

Gabriel Grand

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EDUCATION

- Harvard University** Cambridge, MA
A.B. Honors Degree in Computer Science & Mind, Brain, and Behavior Dec. 2018
- GPA 3.97, John Harvard Scholar (top 5% of class), Herchel Smith Fellow
 - Relevant Coursework: Artificial Intelligence, Machine Learning, Neural Networks, Computational Neuroscience, Theory of Computation, Linear Algebra, Multivariate Calculus, Discrete Math, Probability Theory
- Center for Mind/Brain Sciences, University of Trento** Trento, Italy
• Study abroad coursework in Cognitive Neuroscience and functional neuroimaging. June – Aug. 2015
- Horace Mann School** New York City, NY
• GPA 4.0, Graduated cum laude with honors in English, History, Math, Physics, and Spanish. June 2013

WORK EXPERIENCE

- Google Research** Mountain View, CA
Software Engineering Intern May – Aug. 2017
- Undertook a 12-week, self-driven research project under supervision of a full-time software engineer on the Optical Character Recognition (OCR) team in Google Research and Machine Intelligence.
 - Developed an experimental attention-based neural network architecture for end-to-end OCR in TensorFlow.
 - Extended existing C++ MapReduce pipeline for generation of synthetic text and image training data.
- Fedorenko Lab, MIT Brain and Cognitive Sciences** Cambridge, MA
Research Assistant, Herchel Smith Fellow June 2016 – Present
- Developed unsupervised ML algorithms in MATLAB to extract semantic information from GloVe and Word2Vec.
 - Collaborated with researchers at MIT, Google DeepMind, and Siemens as part of the IARPA Knowledge Representation in Neural Systems (KRNS) project. (Publication forthcoming.)
- Cox Lab, Harvard Center for Brain Science** Cambridge, MA
Research Assistant February 2016 – May 2016
- Built streamlined, open-source Python pipeline for collection and analysis of eyetracking data, which was used to optimize deep learning models to achieve state-of-the-art performance on computer vision benchmarks.

LEADERSHIP & ACTIVITIES

- Harvard Society for Mind, Brain, and Behavior** Cambridge, MA
President Sept. 2014 – May 2017
- Oversee board and general meetings. Coordinate weekly events. Manage group budget and finances.
 - Organize symposia featuring leading brain science and computer science researchers from the Boston area.
 - Designed and implemented new website (hsmbb.org), and promoted Facebook page to over 5,500 likes.
- Harvard Model United Nations** Cambridge, MA
Director Sept. 2014 – Present
- Directed committee on cyberterrorism at Harvard-based conference of 2,000+ college delegates.
 - Competed nationally on Harvard's collegiate MUN team. Organized 2017 conference held in Beijing, China.
- Berg App** Cambridge, MA
Co-founder Oct. 2014 – Dec. 2015
- Developed iOS app (bergapp.com) on Meteor.js platform to enhance Harvard dining hall experience.
 - Won second prize at Harvard Innovation Lab Winter Xcelerate 2015 technology innovation competition.

SKILLS & INTERESTS

Programming: Python, TensorFlow, MATLAB, C, C++, HTML, CSS, JavaScript, jQuery, Meteor.js, PHP, MySQL, OCaml (Github: [gabegrand](https://github.com/gabegrand))

Languages: Spanish (fluent), Mandarin Chinese (basic)

Interests: Rowing, skiing, backpacking, travel, language learning, guitar