The UbiComp 2013 Doctoral School

Elaine M. Huang  
Department of Informatics  
University of Zurich  
Binzmühlestrasse 14  
Zurich, Switzerland  
huang@ifi.uzh.ch

Timo Ojala  
University of Oulu  
Department of Computer Science and Engineering  
P.O. Box 4500  
FIN 90014 University of Oulu  
Finland  
timo.ojala@ee.oulu.fi

About the event
We are pleased to introduce the inaugural UbiComp 2013 Doctoral School, an exciting event designed to support and strengthen the community of student researchers by facilitating networking, providing mentoring, and fostering the exchange of ideas and knowledge.

The Doctoral School builds upon previous UbiComps’ Doctoral Consortium event, expanding the long-held traditional event into a two-day research and career forum that includes doctoral students at both the junior and senior levels.

We have retained many of the aspects that have made the Doctoral Consortium a successful and popular event in the past, including the participation of world-class UbiComp researchers from academia and industry to serve as faculty panelists, and the opportunity for students who are approaching the later stages of their PhDs to receive direct feedback on their completed and remaining research. In addition this year’s Doctoral
School offers new activities and content, such as keynote talks from internationally renown researchers, a research Q&A panel, a career Q&A panel, and a poster session for junior students to receive feedback on their planned PhD work and early results. The inclusion of both junior and senior students facilitates greater networking, and further opportunities for peer feedback.

The Doctoral School is a substantially larger event than previous Doctoral Consortia both in terms of attendees, faculty panelists, and content. The Doctoral School co-chairs would therefore like to thank the many people whose efforts have contributed to providing this event for the UbiComp doctoral students, including the conference organizers and conference committee, and the student volunteers. We would especially like to thank the faculty panelists and speakers who have generously given of their time to help foster the research and careers of the doctoral students.

The 2013 UbiComp Doctoral School accepted submissions in both a junior and senior PhD student category and were assessed and decided separately. We accepted a total of 9 students at the senior level based on these abstracts, and 25 students at the junior level.

**Senior Students**
Eva Ganglbauer, Vienna University of Technology, Austria  
*Human Food Waste Interaction: Design Sensitivities for Technology*

Guido Gioberto, University of Minnesota, USA  
*Measuring Joint Movement Through Garment-Integrated Wearable Sensing*

Gunnar Harboe, University of Zurich, Switzerland  
*Understanding and Augmenting a Paper Arrangement-Based Method*

Jisoo Lee, Arizona State University, USA  
*Supporting Self-Experimentation of Behavior Change Strategies*

Lars Müller, FZI Research Center for Information Technology, Germany  
*Pervasive Monitoring to Support Reflection Learning*

David T. Nguyen, College of William and Mary, USA  
*Evaluating Impact of Storage on Smartphone Energy Efficiency*

Andrew Quitmeyer, Georgia Institute of Technology, USA  
*Digital Naturalism: Interspecies Performative Tool Making for Embodied Science*

Edison Thomaz, Georgia Institute of Technology, USA  
Practical Food Journaling

Chenren Xu, Rutgers University, USA  
*Device-Free People Counting and Localization*

**Junior Students**
Saeed Abdullah, Cornell University, USA  
*Clockwise: Inferring Chronotype and Daily Patterns from Smartphone Use*
Anja Bachmann, Karlsruhe Institute of Technology, Germany
Process Mining and Activity Recognition on Mobile Devices using Crowdsourcing and User Information from the Cloud

Jacky Bourgeois, The Open University, UK
Sustainable Load Shifting in the Context of Domestic Energy Generation

Artem Dementyev, University of Washington, USA
Unconventional Applications of Radio Frequency Identification (RFID)

Erion Elmasllari, Fraunhofer FIT Institute, Germany
Designing UbiComp Infrastructure for Deployment in Life-Critical Environments

Daniel Epstein, University of Washington, USA
Improving Personal Informatics Through Social Sharing

Pedro. J. Freire, Universidade Lusófona, Portugal
Providing Best-of-Breed User Experiences Across Pervasive Systems

Samuli Hemminki, Helsinki Institute for Information Technology, Finland
Transportation Behavior Sensing Using Smartphones

Sen Hirano, University of California Irvine, USA
Supporting Novice Cooks through Sensor-Enhanced Computing Technology

Michael Hölzl, UAS Upper Austria, Austria
Towards an Open Ecosystem for Embedded Tamper Resistant Hardware in Mobile Devices

Rohit Ashok Khot, RMIT University, Australia
Exploring the Role of Materiality in Physical Activity

Lisa Koeman, University College London, UK
The Use of Public Visualizations to Encourage Social Connectedness in Urban Communities

Florian Lettner, UAS Upper Austria, Austria
A Generic Concept for Task-driven Remote Usability Testing in Mobile Ecosystems

Juan López de Armentia, University of Deusto, Spain
Social Collaboration of Intelligent Electrical Devices to Enhance Energy Consumption

Muhammad Muaz, UAS Upper Austria, Austria
A Transparent and Continuous Biometric Authentication Framework for User-Friendly Secure Mobile Environments

Annamalai Natarajan, University of Massachusetts Amherst, USA

Francisco Nunes, Vienna University of Technology, Austria
Improving the Self-care of Parkinsons through Ubiquitous Computing

Tadashi Okoshi, Keio University, Japan
Application as a Sensor (AaaS) Approach for User Attention Sensing

Gabriel Reyes, Georgia Institute of Technology, USA
Exploring New On-Body Input & Output Modalities for Mobile Computing
Peter Riedl, UAS Upper Austria, Austria
Towards the Principal Applicability of a Zone Concept to Create a User-Friendly Secure Mobile Environment

Muhammad Shoaib, University of Twente, Netherlands
Human Activity Recognition Using Heterogeneous Sensors

Okan Turkes, University of Twente, Netherlands
Opportunistic Data Dissemination in Mobile Phone Sensor Networks

Adriana Wilde, University of Southampton, UK
"Happiness": Can Pervasive Computing Assist Students to Achieve Success?

Akihito Yoshii, Waseda University, Japan
Tailorable Persuasive Agent: A Long-Term Framework for Persuasive Conversational Agents

Cheng Zhang, Georgia Institute of Technology, USA
BeyondTouch: A Framework for Extending Input on Commodity Smartphones