Lukasz Ziarek

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Professional Preparation

University of Chicago	Computer Science	B.S. December 2003
Purdue University	Computer Science	Ph.D. May 2011

Appointments

Assistant Professor, Department of Computer Science and Engineering, SUNY Buffalo.	2012 –
President, Fiji Systems Inc., South Bend, IN.	2010 –
Vice-President, Fiji Systems Inc., Indianapolis, IN.	2009 – 10
Visiting Assistant Professor, Department of Computer Science, Purdue University.	2011 – 12
Research Assistant, Department of Computer Science, Purdue University.	2004 – 11

Publications Closest to Proposal

1. KC Sivaramakrishnan, Lukasz Ziarek, Suresh Jagannathan: **A Coherent and Managed Runtime for ML on the SCC.** *Many-core Applications Research Community Symposium* 2012.

2. Lukasz Ziarek, KC Sivaramakrishnan, and Suresh Jagannathan: **Composable Asynchronous Events.** In *Programming Language Design and Implementation* 2011.

3. Lukasz Ziarek and Suresh Jagannathan: **Lightweight Checkpointing for Concurrent ML.** In *Journal of Functional Programming* 2010.

4. Lukasz Ziarek, KC Sivaramakrishnan, and Suresh Jagannathan: **Partial Memoization of Concurrency and Communication.** In *International Conference on Functional Programming* 2009.

5. Lukasz Ziarek, Adam Welc, Ali-Reza Adl-Tabatabai, Vijay Menon, Tatiana Shpeisman, and Suresh Jagannathan: **A Uniform Transactional Execution Environment for Java.** In *European Conference on Object-Oriented Programming* 2008.

Further Publications

1. 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* 2012.

2. Lukasz Ziarek, Siddharth Tiwary, and Suresh Jagannathan: **Isolating Determinism in Multi-Threaded Programs.** In *Runtime Verification* 2011.

3. Filip Pizlo, Lukasz Ziarek, Ethan Blanton, Petr Maj and Jan Vitek: **High-level Programming of Embedded Hard Real-Time Devices.** In *EuroSys* 2010.

4. Filip Pizlo, Lukasz Ziarek, Petr Maj, Anthony Hosking, Ethan Blanton, and Jan Vitek: **Schism: Fragmentation-Tolerant Real-Time Garbage Collection.** In *Programming Language Design and Implementation* 2010.

5. Lukasz Ziarek, Stephen Weeks, and Suresh Jagannathan: **Flattening Tuples in an SSA Intermediate Representation.** In *Higher Order and Symbolic Computation, Volume 23, Number 3* 2008.

Synergistic Activities

1. Outreach: Member of the Computer Science Teacher's Association.
2. Awards: Halstead Award for Outstanding Research in Software Engineering, 2009; Intel Fellowship, 2008; Department Of Education Graduate Assistance In Areas Of National Need Fellowship, 2004.
3. Program Committees: Java Technologies for Real-time and Embedded Systems, 2010, 2011; Declarative Aspects for Multi-Core Programming, 2012.
4. Journal Referee: Concurrency and Computation Practice and Experience; Software: Practice and Experience.

(Collaborators & Other Affiliations)

Collaborators and Co-Editors

Umut Acar (CMU), Ali-Reza Adl-Tabatabai (Intel), Ethan Blanton (Purdue University, Fiji Systems Inc.), Patrick Eugster (Purdue University), Mathew Fluet (Rochester), Anthony Hosking (Purdue University), Suresh Jagannathan (Purdue University), Bharat Jayaraman (SUNY Buffalo), Demian Lessa (SUNY Buffalo), Petr Maj (Purdue University), Vijay Menon (Google), Filip Pizlo (Apple Inc.), Raghavendra Prasad (Google), Tatiana Shpeisman (Intel), KC Sivaramakrishnan (Purdue University), Jan Vitek (Purdue University, Fiji Systems Inc.), Adam Welc (Oracle)

Graduate Advisors and Postdoctoral Sponsors

Suresh Jagannathan	Purdue University	West Lafayette, Indiana, USA.
Patrick Eugster	Purdue University	West Lafayette, Indiana, USA.
Zihuan Li	Purdue University	West Lafayette, Indiana, USA.
Jan Vitek	Purdue University	West Lafayette, Indiana, USA.