

# Michele Pratusevich

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## EDUCATION

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### Massachusetts Institute of Technology (MIT)

*M.Eng. candidate in Electrical Engineering and Computer Science*

*Sept 2014 - (Expected) June 2015*

- Thesis advisors: Prof. Robert Miller and Prof. Antonio Torralba
- Coursework: Machine Learning

### Massachusetts Institute of Technology (MIT)

*S.B. in Electrical Engineering and Computer Science. Minor in Mathematics.*

*Sept 2009 - June 2013*

- Coursework: Algorithms, Software Development, Computer Systems Engineering, Microprocessor Project Lab, Computer Systems Security, Design for Manufacturing, Discrete Math, Probability, Educational Game Design, Computer Vision, Computer Graphics
- Certificate in Advanced Undergraduate Research in EECS
- GPA: 4.5/5.0

## EXPERIENCE

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### User Interface Design Group and Torralba Vision Group, CSAIL, MIT

*Cambridge, MA (USA)*

- Graduate Research Assistant, September 2014 - present
- Automatically annotate educational videos using computer vision and machine learning techniques to create novel interfaces in educational video interaction

### MEET (Middle East Education through Technology)

*Jerusalem, Israel / Palestine*

- Head of curriculum and computer science instructor, June 2013 - September 2014
- Developed, managed, and taught 3-year computer science curriculum for high school students with the goals of learning Python, web development, and technical teamwork skills
- Taught Israeli and Palestinian high school students computer science (Python, web development). Mentor student project teams using technology to create social and political change in the region

### Computer Graphics Group, CSAIL, MIT

*Cambridge, MA (USA)*

- Quanta Research Fellow for Advanced Undergraduate Research, September 2012 - June 2013
- Designed, built, and tested an iOS app to accurately perform rephotography by creating a 3D depth field

## SKILLS

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- Languages: English (native), Russian (proficient), Spanish (proficient)
- Programming: Python, C++, C, MATLAB, Objective-C, 8051 Assembly
- Web: Django, HTML, CSS, JavaScript, jQuery, MySQL
- Tools: IPython, NUMPY / SCIPY, OPENCV, OPENGLES, L<sup>A</sup>T<sub>E</sub>X, vim, git, SolidWorks CAD, Arduino

## ACTIVITIES AND INTERESTS

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- MIT Outing Club: Desk captain and Circus Organizer (2012) - run the gear rental desk and organize large monthly trips for MIT students; Webmaster (2013, 2014) - maintain website and gear database
- MIT Educational Studies Program: Chair (2011) - oversee organization of educational programs for middle and high school students (<http://esp.mit.edu>)
- Teaching: MIT ESP: recreational mathematics, computer vision; MEET: Django web development, AppInventor, Introductory Python, Data Analysis
- Hobbies: hiking, climbing, hacking, puzzles
- Github: <http://github.com/mprat>
- Python exercises blog: <http://practicepython.org>
- Learn the command line: <http://mprat.org/Terminus>