

# Gabriel Grand

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## EDUCATION

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### Harvard University

*A.B. Honors Degree in Computer Science & Mind, Brain, and Behavior*

Cambridge, MA

Dec. 2018

- GPA 3.97; John Harvard Scholar (top 5% of class); Herchel Smith Fellow.
- Coursework: Artificial intelligence, machine learning, natural language processing, computational neuroscience, theory of computation, linear algebra, multivariate calculus, discrete math, probability theory.

### Horace Mann School

- GPA 4.0; cum laude; Robert Caro Award; publication in *The Concord Review*.

New York City, NY

June 2013

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## INDUSTRY EXPERIENCE

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### Google Brain

*Associate Product Manager Intern, TensorFlow*

Mountain View, CA

June – Aug. 2018

- Developed product strategy for deployment of production-scale TensorFlow models across 100+ Google products (e.g., Ads, Cloud, Maps, Play, Shopping, YouTube, etc.) as part of Google's company-wide AI-first initiative.
- Designed a Git-like system to support team-based, collaborative development of TensorFlow models.
- Coordinated a team of 50+ engineers to implement product vision and deliver multiple infrastructure improvements.

### Google AI Research

*Software Engineering Intern, Google OCR*

Mountain View, CA

May – Aug. 2017

- Developed an attention-based neural network for end-to-end optical character recognition (OCR) in TensorFlow.
- Produced novel results on a multilingual OCR benchmark, and presented at Google Research Symposium.

### Activision-Blizzard

*Software Engineering Intern, Infinity Ward*

Los Angeles, CA

Sept. – Dec. 2017

- Engineered new physics-based motion planning system for NPCs (bots) in an upcoming Call of Duty title (2019).

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## ACADEMIC EXPERIENCE

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### Harvard NLP Group

*Student Researcher*

Cambridge, MA

Jan 2018 – Present

- Researched and published paper on visual question answering under supervision of Prof. Alexander Rush.

### MIT Dept. of Brain and Cognitive Sciences

*Research Assistant & Herchel Smith Fellow, Fedorenko Lab*

Cambridge, MA

June 2016 – Mar. 2018

- Developed unsupervised ML algorithm to extract semantic information from GloVe vectors as part of the IARPA Knowledge Representation in Neural Systems (KRNS) project.

### Harvard Center for Brain Science

*Research Assistant, Cox Lab*

Cambridge, MA

Feb. 2016 – May 2016

- Built streamlined, open-source Python pipeline for training computer vision models on eyetracking data.

### Harvard Society for Mind, Brain, and Behavior

*President, Board Member*

Cambridge, MA

Sept. 2014 – Present

- Organized symposia featuring leading brain science and computer science researchers from the Boston area.
- Oversaw board and general meetings. Coordinated weekly events. Managed group finances.
- Designed new website (hsmbb.org), and promoted Facebook page to over 7,000 likes.

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## PUBLICATIONS

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Grand, G., Szanto, A., Kim, Y., & Rush, A. (2018). On the flip side: identifying counterexamples in visual question answering. Presented at KDD '18 Deep Learning Day, Aug. 2018, London, UK. *arXiv:1806.00857*.

Grand, G., Blank, I. A., Pereira, F., & Fedorenko, E. (2018). Semantic projection: recovering human knowledge of multiple, distinct object features from word embeddings. *arXiv:1802.01241*.

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## SKILLS & INTERESTS

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**Programming:** Python, TensorFlow, PyTorch, C++, C, HTML/CSS/JS, MATLAB (Github: gabegrand).

**Interests:** Language learning {Spanish (fluent), Mandarin (basic)}, travel, backpacking, skiing, rowing, guitar.