

# Hoda Eydgahi

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**Citizenship** U.S. Citizen

## Education

2006-present **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** **Cambridge, MA**  
Ph.D. Candidate in Electrical Engineering and Computer Science (Expected Dec. 2012)  
Master of Science in Electrical Engineering and Computer Science, June 2008

2003-2006 **VIRGINIA COMMONWEALTH UNIVERSITY** **Richmond, VA**  
Bachelor of Science with Honors in Biomedical Engineering, June 2006  
*Minors: Mathematics and Chemistry* GPA: 4.0/4.0 Class Rank: 1

## Experience

2009-present **MIT LAB FOR INFO. & DECISION SYSTEMS / HARVARD SYSTEMS BIOLOGY** **Cambridge, MA**  
RESEARCH ASSISTANT, *Project: Development & Application of Bayesian Framework To A Model of Apoptosis*

- Developed a framework for exploring model parameters using machine learning in a model of cell death
- Implemented machine learning algorithms for qualitatively differentiating between various network topologies

Winter 2009 **MENNONITE ECONOMIC DEVELOPMENT ASSOCIATES** **Dar es Salaam, Tanzania**  
MANAGEMENT CONSULTANT, *New Business Strategy*

- Developed a framework for structuring technology investments that would both enhance current operations and create a platform for MEDA's future growth
- Assisted with the implementation of an electronic voucher system for the nation-wide distribution of mosquito nets to prevent malaria

Summer 2008 **MICROSOFT CORPORATION** **Redmond, WA**  
PROGRAM MANAGER INTERN, Windows Application Platform Team, Core Operating System Division

- Studied market trends and drivers presented in syndicated reports such as Gartner and Forrester
- Consulted the team about the validation of their business propositions

2006-2008 **MIT MEDIA LAB** **Cambridge, MA**  
RESEARCH ASSISTANT, *Project: iCalm™: Wireless Bio-sensing for iPod and Mobile Phones*

- Evaluated current sensors on market and developed a practically noise-free, low-power, wireless wrist-based set of heart rate and skin conductance sensors packaged in a comfortable form factor enabling around-the-clock, continuous physiological monitoring; iCalm sensors are the basis for the start-up company Affectiva, Inc.
- Organized and conducted group experiments implementing the aforementioned set of sensors

2005-present **THE PRINCETON REVIEW** **Richmond, VA and Boston, MA**  
INSTRUCTOR AND PRIVATE TUTOR

- Certified to teach SAT and MCAT General Chemistry
- Communicated scientifically sophisticated concepts to students from non-scientific disciplines

## Skills

*Quantitative:* Probability, Statistics, Numerical Simulation, Machine Learning, Linear Algebra, Differential Equations

*Computer:* MatLab, Python, LabView, Protel, PSpice, Microsoft Office, Adobe Lightroom

*Language:* Bilingual – English and Farsi, Basic French and Spanish

## Awards

Science Magazine's Dance Your Ph.D. Contest Finalist (2011), MIT Graduate Woman of Excellence Award (2010), National Science Foundation Graduate Fellowship (2007), MIT Presidential Fellowship (2006), Tau Beta Pi Fellowship (2006), VCU School of Engineering Class of 2006 Commencement Student Speaker (2006), Verizon Foundation Senior Design Scholarship (2006), VCU Student Government Association's Outstanding Achievement Award (2005), VCU Presidential Scholarship (2003), Perdue Corporation Scholarship (2003)

## Leadership

Co-chair – MIT LIDS Student Conference (2012), Social Co-chair – MIT Persian Students' Assoc. (2008-09), Hall Councilor – Sidney-Pacific Graduate Residence Hall (2007-08), Athletics Chair – MIT EECS Graduate Students' Assoc. (2007-08), Cataloguer – Tau Beta Pi, VA-E Chapter (2005-06), Vice President – VCU Biomedical Engineering Society (2004-06), Student Senator – VCU Student Govt. Assoc. (2003-06)

## Interests

Entrepreneurship, global health, glass blowing, squash, running, travelling, photography, music