

Education

- 2017 **P.h.D in Electrical and Computer Engineering**, *Georgia Institute of Technology*, Atlanta.
Minor in Computer Science (focus on Human-Computer Interaction, School of Interactive Computing)
- 2013 **M.S. in Electrical and Computer Engineering**, *Georgia Institute of Technology*, Atlanta.
Minor in Computer Science (focus on Human-Computer Interaction, School of Interactive Computing)
- 2011 **B.S. in Computer Engineering**, *Georgia Institute of Technology*, Atlanta.
Focus on embedded systems applications

Awards and Honors

- 2016 GEM Fellow
- 2015 Intel Scholar
- 2014 Wearable Computing Center Google grant supporting canine explosive detection
- 2014 Midtown Alliance/iPat Hackathon first place in the commercial category
- 2014 Faculty Honors (with highest marks on CS 6750 Human Computer Interaction)
- 2013 Winner of ISWC 2013 Best Paper Award, Zurich, Switzerland
- 2013 Winner of Atlanta Pediatric Consortium Research Grant
- 2012 Inducted into IEEE HKN honor society
- 2011 Second place at CISCO Embedded Design Competition
- 2009 Faculty Honors
- 2006-2011 Dean's List
- 2006-2011 OMED Tower Award for Academic Excellence

Patents

- WO 2013166261 Methods, controllers and computer program products for accessibility to computing devices

Publications

Conference Proceedings

- 2016 Creating Collar-sensed Motion Gestures for Dog-Human Communication in Service Applications, *International Symposium for Wearable Computing*
- 2015 Towards a Canine-Human Communication System Based on Head Gestures, *The Second International Congress on Animal-Computer Interaction*
- 2015 Leveraging Mobile Technology to Increase the Permanent Adoption of Shelter Dogs, *Conference on Human-Computer Interaction with Mobile Devices*
- 2014 Canine Reachability of Snout-based Wearable Inputs, *International Symposium for Wearable Computing*
- 2013 Wearable dog-activated interfaces, *International Symposium for Wearable Computing*
- 2013 Passive versus active activity monitoring approaches for engaging individuals in exercise, *Bio-signals & Bio-robotics Conference*

Journal Articles

- 2017 Canine-Centered Computing , *Foundations and Trends in Human-Computer Interaction*
- 2015 Wearable Alert System for Mobility-Assistance Service Dogs , *International Journal on Technology and Persons with Disabilities (CSUN)*
- 2014 Wearable Communication Interfaces for Working Dogs, *Journal of Personal & Ubiquitous Computing*

Workshop Articles

- 2016 Training Collar-sensed gestures for canine-human communication, *Animal-Computer Interaction Conference*
- 2015 The Challenges of Wearable Computing for Working Dogs, *International Symposium for Wearable Computing*
- 2014 Assessment of Working Dog Suitability from Quantimetric Data, *Nordic Conference on Human-Computer Interaction, Animal-Computer Interaction*
- 2014 From HCI to ACI: User-centered and Participatory design in Canine ACI, *Nordic Conference on Human-Computer Interaction, Animal-Computer Interaction Workshop*
- 2014 Gestural Activity Recognition for Canine-Human Communication, *International Symposium for Wearable Computing, Doctoral Consortium*

Published Reviews

- 2015 Not all Days are Equal: Investigating the meaning in the digital calendar, *Human Factors in Computing Systems*

Experience

Industry

- Summer 2016 **Intel Corporation**, *Anticipatory Computing Lab*, Santa Clara, CA.
Ongoing work focused on wearable inertial sensing in high-impact, no-connectivity environments
- Summer 2015 **Intel Corporation**, *Experiences Group*, Hillsboro, OR.
UX Internship: User experience research supporting Intel's future of the workplace vision.
Deployment trial with 500 participants received Division Recognition Award

Research

- 2013–Present **Graduate Research Assistant**, *Animal-Computer Interaction Lab*, GVU Center.
NSF-funded project on sensor-based dog-to-human communication (FIDO).
◦ *Featured on:* MIT Technology Review, Forbes Magazine, Headline news, Discovery Channel
- 2012-2013 **Graduate Research Assistant**, *Human-Automation Systems Laboratory*, Georgia Tech.
Developed assistive technologies for children and adults with motor limitations.
◦ NSF I-Corps, Project recommended for commercialization, incorporated as Zyrobotics

Teaching

- 2012 **Instructor**, *Georgia Tech*, ECE 3741, Instrumentation and Electronics Laboratory.
Introduction of Electrical Engineering principles to non-majors in a laboratory context.
- 2012 **Lab Instructor**, *Georgia Tech*, ECE 3042, Micro-electronics Circuits Laboratory.
Introduced students to op-amp applications and digital circuits in a laboratory context.
- 2011-Present **Graduate Teaching Assistant**, I-Natural, Vertically Integrated Projects.
Introduced undergraduate students to research in health-oriented Ubiquitous Computing

Volunteer Work

- 2016 Served as conference committee member as reviewer for Advances in Computing Entertainment.
- 2014-2015 Co-raiser for Canine Companions for Independence puppy raising program for service dogs.
- 2014 Working with Fulton County Animal Services to increase web-facilitated adoptions.
- 2013-2015 Student volunteer at the International Symposium on Wearable Computing.
- 2012 National Federation for the Blind sponsored programming workshop for children with visual impairments (Cleveland, Atlanta, Berkeley).