

# Aman Parnami

Georgia Institute of Technology  
School of Interactive Computing  
75 5th Street Atlanta, GA 30318

☎ (404) 935-3615  
✉ [aparnami3@gatech.edu](mailto:aparnami3@gatech.edu)  
🌐 <http://amanparnami.com>

## Education

### Georgia Institute of Technology, Atlanta, USA

- Ph.D. Computer Science (Human-Computer Interaction), (starting) August 2013
- M.S. Human-Computer Interaction, May 2013, GPA: 4.0
- Advised by Dr. Gregory D. Abowd and Dr. Ali Mazalek

### Indian Institute of Technology, Mumbai, India

- B.Tech & M.Tech. Computer Science, 2008

## Fields of Research Interest

Mobile and Ubiquitous Computing, Sensors, Natural User Interfaces, Tangible User Interfaces

## Research Experience

### VersTang: Changeable Tangibles, Advisor: Dr. Ali Mazalek, January–May 2013

- Fabricated dynamic tangibles that change identity, sense context of use, and provide appropriate feedback on runtime.

### ARubi, Advisor: Dr. Gregory D. Abowd, Dr. Thad Starner, January–April 2013

- Conceptualized and created a tool to facilitate programming of environments through the lens of an augmented reality interface.

### Activity Recognition In-The-Wild, Advisor: Dr. Gregory D. Abowd, November 2012–present

- Assisted with the work on inferring eating activity from first person point-of-view images and sensor data collected on a wearable device.

### BackTap, Advisor: Dr. Gregory D. Abowd, May 2012–March 2013

- Developed novel interactions on the back case of a smartphone with the existing sensors on the device.
- Conducted evaluation with 24 participants.
- Submitted poster to UIST 2013.

### Tangible Anchoring, Advisor: Dr. Ali Mazalek, August 2011–present

- Designed tangible interactions, information visualizations, and scenarios for this novel approach of news broadcast through a tabletop.
- Conducting an user evaluation.

### Vibrodirection, Advisor: Dr. Jenny Singleton, January–June 2012.

- Conceptualized a wearable system (belt) that provides a vibro-tactile feedback indicating direction and a facility to log experiments through accompanying Android app.
- Developed system is being used by a deaf experimenter in a study gaze tracking of infants.

### SciSketch, Advisor: Dr. Ali Mazalek, January–April 2012

- Contributed to the web-based front-end and prototyping of IR pens for a tabletop tool for sketch-based problem-driven collaborative learning.

**Building Vision Based Applications of ProCams**, *Advisor: Dr. Sharat Chandran*, 2007–2008

- Developed a 3D shooting range simulator for soldiers using an off-the-shelf web camera and a projector.
- Examined the use of off-the-shelf cameras to replace the specialized hardware for automating correction of a projection on a non-ideal surface.

**Energy Conservation For Adults**, *Advisor: Dr. James D. Foley*, January–April 2012

- Administered surveys that informed designs of three prototypes of ambient displays which were then tested with a sample of target population.

## Peer Reviewed Articles

Edison Thomaz, **Aman Parnami**, Jonathan Bidwell, Irfan Essa, Gregory D. Abowd. *Technological Approaches for Addressing Privacy Concerns When Recognizing Eating Behaviors with Wearable Cameras*. Ubicomp '13: Proceedings of the 15th international conference on Ubiquitous Computing.

Nithya Manickam, **Aman Parnami**, and Sharat Chandran (2006). *Reducing false positives in video shot detection using learning techniques*. In Proceedings of the 5th Indian conference on Computer Vision, Graphics and Image Processing (ICVGIP'06), Springer-Verlag, Berlin, Heidelberg, 421-432.

## Awards, Honors &amp; Scholarships

**Completion Certificate**, Google Summer of Code, Google, 2008

**Winner**, Google Product Prodigy Contest, Google, 2008

**Third place**, Lord of the Code, RedHat Scholarships, 2007 & 2008

**Institute Sports Special Mention**, Athletics, Indian Institute of Technology, 2004

## Professional Experience

**Interaction Design Intern**, Mobile and Communications Group, Intel, May 2013–present

- Survey existing interactions and gestures on mobile devices and devise new ones along with an analysis of impact on platform architecture.

**Research Assistant**, Georgia Institute of Technology, August 2011–May 2013

- Enable new interactions using embedded and environmental sensors.
- Build applications for mobile devices and interactive tabletops.

**Interaction Designer**, Self Employed, November 2010–June 2011

- Architected a Customer Relationship Management tool for the sales team of a startup.
- Advised design and development teams remotely of another startup in Michigan.

**Usability Consultant**, Standard Chartered Bank, August 2008–July 2010

- Initiated user-centered design process in the development of financial applications for web and mobile.
- Guided visual designers, prototypers and developers.

**Research Assistant**, Indian Institute of Technology, May 2007–July 2008

- Worked on an Indian army sponsored project to develop a 3D shooting range simulator.

**Teaching Assistant**, Indian Institute of Technology, Summer 2006

- Assisted students and graded assignments for the introduction to object oriented programming course.

## Skills

**Data Gathering:** Contextual Inquiry, Focus Groups, Persona, Scenarios

**Evaluation:** Cognitive Walkthrough, Heuristic Analysis, Think Aloud, Interviews

**Prototyping:** Adobe Creative Suite, Sketching, Powerpoint, Balsamiq, Axure

**Development:** Visual Studio, Eclipse, XCode

**Languages:** HTML5, CSS, Javascript, PhP, Java, Python, Processing, C#

**Mobile:** Android

**Hardware:** Arduino, ZigBee, 3D Modeling, Laser Cutting, Shop Tools, Circuit Mill

## Service

**Student Volunteer,** CHI, 2012

**Institute Student Mentor,** Indian Institute of Technology, Mumbai, 2006–2007

- Mentored 30+ freshmen, giving counsel and helping them adjust smoothly to campus life and make the best of their first year.

**Presentation:** Wireframing tools , *Intro. to HCI* course, February 2012

**Workshop:** Arduino for beginners, Aware Home Seminar, February 2012

**Workshop:** HTML and CSS, Teach and Learn HCI Seminar, September 2012

## Other Activities

**Cross Country Running,** *Silver Medalist*, 2004–2005

- Two times silver medalist in 5K racing events at Inter IIT Sports Meet.
- Recognized for consistently securing top two positions in inter-hostel athletic events.

**Dance**

- Trained in Bharatnatyam, Indo-Jazz, and Hip Hop to an intermediate level.
- Selected by a Bollywood choreographer amongst top 100/1500+ students training at his institute.

Last updated: July 1, 2013