

Computer and Information Science Department
University of Pennsylvania
3330 Walnut Street, 614 Levine Hall
Philadelphia, PA 19104

478-719-9281
adhilton@cis.upenn.edu
<http://www.cis.upenn.edu/~adhilton>

Education

- 2004- **PhD Student in Computer Science**
 University of Pennsylvania, Philadelphia, PA
 Advisor: Amir Roth
- 2004 **Masters of Science in Computer Science**
 Georgia Institute of Technology, Atlanta, GA
 GPA: 4.0
 Advisor: Olin Shivers
- 2003 **Bachelors of Science in Computer Science**
 Georgia Institute of Technology, Atlanta, GA
 GPA: 4.0

Positions Held

- 2004- **Graduate Research Assistant**
 Computer and Information Science Department, University of Pennsylvania,
 Philadelphia, PA
- 2009 **Adjunct Professor**
 Ursinus College, Collegeville, PA
- 2007 **Intern**
 Intel Corporation, Hudson, MA
- 2003-2004 **Graduate Research Assistant**
 College of Computing, Georgia Institute of Technology, Atlanta, GA
- 2003 **Intern**
 Software Quality Management Resources, Alpharetta, GA
- 2000-2003 **Teaching Assistant**
 College of Computing, Georgia Institute of Technology, Atlanta, GA
- 2000 **Intern**
 ARINC, Inc. Warner Robins, GA

Honors and Awards

- 2010 Publication selected for IEEE MICRO Top Picks:
 iCFP: Tolerating All-Level Cache Misses in In-Order Processors
- 2008-2009 Graduate Fellow for Teaching Excellence
- 2003 Outstanding Undergraduate

Refereed Conference Publications

BOLT: Energy-Efficient Out-of-Order Latency-Tolerant Execution

Andrew Hilton and Amir Roth.

16th International Symposium on High-Performance Computer Architecture (HPCA), Jan., 2010.

CPROR: Checkpoint Processing with Opportunistic Minimal Recovery

Andrew Hilton, Neeraj Eswaran, and Amir Roth.

18th International Conference on Parallel Architectures and Compilation Techniques (PACT), Sep., 2009.

Decoupled Store Completion/Silent Deterministic Replay: Enabling Scalable Data Memory for CPR/CFP Processors

Andrew Hilton and Amir Roth.

36th International Symposium on Computer Architecture (ISCA), Jun., 2009.

iCFP: Tolerating All-Level Cache Misses in In-Order Processors

Andrew Hilton, Santosh Nagarakatte and Amir Roth.

15th International Symposium on High-Performance Computer Architecture (HPCA), Feb., 2009.

Ginger: Control Independence Using Tag Rewriting

Andrew Hilton and Amir Roth.

34th International Symposium on Computer Architecture (ISCA), Jun. 9-13, 2007.

XChange: Coupling Parallel Applications in a dynamic environment

Hasan Abbasi, Matthew Wolf, Karsten Schwan, Greg Eisenhauer, and Andrew Hilton

6th International Conference on Cluster Computing, Sep. 20-23, 2004.

Refereed Workshop Publications

FIESTA: A Sample-Balanced Multi-Program Workload Methodology

Andrew Hilton, Neeraj Eswaran, and Amir Roth.

5th Workshop on Modeling, Benchmarking, and Simulation, Jun., 2009.

Teaching Experience

Spring 2009	CS 173 (Introduction to Computer Science) at Ursinus College
Spring 2009	CS 274 (Computer Architecture and Organization) at Ursinus College
Spring 2008	CSE 399 (Special Topics: C++) at University of Pennsylvania
Spring 2007	CSE 399 (Special Topics: C++) at University of Pennsylvania
Spring 2006	TA for Amir Roth's CSE371
Fall 2005	TA for Milo Martin's CIS501
2000-2004	TA for CS 1322 (Second intro to programming class, in Java) at Georgia Tech.