

Matthew A. Gordon

Education

Massachusetts Institute of Technology

B.S. Mathematics with Computer Science. GPA: 4.4/5.0

Cambridge, MA

September 2004 - May 2008

Experience

Virsona

Artificial Intelligence Developer

Virtual Office

June 2008 - October 2009

Created algorithms for conversational computer programs that simulate the personalities of real and fictional characters. Built the interface that allowed users to chat with the characters on websites, over multiple instant messenger protocols, and through a Facebook application, while ensuring scalability and high uptime.

Apple

Software Engineering Intern

Cupertino, CA

June 2007 - January 2008

I made a testing automation tool for Mac OS X that is used by three teams at Apple. The tool selects and schedules which tests to run so that engineers no longer need to directly manage this process. I was selected to present this project to the Senior VP of Software Engineering.

The Robotic Life Group, MIT Media Lab

Research Assistant

Cambridge, MA

February 2007 - May 2007

Designed physical and verbal interactions for social robots that acted as weight-loss coaches for obese people in a long-term assistive robotics study. I was also in charge of the graphical user interfaces that appeared on the robots' touchscreens.

Mobile Autonomous Systems Laboratory

Software Engineer

Cambridge, MA

December 2006 - January 2007

Designed a robot as part of a team for a vision-based autonomous robotics competition at MIT. Implemented object recognition, motor control, sensor-based decision making, edge detection, path planning, global mapping using barcodes, and neural network algorithms. Our robot was featured in an article that appeared in the Summer 2007 issue of Robot Magazine.

The Computational Cognitive Science Group, MIT

Research Assistant

Cambridge, MA

September 2005 - December 2006

Employed techniques from statistical machine learning to study the computational basis of human learning and inference. Research focused on applying novel clustering algorithms to problems of concept formation and image parsing. Implemented Markov Chain Monte Carlo algorithms, inference over Bayesian Networks, and the development of generative models.

Skills

Proficient in Java, Matlab, Max/MSP, OpenGL, Python, Ruby/Rails, Scheme. Working knowledge of C, MySQL, .NET, PHP, Subversion.

Publications

Learning Cross-cutting Systems of Categories. Shafto, P. Kemp, C., Mansinghka, V., Gordon, M., and Tenenbaum, J. B. (2006). Proceedings of the Twenty-Eighth Annual Conference of the Cognitive Science Society.