

JONATHAN MISURDA

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Professional Interests

Computer Science Education, Software Engineering/Testing, Systems

Positions Held

- Instructor (September 2005 – Present), Department of Computer Science, University of Pittsburgh, Pittsburgh, Pennsylvania.
- Programmer/Intern (June 2000 – August 2000), Silicon Age, Inc., Pittsburgh, Pennsylvania.

Education

- Ph.D. (Expected – April 2010), Computer Science, University of Pittsburgh, Pittsburgh, Pennsylvania.
 - Comprehensive Exam passed January 16, 2008
 - Proposal Defense passed November 25, 2008
- M.S. (April 2005), Computer Science, University of Pittsburgh, Pittsburgh, Pennsylvania.
- B.S. (April 2003), Computer Science, University of Pittsburgh, Pittsburgh, Pennsylvania. Graduated magna cum laude.

Honors & Awards

- Honored by the Center for Instructional Design and Distance Education for “guiding, instructing, and nurturing Teaching Assistants” at the New Teaching Assistant Orientation from 2004 – 2010.
- 2008 Core Undergraduate Course Teaching Award (Highest student evaluation score among faculty teaching a 400-level core course).
- 2005 and 2006 Orrin E. & Margaret M. Taulbee Award for Excellence in Computer Science. Dept. of Computer Science, University of Pittsburgh. (Recognizes teaching excellence and academic progress towards a Ph.D.)
- Nominated to compete for the Elizabeth Baranger Excellence in Teaching Award (A student-nominated award for graduate student teaching.)

Teaching Experience

As an Instructor, University of Pittsburgh (Teaching Effectiveness out of 5.0)

Summer 2009	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 4.54
Spring 2009	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.52
Spring 2009	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.64
Fall 2008	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.23
Fall 2008	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 4.65
Summer 2008	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 4.64
Spring 2007	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.58

Spring 2007	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.26
Fall 2007	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.00
Fall 2007	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 4.38

As a TA/TF, University of Pittsburgh — Primary Instructor

Summer 2007	CS 1550 – <i>Introduction to Operating Systems</i>
Fall 2005 & Fall 2006	CS 0132 – <i>Introduction to C and Guide to the UNIX System</i>
Summer 2006	CS 1590 – <i>Social Implications of Computing Technology</i>
Spring 2006	CS 0004 – <i>Introduction to Programming in Visual Basic</i>
Summer 2004 – Summer 2005	CS 0007 – <i>Introduction to Computer Programming in Java</i>

As a TA, University of Pittsburgh — Recitation Leader

Fall 2004 – Spring 2004	CS 1550 – <i>Introduction to Operating Systems</i>
Summer 2001	CS 0401 – <i>Introduction to Computer Programming in C++</i>

Research Experience

- *Research Assistant* (April 2007–Present), Department of Computer Science, University of Pittsburgh; Supervisor: Dr. Bruce R. Childers.
- *Research Assistant* (May 2005–April 2007), Department of Computer Science, University of Pittsburgh; Supervisors: Dr. Bruce R. Childers and Dr. Daniel Mossé.
- *Research Assistant* (May 2002–May 2005), Department of Computer Science, University of Pittsburgh; Supervisors: Dr. Mary Lou Soffa and Dr. Bruce R. Childers.

Publications

Refereed Conference Publications

- FRAGMENT CACHE MANAGEMENT FOR DYNAMIC BINARY TRANSLATORS IN EMBEDDED SYSTEMS WITH SRATCHPAD (José Baiocchi, Bruce R. Childers, Jack W. Davidson, Jason Hiser and Jonathan Misurda), *International Conference on Compilers, Architecture and Synthesis for Embedded Systems (CASES)*, Salzburg, Austria, October 2007.
- DEMAND-DRIVEN STRUCTURAL TESTING WITH DYNAMIC INSTRUMENTATION (Jonathan Misurda, James Clause, Juliya L. Reed, Bruce R. Childers, and Mary Lou Soffa), *ACM SIGSOFT Int'l. Conference on Software Engineering (ICSE'05)*, St. Louis, Missouri, May 2005. Acceptance rate 14%.
- JAZZ: A TOOL FOR DEMAND-DRIVEN STRUCTURAL TESTING (Jonathan Misurda, Jim Clause, Juliya Reed, Bruce R. Childers, and Mary Lou Soffa) *14th International Conference on Compiler Construction (CC'05)*, Edinburgh, Scotland, April 2005. Acceptance rate 21%.

Refereed Workshop Publications

- INSTRUMENTATION IN SOFTWARE DYNAMIC TRANSLATORS FOR SELF-MANAGED SYSTEMS (Naveen Kumar, Jonathan Misurda, Bruce R. Childers, and Mary Lou Soffa), *ACM SIGSOFT Workshop on Self-Managing Systems (WOSS'04)*, during the *ACM SIGSOFT Conf. on Foundations of Software Engineering*, Newport Beach, California, October 2004.

SOFTTEST: A FRAMEWORK FOR SOFTWARE TESTING OF JAVA PROGRAMS (B. R. Childers, M. L. Soffa, J. Beaver, L. Ber, J. Litman, and J. Misurda) *Eclipse Technology Exchange Workshop during the ACM SIGPLAN Conf. on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA'03)*, Anaheim, California, October 27, 2003.

Technical Reports

FIST: A FRAMEWORK FOR INSTRUMENTATION IN SOFTWARE DYNAMIC TRANSLATORS (N. Kumar, J. Misurda, B. Childers, and M. L. Soffa) *University of Pittsburgh Computer Science Technical Report TR-03-106*, September 2003.

Presentations

Conference Presentations

DEMAND-DRIVEN STRUCTURAL TESTING WITH DYNAMIC INSTRUMENTATION
May 18, 2005. *27th International Conference on Software Engineering*, St Louis, MO.

Teaching Presentations

6 THINGS I LEARNED AS AN UNDERGRADUATE ABOUT TEACHING
Aug. 26, 2009; Aug. 20, 2008; Aug. 22, 2007; Aug. 23, 2006; & Sept. 2, 2005. TA Training Session, Computer Science Department, University of Pittsburgh.

GETTING STARTED (NON-INTERNATIONAL TEACHING ASSISTANTS)
Aug. 28, 2009; Jan. 3, 2009; Aug. 22, 2008; Jan. 3, 2008; Aug. 24, 2007; Jan. 3, 2006; & Aug. 27, 2004. New Teaching Assistant Orientation, University of Pittsburgh.

TESTING AND GRADING
Aug. 28, 2009; Aug. 24, 2007; Aug. 22, 2008; & Sept. 10, 2005. New Teaching Assistant Orientation, University of Pittsburgh.

TEACHING INDEPENDENTLY
Jan. 3, 2009 & Jan. 2, 2007. New Teaching Assistant Orientation, University of Pittsburgh.

DEALING WITH DIFFICULT SITUATIONS
Sept. 12, 2009; Sept. 6, 2008; Sept. 8, 2007; Aug. 26, 2006; and Aug. 26, 2005. New Teaching Assistant Orientation, University of Pittsburgh.

CHEATING AND PLAGIARISM (MATH, NATURAL SCIENCES, AND ENGINEERING)
Sept. 12, 2009; Sept. 6, 2008; Jan. 3, 2009; Sept. 8, 2007; Jan. 21, 2006; Jan. 22, 2005; and Sept. 11, 2004. New Teaching Assistant Orientation, University of Pittsburgh.

Service

- Graduate Evaluation and Assessment of Teaching, 2008–Present
- Editor, LINKS Alumni Newsletter, 2008–Present
- Undergraduate Student Advising, 2007