

Deborah Hanus

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Education

Harvard University, Cambridge, MA May 2018 (Expected)

Ph.D. Computer Science, GPA: 3.8/4.0

Massachusetts Institute of Technology, Cambridge, MA February 2013

M.Eng. Electrical Engineering and Computer Science, GPA: 5.0/5.0

S.B. Brain and Cognitive Sciences, GPA: 4.9/5.0

S.B. Computer Science and Engineering, GPA: 4.0/5.0

Experience

Harvard University Cambridge, MA

NSF Graduate Research Fellow 2015 – Present

- Used reinforcement learning to predict effective HIV treatments, using a simulator written in Python.
- Developed a model to predict what makes a movie successful (def: Oscars, box office success), using data from IMDbpy, the-numbers, and box-office-mojo. `oscarpredictor.github.io`

Lead Genius Berkeley, CA

Full Stack Software Engineer 2014 – 2015

- Used Django, Python, HTML, CSS, and Javascript to build onboarding system used by 100+ clients.
- First full-time hire of the company's team of 4 engineers responsible for the company's sole product.

United States Department of State Phnom Penh, Cambodia

Fulbright Scholar 2013 – 2014

- Investigated how education can stimulate job creation, alleviating Cambodian underemployment.

Vecna Technologies, Inc Cambridge, MA

Software Engineering Intern, Humanist Design Studio Summer 2013

- Used HTML, CSS, and Javascript to develop a suite of games designed to test and refine user interfaces to be more accessible for individuals suffering blindness, deafness, and brain injury.

Boston Python Workshop Cambridge, MA

Teaching Assistant, Project-driven Python 2011 – 2013

- Collaborated in development and instruction of programming exercises aimed at increasing number of women who contribute to open source, resulting in 200+ women joining the Boston Python user community and workshops being run in six major cities across the US.

Massachusetts Institute of Technology Cambridge, MA

Graduate Research Assistant 2011 – 2013

M.Eng. Thesis: "Smart Scheduling: Optimizing Tiler's Process Scheduling via Reinforcement Learning."

- Implemented Python library of reinforcement learning algorithms to efficiently navigate a maze.
- Integrated reinforcement learning into Tiler's scheduling using C, optimizing efficiency.

Teaching Assistant, Department of Electrical Engineering & Computer Science Spring 2011

- Led two recitation sections (20 students each) twice weekly and guided students in bi-weekly labs, which culminated in each student building a beta processor.

Undergraduate Research Assistant, McGovern Institute for Brain Research 2007 – 2010

- Collected and managed data of 200+ subjects for 4-10 simultaneous projects.
- Collaboratively developed and coded experiments and corresponding analyses, resulting in three peer-reviewed journal articles (one first author) and four posters (three first author).

Publications // Found at: `dhanus.mit.edu/research.html`

Skills // Python, Django, git, HTML, CSS, Javascript, C/C++, Java.

Certifications // Emergency Medical Technician (EMT-B); Licensed Private Pilot.