Eric Wadkins

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(http://ericwadkins.com/about) **Education**

Massachusetts Institute of Technology (MIT):

Cambridge, MA

- Master of Engineering (M.Eng.) in Computer Science/Artificial Intelligence GPA: 5.0
- June 2018 June 2019
- Bachelor of Science (B.S.) in Computer Science and Engineering GPA: 4.6 (Major: 4.8)

Aug. 2014 – June 2018

- Certificate of Advanced Undergraduate Research in Artificial Intelligence/Machine Learning

May 2018

Skills

(http://ericwadkins.com/skills)

Programming Languages: Python, Java, JavaScript, Node.js, C++, HTML/XML, CSS, MongoDB, Arduino, GLSL, ... Software Engineering: Designing, implementing, and testing general applications, full-stack applications, and tools and libraries across various disciplines.

AI Research and Design: Researching and designing artificial intelligence systems using machine learning models, such as neural networks, as well as probabilistic models and classic AI approaches.

Applied ML: Machine learning and its applications, including prediction, machine translation, computer vision, and natural language/speech processing models, using libraries such as Tensorflow, Keras, Torch, and Scikit-Learn.

Experience

(http://ericwadkins.com/timeline)

MIT Media Lab - Fluid Interfaces Group

Cambridge, MA

Machine Learning Lead, AlterEgo Project (http://media.mit.edu/people/ewadkins)

June 2018 - Present

AlterEgo, which I demoed at TED 2019, is a wearable device that aims to augment humans with the information and computational power of a computing device in a natural way. My research focuses on creating a continuous "silent speech" recognition system that allows humans to converse covertly – without any speech or movement, instead with electric signals from the brain produced during subvocalization – with machines, AI assistants, and other people.



NASA - National Aeronautics and Space Administration

Greenbelt, MD

Machine Learning Intern @ Goddard Space Flight Center

Ian. - Feb. 2018

I interned with NASA at the Goddard Space Flight Center, where I used machine learning to apply satellite data to applications of aerosol science. My project focused on using the MODIS Terra and Aqua satellites' global monitoring capabilities and the GEOS-5 forecasting model for the prediction of unknown atmospheric features around the world.



Google

Los Angeles, CA

June - Aug. 2017

As an intern at Google's Venice, Los Angeles office, my work included the design, implementation, testing, and concurrent optimization of an intelligent automated tool for YouTube's internal infrastructure.



Research Laboratory of Electronics - Quantum Photonics Laboratory

Cambridge, MA

MITRE Undergraduate Research and Innovation Scholar (3 semesters)

Feb. 2017 - May 2018

I led a year-long research project, sponsored by MITRE, that aimed to improve instrument localization and autonomous navigation. Prior work includes developing machine learning and computer vision-enabled algorithms to automate processes in the lab, such as detection and examination of data near nitrogen-vacancy centers in diamond.



Undergraduate Researcher **Computer Science and Artificial Intelligence Laboratory (CSAIL)**

Cambridge, MA

Software Engineering Intern

Sept. - Dec. 2016

My work for the InfoLab Group focused on a video action recognition system capable of recognizing scenes based on the physical properties of the objects within them, providing a method of querying these scenes using natural language.



Diameter Health

Newton, MA

Software Engineering Intern (2+ years: summers, winters, semester work)

June 2015 - Feb. 2017

At Diameter Health, I designed and developed full-stack applications using proprietary algorithms to analyze and reveal insights in healthcare data. Prominent projects include an advanced free-text medication signature parser using NLP techniques, and a predictive tool, funded by the NIH, to assess the risk of Chronic Kidney Disease.

Projects/Papers/Thesis

(http://ericwadkins.com/projects)