BENJAMIN C. EYSENBACH
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EDUCATION

Massachusetts Institute of Technology (MIT), Cambridge, MA — Sept. 2013 - June 2017
Candidate for Bachelor of Science in Math
Relevant Courses: Algebra (18.06, 18.701), Algorithms (6.046, 6.854, 6.856), Bayesian Modeling (6.882), Computer Graphics (6.837), Computer Vision (6.869), Inference (6.437, 6.438), Machine Learning (6.867, 9.520)
Relevant Course Projects: Topic Modeling with LDA and SVI, Stochastic Block Models, DNA Compression using LDPC codes, Cipher Breaking using MCMC, Randomized Splay Trees; Visualizing Stereo Reconstruction.

TEACHING

6.008 Introduction to Inference (Prof.s Greg Wornell and Polina Golland) - *Teaching Assistant* — Sept. 2016 – Dec. 2016
6.042 Math for Computer Science (Prof. Albert Meyer) - *Teaching Assistant* — Jan. 2015 – May 2015

RESEARCH/WORK EXPERIENCE

Computer Vision Group (Prof. Torralba) in **CSAIL** at **MIT**, Cambridge, MA — Jan. 2015 - present
Undergraduate Researcher
- Constructed model and dataset to extend visual question and answering to character beliefs. (In submission to CVPR)
- Developed a tool for video segmentation using deep learning. (Presented at EECScon 2015: 2nd Place Oral Presentation)

Uber Advanced Technologies Center, Pittsburgh, PA — May 2016 – Aug 2016
Machine Learning Intern
- Contributed to the research and development behind Uber's self-driving technologies. (Project details are under NDA.)

Xerox Research Centre, Bangalore, India — Jan 2016 – Jan 2016
Research Intern
- Developed algorithm for robust optimization over predictions of machine learning models.

Creative Technology Lab at **Adobe**, San Francisco, CA — June 2015 – Sept 2015
Research Intern
- Built automatic video tagging system using deep learning to recognize objects, scenes, and actions.

Institute for Interdisciplinary Information Sciences at **Tsinghua University**, Beijing, China — June 2014 – Aug 2014
Li and Fung Scholar
- Studied algorithmic game theory and coded simulations to verify proposed solutions.

Senseable Cities Lab at **MIT**, Cambridge, MA — Sept. 2013 – May 2014
Undergraduate Researcher
- Performed image analysis and system integration for an autonomous quadcopter system.

Fluid Interface Group in **MIT Media Lab**, Cambridge, MA — Sept. 2013 – Dec. 2013
Undergraduate Researcher
- Integrated a JS physics engine into LuminAR, the lab's AR platform, to allow physics objects to interact with virtual ones.

Aeturnum, Bedford, MA — June 2013 – Aug. 2013
Intern
- Built a recommendation engine for social networking app; constructed a JS tool to automate testing of the iPhone app.

Harvard School of Engineering and Applied Sciences, Cambridge, MA — May 2013 – June 2013
Intern
- Created a game using JS to crowdsource study of molecules for use in solar panels.

TOOLS

Coding: Python (NumPy, SciPy), Bash, MATLAB. Familiar with C, C++
Visualization: Matplotlib, JS
Machine Learning: Caffe, Torch, scikit-learn, OpenCV
Software: git, vim, Linux, LateX, MS-Office.

LEADERSHIP

Floor Representative for Maseeh Hall, **MIT** — Sept. 2013 – Jan. 2014
- Elected to manage floor budget and to help plan dorm activities and study breaks.

ACTIVITIES

MIT Unmanned Aerial Vehicle Team – Developed robots tracking and image stitching systems.
MIT Rocket Team – Designed sensor system for cold-flow and hot-fire tests. Wrote software to display real-time data.
Long Distance/Trail Running