Volume 20, Issue 02, 2010. (36 pages)
- [J7] **Lukasz Ziarek**, Stephen Weeks, and Suresh Jagannathan. Flattening Tuples in an SSA Intermediate Representation. Higher Order and Symbolic Computation, Volume 23, Number 3, 2008. (26 pages)
- [J8] **Lukasz Ziarek**, Phil Schatz, and Suresh Jagannathan. Modular Checkpointing for Atomicity. Electronic Notes in Theoretical Computer Science, Volume 174, Issue 9, 2007. (30 pages)

### Refereed Conference Proceedings (18)

- [C1] Justin Del Vecchio\*, Feng Shen\*, Kenny Yee\*, Boyu Wang\*, Steven Ko, **Lukasz Ziarek** String Analysis for Android Apps. International Conference on Automated Software Engineering — ASE 2014. (6 pages) [AR 23.6%]
- [C2] Oliver Kennedy, Geoffrey Challen, **Lukasz Ziarek** and Jerry Antony Ajay\*. PocketData: The Need for TPC-MOBILE. Seventh TPC Technology Conference on Performance Evaluation & Benchmarking — TPCTC 2015 (16 pages) [AR not available]
- [C3] Oliver Kennedy and **Lukasz Ziarek**. Just-In-Time Data Structures. The biennial Conference on Innovative Data Systems Research — CIDR 2015. (10 pages) [AR not available]
- [C4] Feng Shen\*, Namita Vishnubhotla\*, Chirag Todarka\*, Mohit Arora\*, Babu Prasad\*, Eric Lehner\*, Steve Ko, and **Lukasz Ziarek**. Information Flows as a Permission Mechanism. International Conference on Automated Software Engineering — ASE 2014. (12 pages) [AR 16.3%]
- [C5] Yin Yan\*, Shaun Gerard Cosgrove\*, Varun Anand\*, Amit Kulkarni\*, Sree Harsha Konduri\*, Steven Y. Ko, **Lukasz Ziarek**. Real-Time Android with RTDroid. International Conference on Mobile Systems, Applications, and Services — MobiSys 2014. (14 pages) [AR 13.5%]
- [C6] KC Sivaramakrishnan, **Lukasz Ziarek**, Suresh Jagannathan. Rx-CML: A Prescription for Safely Relaxing Synchrony. Practical Aspects of Declarative Languages — PADL 2014. (16 pages) [AR 40%]
- [C7] Shashank Holavanalli\*, Don Manuel\*, Vishwas Nanjundaswamy\*, Brian Rosenberg\*, Feng Shen\*, Steven Y. Ko, **Lukasz Ziarek**. Flow Permissions for Android. International Conference on Automated Software Engineering — ASE 2013. (6 pages) [AR 17.0%]
- [C8] KC Sivaramakrishnan, **Lukasz Ziarek**, Suresh Jagannathan. A Coherent and Managed Runtime for ML on the SCC. Many-core Applications Research Community Symposium — MARC 2012. **Best Paper** (6 pages) [AR 40%]
- [C9] KC Sivaramakrishnan, **Lukasz Ziarek**, and Suresh Jagannathan. Eliminating read barriers through procrastination and cleanliness. International Symposium on Memory Management — ISMM 2012. (12 pages) [AR 40%]
- [C10] **Lukasz Ziarek**, Siddharth Tiwary, and Suresh Jagannathan. Isolating Determinism in Multi-Threaded Programs. Runtime Verification — RV 2011. (15 pages) [AR 33.8%]



- [C11] **Lukasz Ziarek**, KC Sivaramakrishnan, and Suresh Jagannathan. Composable Asynchronous Events. Programming Language Design and Implementation — PLDI 2011. (12 pages) [AR 23.3%]
- [C12] Adrian Holzer, **Lukasz Ziarek**, K. R. Jayaram and Patrick Eugster. Putting Events in Context: Aspects for Event-based Distributed Programming. International Conference on Aspect Oriented Software Development — AOSD 2011. (12 pages) [AR 21.0%]
- [C13] KC Sivaramakrishnan, Karthik Nagaraj, **Lukasz Ziarek**, and Patrick Eugster. Efficient Session Type Guided Distributed Interaction. International Conference on Coordination Models and Languages — COORD 2010. (16 pages) [AR 42.8%]
- [C14] Filip Pizlo, **Lukasz Ziarek**, Petr Maj, Anthony Hosking, Ethan Blanton, and Jan Vitek. Schism: Fragmentation-Tolerant Real-Time Garbage Collection. Programming Language Design and Implementation — PLDI 2010. (14 pages) [AR 19.9%]
- [C15] Filip Pizlo, **Lukasz Ziarek**, Ethan Blanton, Petr Maj and Jan Vitek. High-level Programming of Embedded Hard Real-Time Devices. EuroSys 2010. (14 pages) [AR 19.1%]
- [C16] **Lukasz Ziarek**, KC Sivaramakrishnan, and Suresh Jagannathan. Partial Memoization of Concurrency and Communication. International Conference on Functional Programming — ICFP 2009. (12 pages) [AR 30.5%]
- [C17] **Lukasz Ziarek**, Adam Welc, Ali-Reza Adl-Tabatabai, Vijay Menon, Tatiana Shpeisman, and Suresh Jagannathan. A Uniform Transactional Execution Environment for Java. European Conference on Object-Oriented Programming — ECOOP 2008. (26 pages) [AR 19.0%]
- [C18] **Lukasz Ziarek**, Phil Schatz, and Suresh Jagannathan. Stabilizers: A Modular Checkpointing Abstraction for Concurrent Functional Programs. International Conference on Functional Programming — ICFP 2006. (12 pages) [AR 32.4%]

### Refereed Workshop Proceedings (13)

- [W1] Muyuan Li\*, Daniel E McArdle\*, Jeffrey C Murphy\*, Bhargav Shivkumar\*, **Lukasz Ziarek** Adding Real-time Capabilities to a SML Compiler. The First IEEE Workshop on Declarative Programming for Real-Time and Cyber-Physical Systems — DPRTCPS 2015. (6 pages)
- [W2] Geoffrey Challen, Jerry Antony Ajay\*, Nick DiRienzo\*, Oliver Kennedy, Anudipa Maiti\*, Anandathirtha Nandugudi\*, Guru Prasad\*, Sriram Shantharam\*, Jinghao Shi\* and **Lukasz Ziarek** maybe We Should Enable More Uncertain Mobile App Programming. The 16th International Workshop on Mobile Computing Systems and Applications — HOT Mobile 2015. (6 pages)
- [W3] Yin Yan\*, Shaun Cosgrove\*, Ethan Blanton, Steve Ko, **Lukasz Ziarek**. Real-Time Sensing on Android. International Workshop on Java Technologies for Real-Time and Embedded Systems — JTRES 2014. (10 pages)
- [W4] Ethan Blanton and **Lukasz Ziarek**. Non-Blocking Inter-Partition Communication with Wait-Free Pair Transactions. International Workshop on Java Technologies for Real-Time and Embedded Systems — JTRES 2013. (10 pages)
- [W5] Yin Yan\*, Sree Harsha Konduri\*, Amit Kulkarni\*, Varun Anand\*, Steve Ko, and **Lukasz Ziarek**. RT-Droid: A Design for Real-Time Android. International Workshop on Java Technologies for Real-Time and Embedded Systems — JTRES 2013. (10 pages)

- [W6] Sumit Agarwal\*, Daniel Bellinger\*, Oliver Kennedy, Ankur Upadhyay\*, and **Lukasz Ziarek**. Monadic Logs for Collaborative Web Applications. International Workshop on the Web and Databases — WebDB 2013 (6 pages).
- [W7] Ethan Blanton, Demian Lessa\*, **Lukasz Ziarek**, and Bharat Jayaraman. JI.FI : Visual Test and Debug Queries for Hard Real-Time. International Workshop on Java Technologies for Real-Time and Embedded Systems — JTRES 2012. (10 pages)
- [W8] **Lukasz Ziarek**. PRP: priority rollback protocol – a PIP extension for mixed criticality systems. International Workshop on Java Technologies for Real-Time and Embedded Systems — JTRES 2010. (6 pages)
- [W9] KC Sivaramakrishnan, **Lukasz Ziarek**, Raghavendra Prasad, and Suresh Jagannathan. Lightweight Asynchrony using Parasitic Threads. Workshop on Declarative Aspects of Multi-Core Programming — DAMP 2010. (10 pages)
- [W10] Filip Pizlo, **Lukasz Ziarek**, and Jan Vitek. Toward Java on Bare Metal with the Fiji VM. Java Technologies for Real-time and Embedded Systems — JTRES 2009. (10 pages)
- [W11] **Lukasz Ziarek**, Suresh Jagannathan, Matthew Fluet, and Umut A. Acar. Speculative N-Way Barriers. Workshop on Declarative Aspects of Multi-Core Programming — DAMP 2009. (12 pages)
- [W12] **Lukasz Ziarek** and Suresh Jagannathan. Memoizing Multi-Threaded Transactions. Workshop on Declarative Aspects of Multi-Core Programming — DAMP 2008. (15 pages)
- [W13] **Lukasz Ziarek**, Phil Schatz, and Suresh Jagannathan. Modular Checkpointing for Atomicity. Multithreading in Hardware and Software: Formal Approaches to Design and Verification 2006. (14 pages)

### Lightly Refereed Workshops with Informal Proceedings (2)

- [WL1] KC Sivaramakrishnan, **Lukasz Ziarek**, and Suresh Jagannathan. Rx-CML: Migrating MultiMLton to the Cloud. Workshop on ML 2013. (2 pages)
- [WL2] Suresh Jagannathan, Armand Navabi, KC Sivaramakrishnan, and **Lukasz Ziarek**. The Design Rationale for Multi-MLton. Workshop on ML 2010. (2 pages)

### Software and Artifacts (6)

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All software artifacts were developed in conjunction with collaborators.

- **Fiji VM**: a real-time Java Virtual Machine (JVM). <http://fiji-systems.com/academia/>. The Fiji VM is in use at 11 universities.
- **RTDroid**: a real-time Android variant consisting of an RTOS, Real-Time JVM, and Real-time framework extensions. [rtdroid.cse.buffalo.edu](http://rtdroid.cse.buffalo.edu).
- **BlueSeal**: a static analysis framework for Android applications. [blueseal.cse.buffalo.edu](http://blueseal.cse.buffalo.edu).
- **MLton**: a standard ML compiler. [www.mlton.org](http://www.mlton.org). MLton is in use at 15 universities.

- **Multi-MLton**: a multi-core aware runtime extension to MLton.  
<http://multimlton.cs.purdue.edu/mML/Welcome.html>. Multi-MLton is scheduled to be incorporated into the mainline MLton compiler.
- **Sting**: an optimizing session type compiler. <https://github.com/kayceesrk/Sting>.

## Talks

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### Invited Talks

1. Data Science in the CS Classroom Resources. "Mobilize Prime." 2014
2. The ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity. "Doctoral Symposium Welcome." 2014
3. GCCIS PhD Colloquium Series. "Debugging Java in Safety-Critical Application Domains," Rochester Institute of Technology. 2013
4. Computer Science for High School, Buffalo State College. "Using Python in the Classroom." 2013
5. The ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity. "Doctoral Symposium Welcome." 2013
6. Computer Science Teachers Association of Western New York Annual Conference. "Using Python in the Classroom." 2012

### Conference Presentations

1. The 2nd International Conference on Runtime Verification. "Isolating Determinism in Multi-threaded Programs." 2011
2. The 32nd ACM SIGPLAN conference on Programming Language Design and Implementation. "Composable Asynchronous Events." 2011
3. The European Professional Society on Computer Systems, Eurosys 2010 Conference. "High-level Programming of Embedded Hard Real-Time Devices." 2010
4. The 8th International Workshop on Java Technologies for Real-time and Embedded Systems. "PRP: Priority Rollback Protocol - A PIP Extension for Mixed Criticality Systems." 2010
5. The 14th ACM SIGPLAN International Conference on Functional Programming. "Partial Memoization of Concurrency and Communication." 2009
6. The 4th Workshop on Declarative Aspects of Multicore Programming. "Speculative N-Way Barriers." 2009
7. The 3rd Workshop on Declarative Aspects of Multicore Programming. "Memoizing Multi-Threaded Transactions." 2008
8. The 22nd European Conference on Object-Oriented Programming. "A Uniform Transactional Execution Environment for Java." 2008

9. The 11th ACM SIGPLAN International Conference on Functional Programming. "Stabilizers: A Modular Checkpointing Abstraction for Concurrent Functional Programs." 2006
10. Multithreading in Hardware and Software: Formal Approaches to Design and Verification. "Modular Checkpointing for Atomicity." 2006