Christopher Scaffidi

Curriculum Vitae

Assistant Professor
School of Electrical Engineering & Computer Science
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Oregon State University
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Interests

My interests are in the overlap among software engineering, human-computer interaction, and natural language processing. My present focus is helping end users create custom software so they can enhance their own productivity.

Education

Ph.D. Software Engineering (Sep 2004 – May 2009)
School of Computer Science, Carnegie Mellon University

M.S.E. – Master's Software Engineering (Sep 2004 – May 2006)
School of Computer Science, Carnegie Mellon University

M.A. Physics (Sep 1995 – Dec 1997)
Physics Department, Princeton University

B.S. Mathematics and Physics (Sep 1992 – May 1995)
Mathematics and Physics Departments, University of Wisconsin - Madison

Experience

Assistant Professor (starting Aug 2009)
Oregon State University, School of Electrical Engineering & Computer Science, Corvallis, OR

Ph.D. Graduate Student (Sep 2004 – May 2009)
Carnegie Mellon University, Pittsburgh, PA

Software Engineering Internship (May 2005 – Aug 2005)
Google, New York, NY office

Software Developer (Jan 2001 – Jun 2004)
Princeton Internet Group, Princeton, NJ

Software Developer (Mar 1998 – Jan 2001)
PsyberMetrics / Polaris Health Directions, Langhorne, PA

Ph.D. Graduate Student (Jan 1996 – Feb 1998)
Physics Department, Princeton University, Princeton, NJ

Undergraduate Research Assistant (May 1994 – Aug 1994)
Mathematics Department, University of Wisconsin, Madison, WI

Undergraduate System Administrator (May 1993 – May 1995)
Physics Department, University of Wisconsin, Madison, WI

Teaching

Teaching Assistant (Sep 2006 – May 2006), 17-652: Methods of Software Development
Institute for Software Research, Carnegie Mellon University

Teaching Assistant (Jan 2006 – May 2006), 15-105: Principles of Computation,
Computer Science Department, Carnegie Mellon University

Service

Member of program committee
2010 ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS) (Jun 2010)

Co-chair for Poster/Work-in-progress track
2009 International Symposium on End-User Development (ISEUD) (Mar 2009)

Reviewer for departmental admissions committee (Dec 2007 – Feb 2008)
Institute for Software Research, Carnegie Mellon University

Reviewer for Eberly Academic Advising Award (Dec 2004 – Mar 2005)
Eberly Center for Teaching Excellence, Carnegie Mellon University

Honors and Fellowships

National Science Foundation Graduate Research Fellowship	(1995 – 1998)
University of Wisconsin System Merit Scholarship	(1992 – 1995)
University of Wisconsin Physics Department Albert A. Radtke Award	1995
University of Wisconsin, graduated with Honors and Distinction	1995
Phi Beta Kappa Honor Society	1994
Phi Kappa Phi Honor Society	1994
University of Wisconsin Math Department Irma L. Newman Scholarship	1994
University of Wisconsin Sophomore Honors Research Apprenticeship Fellowship	1994
Mortar Board (Pi Sigma Alpha) Honor Society	1993

Affiliations

IEEE
ACM

Research / Papers

Formally Refereed

1. Chris Scaffidi, Chris Bogart, Margaret Burnett, Allen Cypher, Brad Myers, and Mary Shaw. Predicting Reuse of End-User Web Macro Scripts, *IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 2009), Corvallis, OR, September 2009, to appear.

2. Chris Scaffidi, Brad Myers, and Mary Shaw. Fast, Accurate Creation of Data Validation Formats by End-User Developers. *2nd International Symposium on End-User Development* (ISEUD 2009), March 2009, 242-261.

3. Chris Scaffidi, Brad Myers, and Mary Shaw. Intelligently Creating and Recommending Reusable Reformatting Rules. *Intl. Conf. on Intelligent User Interfaces* (IUI 2009), Sanibel Island, FL, February 2009, 297-306.

4. Andhy Koesnandar, Sebastian Elbaum, Gregg Rothermel, Lorin Hochstein, Kathryn Thomasset, and Chris Scaffidi. Using Assertions to Help End-User Programmers Create Dependable Web Macros. *Proc. 16th ACM SIGSOFT International Symposium on Foundations of Software Engineering* (FSE 2008), Atlanta, GA, November 2008, 124-134.

5. Chris Bogart, Margaret Burnett, Allen Cypher, and Chris Scaffidi. End-User Programming in the Wild: A Field Study of CoScripter Scripts. *IEEE Symposium on Visual Languages and Human-Centric Computing*(VL/HCC 2008), Herrsching am Ammersee, Germany, September 2008, 39-46.

6. Andy Ko, Robin Abraham, Laura Beckwith, Alan Blackwell, Margaret Burnett, Martin Erwig, Joey Lawrence, Henry Lieberman, Brad Myers, Mary Beth Rosson, Gregg Rothermel, Chris Scaffidi, Mary Shaw, and Susan Wiedenbeck. The State of the Art in End-User Software Engineering, Submitted to *ACM Computing Surveys*, Jul 2008.

7. Chris Scaffidi, Brad Myers, and Mary Shaw. Tool Support for Data Validation by End-User Programmers. *International Conference on Software Engineering - Formal Research Demonstrations* (ICSE 2008), Leipzig, Germany, May 2008, pp. 867-870.

8. Chris Scaffidi, Brad Myers, and Mary Shaw. Topes: Reusable Abstractions for Validating Data, *International Conference on Software Engineering* (ICSE 2008), Leipzig, Germany, May 2008, pp. 1-10.

9. Chris Scaffidi, Allen Cypher, Sebastian Elbaum, Andhy Koesnandar, and Brad Myers. Using Scenario-Based Requirements to Direct Research on Web Macro Tools. *Journal of Visual Languages and Computing, Vol. 19*, No. 4, Aug 2008, 485-498.

10. Chris Scaffidi, Allen Cypher, Sebastian Elbaum, Andhy Koesnandar, and Brad Myers. Scenario-Based Requirements for Web Macro Tools. *Proceedings of the 2007 IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 2007), Coeur d'Alene, ID, September 2007, pp. 197-204.

11. Chris Scaffidi. Unsupervised Inference of Data Formats in Human-Readable Notation. *Proceedings of 9th International Conference on Enterprise Information Systems - HCI Volume* (ICEIS 2007), Madeira, Portugal, June 2007, pp. 236-241.

12. Chris Scaffidi, Kevin Bierhoff, Eric Chang, Mikhael Felker, Herman Ng, Chun Jin. Red Opal: Product-Feature Scoring from Reviews. *Proceedings of 8th ACM Conference on Electronic Commerce* (ACMEC 2007), San Diego, CA, June 2007, pp. 182-191.

13. Chris Scaffidi, Andy Ko, Brad Myers, Mary Shaw. Dimensions Characterizing Programming Feature Usage by Information Workers. *Proceedings of the 2006 IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 2006), Brighton, UK, September 2006, pp. 59-62.

14. Chris Scaffidi, Mary Shaw, and Brad Myers. Estimating the Numbers of End Users and End User Programmers. *Proceedings of the 2005 IEEE Symposium on Visual Languages and Human-Centric Computing*(VL/HCC 2005), Dallas, TX, September 2005, pp. 207-214.

Workshops & Posters

1. Chris Scaffidi and Mary Shaw. Inferring Reusability of End-User Programmers' Code from Low-Ceremony Evidence, *End User Programming for the Web Workshop*, at the *Conference on Human Factors in Computing Systems* (CHI 2009), Boston, MA, April 2009.

2. Chris Scaffidi, Chris Bogart, Margaret Burnett, Allen Cypher, Brad Myers, and Mary Shaw. Characterizing Reusability of End-User Web Macro Scripts, Presentation at the Intl. Workshop on Recommendation Sys. for Software Engineering, co-located with FSE 2008, 10 Nov 2008, unpublished.

3. Chris Scaffidi, Allen Cypher, Sebastian Elbaum, Andhy Koesnandar, James Lin, Brad Myers, and Mary Shaw. Using Topes to Validate and Reformat Data in End-User Programming Tools. *Fourth Workshop on End-User Software Engineering* (WEUSE IV), at the *International Conference on Software Engineering* (ICSE 2008), Leipzig, Germany, May 2008, pp. 11-15.

4. Chris Scaffidi and Mary Shaw. Accommodating Data Heterogeneity in ULS Systems. *Second International Workshop on Ultra-Large-Scale Software-Intensive Systems* (ULSSIS 2008), at the *International Conference on Software Engineering* (ICSE 2008), Leipzig, Germany, May 2008, pp. 15-18.

5. Chris Scaffidi, Brad Myers, and Mary Shaw. Toped: Enabling End-User Programmers to Validate Data. *Conference on Human Factors in Computing Systems - Work-in-Progress Posters* (CHI 2008), Florence, Italy, April 2008, pp. 3519-3524.

6. Chris Scaffidi and Mary Shaw. Developing Confidence in Software through Credentials and Low-Ceremony Evidence. *International Workshop on Living with Uncertainties* at the *23rd IEEE/ACM International Conference on Automated Software Engineering* (ASE 2007), Atlanta, GA, November 2007.

7. Chris Scaffidi, Mary Shaw. Toward a Calculus of Confidence. *First International Workshop on the Economics of Software and Computation*, at the *29th International Conference on Software Engineering* (ICSE 2007), Minneapolis, MN, May 2007.

8. Chris Scaffidi, Brad Myers, and Mary Shaw. Challenges, Motivations, and Success Factors in the Creation of Hurricane Katrina "Person Locator" Web Sites, *Psychology of Programming Interest Group Workshop* at 2006 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2006), Brighton, UK, September 2006.

9. Chris Scaffidi, Mary Shaw, Brad Myers. Games Programs Play: Obstacles to Data Reuse, *2nd Workshop on End User Software Engineering (WEUSE)*, at the *Conference on Human Factors in Computing Systems* (CHI 2006), Montreal, Canada, April 2006.

10. Chris Scaffidi, Ashish Arora, Shawn Butler, and Mary Shaw. A Value-Based Approach to Predicting System Properties From Design. *5th Workshop on Economics-Driven Software Engineering Research (EDSER)*, at the *International Conference on Software Engineering* (ICSE 2005), St. Louis, MO, May 2005.

11. Chris Scaffidi, Mary Shaw, and Brad Myers. An Approach for Categorizing End User Programmers to Guide Software Engineering Research. *1st Workshop on End User Software Engineering (WEUSE)*, at the *International Conference on Software Engineering* (ICSE 2005), St. Louis, MO, May 2005.

Doctoral Symposia

1. Chris Scaffidi. A Lightweight Model for End Users' Data: Progress and Future Work. Doctoral Consortium at *IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 2007), Coeur d'Alene, ID, September 2007, pp. 268-269.

2. Chris Scaffidi. A Data Model to Support End User Software Engineering. *Companion to Proc. 29th International Conference on Software Engineering* (ICSE 2007), Minneapolis, MN, May 2007, pp. 79-80.

3. Chris Scaffidi. A Lightweight Model for End Users' Domain-Specific Data. Doctoral Consortium at *IEEE Symposium on Visual Languages and Human-Centric Computing* (VL/HCC 2006), Brighton, UK, September 2006, pp. 242-243.

Technical Reports

1. Chris Scaffidi, Brad Myers, and Mary Shaw. *The Topes Format Editor and Parser*. Technical Report CMU-ISRI-07-104 / CMU-HCII-07-100, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, May 2007.

2. Chris Scaffidi, Allen Cypher, Sebastian Elbaum, Andhy Koesnandar, and Brad Myers. *The EUSES Web Macro Scenario Corpus, Version 1.0.* Technical Report CMU-HCII-06-105, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, November 2006.

3. Chris Scaffidi. *Application of a Probability-Based Algorithm to Extraction of Product Features from Online Reviews*. Technical Report CMU-ISRI-06-111, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, June 2006.

4. Chris Scaffidi, Andy Ko, Brad Myers, Mary Shaw. *Identifying Categories of End Users Based on the Abstractions That They Create*, Technical Report CMU-ISRI-05-110/CMU-HCII-05-101, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, December 2005.

5. Mary Shaw, Ashish Arora, Shawn Butler, Vahe Poladian, and Chris Scaffidi. *In Search of a Unified Theory for Early Predictive Design Evaluation for Software* . Technical Report CMU-ISRI-05-114, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, May 2005 (Revised Oct 2005).

6. Chris Scaffidi, Mary Shaw, and Brad Myers. *The "55M End user Programmers" Estimate Revisited.* Technical Report CMU-ISRI-05-100/CMU-HCII-05-100, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, February 2005.

Book/Magazine Contributions

1. Chris Scaffidi, Brad Myers, and Mary Shaw. Trial By Water: Creating Hurricane Katrina "Person Locator" Web Sites. In *Leadership at a Distance: Research in Technologically-Supported Work* (S. Weisband, ed), Lawrence Erlbaum Publishers, Mahwah, NJ, July 2007, pp. 209-222.

2. Chris Scaffidi. Why Are APIs Difficult To Learn and Use? *ACM Crossroads*, Vol. 12.4, May 2006, pp. 4-9.

3. Chris Scaffidi. *Preparing for Graduate School Examinations in Computer Science*, (ISBN 0972732446), 117 pgs, ____, 2006.