

Heather Mahaney Hutchings

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RESEARCH INTERESTS

My research interests lie at the intersection of Human-Computer Interaction and Ubiquitous Computing. Specifically, I focus on enabling users to easily coordinate their activities across multiple computing devices. I am developing a framework to enable designers to create interfaces which divide across multiple devices to take advantage of their I/O resources.

EDUCATION

Georgia Institute of Technology 2002 - Present

Ph.D. student

Area: Human-Computer Interaction, Mobile and Ubiquitous Computing

Advisors: Jeffrey S. Pierce, Gregory D. Abowd

Washington and Lee University 1998 - 2002

Bachelor of Science, Computer Science and Mathematics, Magna Cum Laude

Major GPA 4.0/4.0 Overall GPA 3.8/4.0

RESEARCH EXPERIENCE

Graduate Research Assistant, Georgia Institute of Technology 1/2003 - Present

Advisor: Jeffrey S. Pierce

Developing tools to enable users to annex input and output resources with their personal devices. Ongoing activities include user studies, system design, and interface development.

Research Intern, Mission Critical Technologies, NASA Ames Research Center 5/2004 – 8/2004

Host: David Curbow

Researched tools for developing interfaces for multiple platforms, and infrastructures for supporting multi-device applications.

Robert E. Lee Research Scholar, Washington and Lee University 6/1999 - 8/1999

Advisor: Thomas Whaley

Assisted in redesigning algorithm animation software for introductory computer science courses. Developed language for specifying algorithms and implemented system model.

ACADEMIC EXPERIENCE

Graduate Teaching Assistant, Georgia Institute of Technology 8/2002 – 12/2002

Course: Computer Science for Bioinformatics (CS 4710)

Supervisor: Monica Sweat

Developed class content, lectured, and graded assignments for Perl language laboratory.

Teaching Assistant, Washington and Lee University 9/1999 – 12/2001

Courses: Introduction to Computer Science I, II

Supervisor: Thomas Whaley

Assisted professor in introductory laboratory sessions and graded laboratory assignments.

PUBLICATIONS

Pierce, J. S., Mahaney, H. E. (2004) **“Opportunistic Annexing for Handheld Devices: Opportunities and Challenges.”** *The Human-Computer Interaction Consortium (HCIC 2004)*. Fraser, CO.

Mahaney, H. E., Pierce, J. S. (2003) **“Opportunistic Awareness: Annexing Peripheral Devices for Information Monitoring.”** Position paper and Presentation for the Workshop on Multi-Device Interfaces for Ubiquitous Peripheral Interaction at *The Conference on Ubiquitous Computing (UBICOMP 2003)*. Seattle, WA.

HONORS, AWARDS AND SCHOLARSHIPS

- NSF Graduate Research Fellowship – Honorable Mention
- Georgia Tech Presidential Fellowship
- Phi Beta Kappa Honor Society
- Phi Eta Sigma Mathematics Honor Society (President)
- Dean’s List, Washington and Lee University
- Francis B. Gaines Honor Scholarship, Washington and Lee University

COMMUNITY ACTIVITIES

Conference Paper Reviewer

- MobiSys 2004

Conference Student Volunteer

- UbiComp 2003
- UIST 2004

Intel Opportunity Scholars Mentor

This program focuses on increasing minority participation in computer science. I serve as research advisor and mentor to two undergraduate students.

GT College of Computing Graduate Student Committee

Work with a team of Georgia Tech College of Computing graduate students who address administrative issues relevant to the student community.

GT Women@CC Advisory Board

Founding member of women’s group in the Georgia Tech College of Computing who coordinate activities to build community and educate young women about opportunities in computing.

ACM Member

Student member of the Association for Computing Machinery

SKILLS

J2ME, Java, Jython, Python, Perl, HTML, XML, .NET Framework/Compact Framework

REFERENCES

Available upon request