# Logan Engstrom

January 5, 2018

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http://loganengstrom.com

## Education

- **Massachusetts Institute of Technology (MIT):** GPA - 5.0/5.0    Cambridge, MA
  *Candidate for B.Sc. in Computer Science and Mathematics (double major)*    *2015 - 2018*

## Work Experience and Research

- **Madry Lab, MIT CSAIL**    Cambridge, MA
  *SuperUROP*    *Sept 2017 - Present*
  - Research on designing adversarially robust deep learning models
- **Google Brain**    Mountain View, CA
  *Research Intern*    *Summer 2017*
  - Used style transfer based domain adaptation to improve semantic segmentation methods
- **Apple**    Cupertino, CA
  *Software Engineering Intern*    *Summer 2016*
  - Developed cross-device database synchronization system for iOS in Objective-C and C++

## Publications (* denotes equal contribution)

1. Logan Engstrom*, Dimitris Tsipras*, Ludwig Schmidt, and Aleksander Madry. A rotation and a translation suffice: Fooling cnns with simple transformations. *NIPS Machine Learning and Computer Security Workshop*, 2017

2. Anish Athalye*, Logan Engstrom*, Andrew Ilyas*, and Kevin Kwok. Synthesizing robust adversarial examples. *Demo at NIPS Machine Learning and Computer Security Workshop, in review at ICLR 2018*, 2017

3. Daniel Kang, Richard Sherwood, Amira Barkal, Tatsunori Hashimoto, Logan Engstrom, and David Gifford. Dnase-capture reveals differential transcription factor binding modalities. *PloS one*, 2017

## Selected Projects

- **TensorFire** (AI Grant Spring 2017 winner)    TensorFlow, Python, JavaScript
  *In-browser, flaming-fast, gpu-accelerated deep learning*    *2017*
  - 1000x faster web-based deep learning models than previous approaches
- **ConvNet for Fast Style Transfer** (4500+ GitHub stars)    TensorFlow, Python
  *Add styles from famous paintings to any photo in a fraction of a second*    *2016*
  - Deep convolutional neural network for high quality perceptual style transfer
- **Hextris** (1000+ GitHub Stars)    JavaScript
  *More than 5,000,000 downloads - Free and open-source iOS/Android game*    *2014 - 2015*

## Awards

- **AI Grant** (https://aigrant.org/) *Grant Winner*    2017
- **Andreessen Horowitz Battle of the Hacks** *First Place*    2016
- **Greylock Hackfest** *First Place*    2016
- **WildHacks (Northwestern's Collegiate Hackathon)** *Grand Prize*    2015, 2016