

John M. Daughtry III

Curriculum Vitae

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Summary

A PhD Candidate with an interdisciplinary research trajectory, a broad multidisciplinary education in the computational and information sciences, significant industry experience (including full-time work as a software engineer while engaged in graduate studies), and some experience planning curriculum and teaching upper-level undergraduate courses.

Research Interests

Human Computer Interaction and Software Engineering.

Social and Collaborative aspects of Programming and the Psychology of Programming.

API Design and Usability.

Education

The Pennsylvania State University

Expected 2010

Ph.D. Information Sciences and Technology

Advisor: Dr. John M. Carroll

Dissertation: *Naming in API Design*

The Pennsylvania State University

Aug. 2006

M.S. in Information Sciences and Technology

Advisor: Dr. John M. Carroll

Thesis: *Enabling Use: The Effects of Scenarios and Claims on the Self-Efficacy of Using Application Program Interfaces*

North Carolina State University

May 2003

B.S. in Computer Science

Minor: Piano Performance

Awards and Honors

Raytheon Individual Achievement Award (2004, 2005, 2006)

NC State Donald Bitzer Undergraduate Award for Creativity (2003)

Upsilon Pi Epsilon, Computer Science Honor Fraternity (2002)

Eagle Scout (1994)

Relevant Professional Experience

The Pennsylvania State University Oct. 2006 - Present

Associate Research Engineer, The Applied Research Laboratory

- Designing and developing prototype large-scale analyst tools such as multi-sensor data fusion and text analysis environments
- Recruited for two-month away assignment supporting cave and touch table systems at JITAF-S in Key West, FL

Raytheon Co.

Jan. 2004 – Oct. 2006

Software Engineer I and II, Intelligence and Information Systems

- Led the software integration and test team in spiral three of a large information infrastructure program after having served as a key developer in the first two spirals
- Spearheaded build scripts, installation process, and infrastructure components such as logging and auditing

Schoollink, Inc.

Oct. 2000 – Jan. 2001

Programmer

- Designed and developed a new web-portal for secondary schools

Absolute Business Solutions

Jan. 2000 – Oct. 2000

Programmer

- Rewrote error handling for entire product line
- Managed existing code-base and key customer relationships while the product line received a major overhaul
- Performed on-site system installations, upgrades, and debugging

Walt Disney World College Program

May 1999 – Aug. 1999

- Worked as a lifeguard at Blizzard Beach Water Park
- Complete Ducktorate in Management: Disney Style at Disney University

Teaching Experience

Instructor, The Pennsylvania State University

Aug. 2008 – Present

IST 311: *Object-Oriented Design and Development* (Fall 2008)

IST 496: *Independent Studies* – one student – software engineering (Spring 2009)

Guest Lecturer, The Pennsylvania State University

Aug. 2007

IST 311: *Object-Oriented Design and Development* (Fall 2007)

Lab Instructor, North Carolina State University

Jan. 2001 – May 2003

CSC 326: *Software Engineering* (Instructor: Dr. Annie Anton)

CSC 116: *Introduction to Programming* (Instructor: Laurie Williams)

CSC 116: *Introduction to Programming* (Instructor: Carol Miller)

Publications

Journal/Magazine Articles

1. J.B. Gross, **J.M. Daughtry**, and J.C. Lee. "Heurists of the World Unite! Connecting Agile Methods and Scenario-Based Design". *Agile Journal*, February 2008.

Full Conference Papers (refereed)

2. T.G. Kannampallil, and **J.M. Daughtry**. "Handling objects: a scenario based approach". *Proceedings of SIGDOC 2006: Design of Communication*. Myrtle Beach, SC, October 18-20, 2006. 92-98.

Minor Papers (refereed)

3. **J.M. Daughtry**, J. Stylos, U. Farooq, B.A. Myers. "API Usability: CHI'2009 Special Interest Group Meeting". Extended Abstracts, CHI'2009, Boston, MA, April 4-9, 2009.
4. **J.M. Daughtry**, and R. St. Amant. "Power Tools and Composite Tools: Integrating Automation into Direct Manipulation Interfaces". *Proceedings of IUI 2003: Intelligent User Interfaces*. Miami, FL, January 12-15, 2003. 233-235.

Technical Reports and Reviews

5. **J.M. Daughtry**, U. Farooq, B. Myers, J. Stylos. "API Usability: Report on Special Interest Group at CHI" *Software Engineering Notes*, 34(3), July 2009.
6. **J.M. Daughtry**, J. Burge, J.M. Carroll, and C. Potts. "Creativity and Rationale in Software Design" *Software Engineering Notes*, 34(1), January 2009, 27-29.
7. **J.M. Daughtry**, and F.E. Ritter. "Understanding the Behavior of Agents and Cognitive Models: CaDaDis 2.1.". *Artificial Intelligence and Simulated Behaviour Quarterly*, No. 119 Winter 2005. 4.
8. **J.M. Daughtry**, T.G. Kannampallil: review "Refactoring to Patterns", in *Journal of Object Technology*, 4(4), May-June 2005, 193-196.

Presentations, Panels, and Non-Refereed Minor Papers

9. **J.M. Daughtry** "What Information Do Developers Need?" Boaster at the *Human Computer Interaction Consortium (HCIC)*, Fraser, CO USA. 2007
10. P.J. Ayoub, **J.M. Daughtry**, M.R. Peters "Navigating Design Research: A Pragmatic Approach" Presentation at *Connections 2007*, the information sciences doctoral conference, Philadelphia, PA USA. 2007.
11. **J.M. Daughtry** Panel on communities managing knowledge. The Penn State IST Graduate Symposium, University Park, PA USA. 2007.

Theses

12. **J.M. Daughtry**, *Enabling Use: The Effects of Scenarios and Claims on the Self-Efficacy of Using Application Program Interfaces*, Master's Thesis in Information Sciences and Technology, The Pennsylvania State University, August 2006.

Service

Reviewer for the International Conference on Information Systems	2009
Reviewer for Creativity and Cognition	2009
Administrating www.apiusability.org and the associated list-serve	2009
Reviewer for Symposium on Visual Languages and Human-Centric Computing	2009
Reviewer for International Symposium on End User Development	2009
Organizing Committee for the Penn State IST Graduate Symposium	2008
Helped Plan NSF-Sponsored Workshop on Design Rationale and Creativity	2008
Reviewer for iConference	2008
Reviewer for Transactions on Computer-Human Interaction	2003, 2007
Volunteer for International Conference on Intelligent User Interfaces	2003
Volunteer for eXtreme Universe (later became the Agile/XP Universe conf.)	2001

Other

Active TS/SCI Clearance with CI and full-scope polygraph (2004 – Present)
Member of ACM (2003 – Present)
Travel across the US and to Australia, Germany, Italy, Greece, and Ireland
Hobbies include home renovation, travel, and board games