

ABDULLAH MUZAHID

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Research Interests

Parallel computer architecture, programmability of parallel systems, concurrency bug detection, parallel programming models, neural computing

Education

- PhD, August 2006 to July 2012, Department of Computer Science, University of Illinois at Urbana-Champaign (UIUC)
 - Thesis: *Effective architectural support for debugging concurrency bugs*
 - Advisor: Prof. Josep Torrellas
- Master of Science, May 2009, Department of Computer Science, UIUC
- Bachelor of Science, May 2005, Department of Computer Science and Engineering, Bangladesh University of Engineering & Technology (BUET)

Honors

- **W. J. Poppelbaum Award, 2012**
- **Intel PhD Fellowship, 2011**
- **Mavis Future Faculty Fellowship, UIUC, 2011**
- Nominated for Intel PhD Fellowship by UIUC, 2010
- Abbasi Fellowship, UIUC, 2006
- Prime Minister Gold Medal for securing the 1st position in the School of Electrical and Electronics Engineering, BUET, 2006
- University Gold Medal, BUET, 2006
- Sharfuddin Gold Medal, Department of Computer Science and Engineering, BUET, 2006

Publications

- **Conference Papers:**
 - Yuelu Duan, **Abdullah Muzahid**, and Josep Torrellas. WeeFence: Toward Making Fences Free in TSO. *International Symposium on Computer Architecture (ISCA)*, June 2013 (Acceptance Rate 19%).
 - **Abdullah Muzahid**, Shanxiang Qi, and Josep Torrellas. Vulcan: Architectural Support for Dynamically Detecting Sequential Consistency Violations in Programs. *International Symposium on Microarchitecture (MICRO)*, December 2012 (Acceptance Rate 17%).

- Shanxiang Qi, Norimasa Otsuki, Lois Nogueira, **Abdullah Muzahid**, and Josep Torrellas. AsymRace: Tolerating Asymmetric Data Races with Unintrusive Hardware. In *International Symposium on High Performance Computer Architecture (HPCA)*, February 2012 (Acceptance Rate 17%).
- **Abdullah Muzahid**, Norimasa Otsuki, and Josep Torrellas. AtomTracker: A Comprehensive Approach to Atomic Region Inference and Violation Detection. In *International Symposium on Microarchitecture (MICRO)*, December 2010 (Acceptance Rate 17%).
- **Abdullah Muzahid**, Dario Suarez, Shanxiang Qi, and Josep Torrellas. SigRace: Signature-Based Data Race Detection. In *International Symposium on Computer Architecture (ISCA)*, June 2009 (Acceptance Rate 20%).
- **Abdullah Muzahid**, Ahmed Khurshid, Md. Mostofa Akbar, and Masud Karim Khan. Reservation Based Adaptive Uplink Admission Control for WCDMA. In *International Conference on Next Generation Wireless Systems (ICNEWS)*, January 2006.

- **Posters & Workshop Papers:**

- Mohammad Majharul Islam and **Abdullah Muzahid**. Concurrency Characterizing Real World Bugs Causing Sequential Consistency Violations. In *Hot Topics in Parallelism (HotPar)*, June 2013.
- Mejbah Ul Alam, Rehana Begam, Sabidur Rahman and **Abdullah Muzahid**. Concurrency Bug Detection and Avoidance Through Continuous Learning of Invariants Using Neural Networks in Hardware. In *Workshop on Dynamic Analysis (WODA)*, March 2013.
- **Abdullah Muzahid**, Dario Suarez, Shanxiang Qi, and Josep Torrellas. Architectural Support for Detecting Data Races and Atomicity Violations. In *Intel Developer Forum (IDF)*, September 2009.
- **Abdullah Muzahid**, and Le-Chun Wu. Performance Evaluation of Dynamic Thread Balancing in Google's Threading Library. In *Google Summer Intern Project Poster Show*, August 2008.

Professional Experience

- Assistant Professor, UTSA, August 2012 to Current
- Research Assistant, UIUC, August 2007 to July 2012
- Teaching Assistant, UIUC, January 2009 to May 2009 and January 2012 to May 2012
- Intern, Intel Corporation, May 2010 to August 2010
- Intern, Google, May 2008 to August 2008
- Lecturer, Department of Computer Science and Engineering, BUET, June 2005 to July 2006

Services & Extracurricular Activities

- PC member of IPDPS 2013, ICCD 2013, CGO 2014
- Reviewer of HPCA - 2013, 2012, MICRO - 2012, 2010, ISCA - 2012, 2010, ASPLOS - 2011
- Organizer of architecture reading group, UTSA, August 2012 to current
- Member of the Dean's Graduate Student Advisory Committee, UIUC, August 2009 to July 2010
- Organizer of the seminars of the I-ACOMA research group, UIUC, January 2009 to December 2009
- Organizer of the project shows of CSE Day'06 in BUET