

JONATHAN MISURDA

Department of Computer Science
University of Pittsburgh
6203 Sennott Square, 210 S. Bouquet St.
Pittsburgh, PA 15260

Voice: (412) 624-8408
Fax: (412) 624-5249
jmisurda@cs.pitt.edu
www.cs.pitt.edu/~jmisurda

Professional Interests

Computer Science Education, Software Engineering/Testing, Systems

Positions Held

- Instructor (September 2007 – 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 – December 2011), 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

Spring 2011	<i>CS 0449 – Introduction to Systems Software</i>	Teaching Effectiveness: 4.48
Spring 2011	<i>CS 1550 – Introduction to Operating Systems</i>	Teaching Effectiveness: 4.59
Fall 2010	<i>CS 0449 – Introduction to Systems Software</i>	Teaching Effectiveness: 4.16
Fall 2010	<i>CS 1550 – Introduction to Operating Systems</i>	Teaching Effectiveness: 4.31
Summer 2010	<i>CS 1550 – Introduction to Operating Software</i>	Teaching Effectiveness: 4.54
Spring 2010	<i>CS 0449 – Introduction to Systems Software</i>	Teaching Effectiveness: 4.50

Spring 2010	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 3.97
Fall 2009	CS 0449 – <i>Introduction to Systems Software</i>	Teaching Effectiveness: 4.68
Fall 2009	CS 1550 – <i>Introduction to Operating Systems</i>	Teaching Effectiveness: 4.66
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. 25, 2010; 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
Jan. 5, 2009; 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; & Aug. 26, 2005. New Teaching Assistant Orientation, University of Pittsburgh.

CHEATING AND PLAGIARISM (MATH, NATURAL SCIENCES, AND ENGINEERING)

Jan. 5, 2009; 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, Assignment & Training Committee, 2008–Present
- Computer Science Day Committee 2001–Present
- Editor, LINKS Alumni Newsletter, 2008–Present
- Undergraduate Student Advising, 2007