Joyce Ho

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Education

University of Texas at Austin **Austin**
Ph.D student in Electrical and Computer Engineering *2011–Present*
Advisors: Dr. Joydeep Ghosh and Dr Sriram Vishwanath

Massachusetts Institute of Technology **Cambridge**
M.Eng in Electrical Engineering and Computer Science *2003–2004*
Advisor: Dr Stephen Intille

Massachusetts Institute of Technology **Cambridge**
B.S in Electrical Engineering and Computer Science *1999–2003*

Publications

Joyce C Ho, Yubin Park, Carlos M Carvalho, and Joydeep Ghosh. DYNACARE: Dynamic Cardiac Arrest Risk Estimation. In *Proceedings of the Sixteenth International Conference on Artificial Intelligence and Statistics*, pages 333–341, April 2013.

Joyce C Ho, Cheng H Lee, and Joydeep Ghosh. Imputation-Enhanced Prediction of Septic Shock in ICU Patients. In *ACM SIGKDD Workshop on Health Informatics (HI-KDD 2012)*, 2012.

Cheng H Lee, Natalia M Arzeno, Joyce C Ho, Haris Vikalo, and Joydeep Ghosh. An Imputation-Enhanced Algorithm for ICU Mortality Prediction. In *Computing in Cardiology 2012*, 2012.

J Fisher, G Bowers, R Carey, S Daveler, K H Ford, and J Ho. User Interface Framework for the National Ignition Facility (NIF). In *Proceedings of ICALEPCS07*, Knoxville, TN, 2007.

J Ho, J Fisher, J Gordon, L Lagin, and S West. Java Tool Framework for Automation of Hardware Commissioning and Maintenance Procedures. In *Proceedings of ICALEPCS07*, page 547, Knoxville, TN, 2007.

Joyce Ho and Stephen S Intille. Using context-aware computing to reduce the perceived burden of interruptions from mobile devices. In *CHI '05: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. ACM Request Permissions, April 2005.

Work Experience

Center for Clinical and Research Informatics, Northshore Health System **Evanston**
Project Coordinator, Research *Jun 2012–Aug 2012*
- Created a model to predict risk of a Multiple Sclerosis diagnosis
- Developed a cardiac arrest risk prediction model

Global Security, Lawrence Livermore National Laboratory **Livermore**
System Engineer *Mar 2009–Aug 2011*
Developed streaming and distributed algorithms to detect anomalous activity in network traffic

National Ignition Facility (NIF), Lawrence Livermore National Laboratory **Livermore**
Maintenance and Commissioning Tool Lead *Sept 2004–Mar 2009*
Managed a group of 2-3 developers.
Planned software releases, tracked schedules, prioritized work, and addressed technical issues.
Interviewed candidates for positions within the NIF Integrated Computer Controls System group.
Designed, implemented and tested algorithms to automate laser system calculations and verifications.

Microsoft **Redmond**
Software Development Intern *May 2003–Aug 2003*
Designed and implemented the Microsoft ActiveSync 4.0 Device Sync Setup Wizard.

Trimble Navigation **Sunnyvale**
Advanced Systems Intern *Jun 2001–Aug 2001*
Designed a circuit board to connect a wireless LAN card and GPS receiver for real-time collision prevention.

Academic Experience

Massachusetts Institute of Technology **Cambridge**
Research Assistant, Advisor: Dr Stephen Intille *Aug 2003–Aug 2004*
Developed a real-time activity detection system using wireless accelerometers, a receiver, and a PocketPC.
Designed a rechargeable battery pack to power the PocketPC and wireless receiver.

Stanford University **Stanford**
Research Assistant, Advisor: Dr. Terry Winograd *Jun 2002–Aug 2002*
Designed and implemented voice input for the Interactive Workspace project.
Assisted the development of one-bit LED receivers controlled by a remote source.

Teaching

Graduate teaching assistant for EE380-L Data Mining in Spring 2013
Held regular office hours to help students with the course material, homeworks, and project.
Presented a quick introduction of the R language.
Helped design homework problems.

Skills

Programming Languages: Java, C++, R, Python, SQL, Matlab, Perl, CORBA, Scheme

Honors

Awards: Innovative Signal Analysis Fellowship (2012), Cockrell School of Engineering Doctoral Fellowship (2011-2013), Microelectronics and Computer Development (2011) Fellowship

Honors: Tau Beta Pi, Eta Kappa Nu