Eric Wadkins

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Education

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

Massachusetts Institute of Technology (MIT): **Cambridge, MA**
- Candidate for **Master of Engineering (M.Eng.) in Comp. Science/Artificial Intelligence** 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: Java, Python, C++, JavaScript, Node.js, HTML, CSS, R, MATLAB, Arduino, Android, GLSL, XML, LaTeX
Libraries/Other: OpenCV, OpenGL, TensorFlow, PyTorch, Keras, MongoDB, ANTLR, UNIX, NumPy, SciPy, scikit-learn, jQuery, Durandal, Bootstrap, Express, Linux, Git
- Researching, designing, and experimenting with AI systems, including machine learning models.
- Designing, implementing, and testing general applications, web applications, and libraries.

Experience

(**http://ericwadkins.com/#timeline**)

Fluid Interfaces Group, MIT Media Lab **Cambridge, MA**
Machine Learning Research Assistant June 2018 – Present
The Fluid Interfaces Group concentrates on integrating information and services into our daily physical lives. My research focuses on using neural networks to create a continuous "silent" speech recognition system that, through the use of a wearable device, allows humans to converse silently – without any speech or movement, but rather through subvocalization via electric signals from the brain – with machines, artificial intelligent assistants, and other people.

Quantum Photonics Laboratory, Research Laboratory of Electronics (RLE) **Cambridge, MA**
MITRE Undergraduate Research and Innovation Scholar *(3 semesters)* Feb. 2017 – May 2018
I recently 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.

National Aeronautics and Space Administration (NASA) **Greenbelt, MD**
Machine Learning Intern @ Goddard Space Flight Center Jan. – Feb. 2018
I interned with NASA at the Goddard Space Flight Center, where I used machine learning to apply satellite measurements to applications of aerosol science. My project focused on using data from the MODIS Terra and Aqua satellites and GEOS-5 forecasting model to create a neural network model for the prediction of cloud effective radius.

Google **Los Angeles, CA**
Software Engineering Intern 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.

Computer Science and Artificial Intelligence Laboratory (CSAIL) **Cambridge, MA**
Undergraduate Researcher Sept. – Dec. 2016
The InfoLab Group researches AI, CV, NLP, and multimedia information access. My research included a system to detect homographic scenes based on physical properties of objects and querying these scenes using natural language.

Diameter Health **Newton, MA**
Software Engineering Intern *(2+ years: summers, winters, semester work)* Jun. 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.

Papers/Projects

(**http://ericwadkins.com/#projects**)

Computer Vision Tools for Locating Nitrogen-Vacancy Centers
Eric Wadkins, Michael Walsh, Dirk Englund – Short link: http://ericwadkins.com/p/1

➔ ***To learn more about me and see my projects and other papers, visit*:** http://ericwadkins.com