

TRACY L. WESTEYN

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EDUCATION

- | | | |
|-------------------|--|--|
| 01/2002 – Present | Georgia Institute of Technology
Grade Point Average: 3.98 (4.00 scale)
Specialization: intelligent systems and on-body sensing
Minor: experimental research design for mobile technology | Ph.D. Computer Science
(Anticipated, Dec 2008) |
| 01/2001 – 05/2005 | Georgia Institute of Technology
Grade Point Average: 3.97 (4.00 scale)
Areas of Specialization: intelligent systems | M.S. Computer Science
(Awarded, May 7, 2005) |
| 10/1996 – 12/2000 | Georgia Institute of Technology
BSCS degree awarded with highest honors and cooperative seal.
Grade Point Average: 3.84 (4.00 scale)
Areas of Specialization: artificial intelligence and human-computer interaction | B.S. Computer Science
(Awarded, December 16, 2000) |

EMPLOYMENT

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|-------------------|--|---|
| 05/2001 – Present | Graduate Research Assistantship
Employed as a graduate research assistant for the Contextual Computing Group. Advised by Dr. Thad Starner. Research projects involve wearable computing, on-body sensing, machine learning, and assistive technology research. Duties include researching previous work, applying new techniques, performing user studies, advising Masters and undergraduate students, and writing academic papers. | Georgia Tech
Atlanta, GA |
| 06/2006 | Temporary Instructor
Employed as instructor for the NSF funded CyberTech-ITEST CyberTech II program. Duties included lecturing to a class of 18 students for 5 hours a day, preparing lectures, creating in-class assignments, grading assignments, selecting honor students, and daily staff meetings. | Kennesaw State University
Kennesaw, GA |
| 05/2004 – 08/2004 | International Research Internship
Employed as a graduate research assistant for an international collaboration between the Contextual Computing Group of Georgia Tech and UMIT, Austria. Advised by Dr. Paul Lukowicz. | University of Medical Informatics Tirol
Innsbruck, Austria |

06/2002 – 12/2002	International Research Assistantship Swiss Federal Institute of Technology Zurich, Switzerland Employed as a graduate research assistant for a joint collaboration between the CCG of Georgia Tech and the IFE of the Swiss Federal Institute of Technology (ETH), Zurich. Advised by Dr. Gerhard Troster, projects involved wearable computing and gesture recognition.
01/1999 – 05/2001; 2002	Teaching Assistantships College of Computing, Georgia Tech Atlanta, GA Employed as both an undergraduate and graduate teaching assistant for “Introduction to Instruction Set Architecture and Machine Level Programming,” “Languages and Translation,” and “Introduction to Artificial Intelligence.” Duties included guest lecturing; holding weekly recitations, labs, and office consultations; creating new course material; proctoring; assisting in exam writing; grading exams; and grading student assignments.
09/1997 – 12/1999	Co-op Student Research Assistant Georgia Tech Research Institute Atlanta, GA Employed as a co-op student research assistant in the Electro-Optical Environmental Material Laboratory Intelligent Machines Branch. Duties included maintaining and extending existing code in ongoing projects, working in small groups to design and document new software features, and reviewing code written by group members. Responsible for testing code, documenting bugs, and conducting on-site field trials.

PUBLICATIONS

Journals & Magazines

- J. Kientz, G. Hayes, T. Westeyn, T. Starner, and G. Abowd. Pervasive Computing and Autism: Assisting Caregivers of Children with Special Needs. *Special Issue on Pervasive Computing in Healthcare*, Jan-Mar, 2007
- T. Starner, B. Leibe, D. Minnen, T. Westeyn, A. Hurst, and J. Weeks. The Perceptive Workbench: Computer-vision-based gesture tracking, object tracking, and 3D reconstruction for augmented desks. *Machine Vision Applications*, 14(1):59–71, 2003

Refereed Conferences

- T. Westeyn, P. Presti, and Thad Starner. ActionGSR: A Combination Galvanic Skin Response–Accelerometer for Physiological Measurements in Active Environments. In *Tenth IEEE International Symposium on Wearable Computers (ISWC 2006)*. 2006
- T. Westeyn, K. Vadas, X. Bian, T. Starner, and G. D. Abowd. Recognizing Mimicked Autistic Self-Stimulatory Behaviors Using HMMs. In *Ninth IEEE International Symposium on Wearable Computers (ISWC 2005)*, pages 164–169. 2005. ISBN 0-7695-2419-2
- T. Westeyn and T. Starner. Recognizing Song-Based Blink Patterns: Applications for Restricted and Universal Access. In *Sixth IEEE International Conference on Automatic Face and Gesture Recognition (FGR 2004)*, pages 717–722. IEEE Computer Society, 2004
- T. Westeyn, H. Brashear, A. Atrash, and T. Starner. Georgia Tech Gesture Toolkit: supporting experiments in gesture recognition. In *Proceedings of the 5th International Conference on Multimodal Interfaces, (ICMI 2003)*, pages 85–92. ACM, 2003. ISBN 1-58113-621-8

Abstract-Refereed

- K. Lyons, H. Brashear, T. Westeyn, J. Kim, and T. Starner. GART: The Gesture and Activity Recognition Toolkit. In *HCI International (to appear)*. 2007
- D. Minnen, T. Westeyn, T. Starner, J. Ward, and P. Lukowicz. Performance Metrics and Evaluation Issues for Continuous Activity Recognition. In *PerMIS Workshop*. 2006
- D. Ashbrook, T. Westeyn, and T. Starner. Dancing in the Streets: Smartphones and Gaming. In *Workshop on Ubiquitous Entertainment and Games at UbiComp*. 2005
- T. Westeyn, P. Pesti, K. Park, and T. Starner. Biometric Identification using Song-Based Eye Blink Patterns. In *Human Computer Interaction International (HCII 2005)*. 2005

Book Chapters

- M. Gandy, T. Westeyn, H. Brashear, and T. Starner. Wearable Systems Design Issues for the Elderly and Disabled. In A. Helal, M. Mokhtari, and B. Abdulrazak, editors, *Smart Technology for Aging, Disability, and Independence*, volume 2. Wiley, In Press 2007

LEADERSHIP

<i>08/2006 – Present</i>	Grad Women@cc Co-coordinator	Georgia Tech
<i>08/2004 – 08/2006</i>	Grad Women@cc Advisory Board Membership Chair	Georgia Tech
<i>08/2004 – Present</i>	CoC Graduate Student Council Women's Programs Representative	Georgia Tech
<i>07/2005 – 10/2005</i>	Co-Organized On-Body Sensing Workshop	ISWC 2005
<i>08/2004 – 09/2005</i>	Women@cc Roadshow Member (Minorities in Computing Outreach)	Georgia Tech
<i>01/2003 – 12/2005</i>	Undergraduate/Masters Research Mentor	Georgia Tech
<i>9/1998 – 5/2002</i>	Women's Lacrosse Club (President 2001 – 2002)	Georgia Tech
<i>1999 – Present</i>	Shaolin Kung Fu & Tai Chi Student (Black Belt) and Assistant Instructor	Georgia Tech

HONORS

<i>Awarded 2006</i>	Google's Anita Borg Scholarship	Google
<i>12/2004</i>	Finalist for National PEO Scholar Award	Georgia Tech
<i>Awarded 2004</i>	Graphics, Visualization, and Usability Seed Grant	Georgia Tech
<i>03/2003 – Present</i>	Theta Chapter of Upsilon Pi Epsilon, founding member	Georgia Tech
<i>1998; 1999; 2000</i>	Faculty Honors (4.0 GPA)	Georgia Tech
<i>05/1999 – Present</i>	Golden Key Honor Society	Georgia Tech

SERVICE

<i>2002; 2005</i>	Women's Self-Defense Seminar	Shaolin Center Schools, Atlanta
<i>01/2005 – 04/2005</i>	Relay for Life Fund Raiser	American Cancer Society
<i>09/2001</i>	Fund-Raising and Recruitment	American Red Cross