

# LOGAN ENGSTROM

**Mobile:** (781) 795-6096  
**Email:** engstrom@mit.edu

**Website:** <http://loganengstrom.com/>  
**GitHub:** <http://github.com/lengstrom/>

## WORK EXPERIENCE

**Research Assistant/UROP**                      Gifford Lab, MIT CSAIL                      2014-Present  
Discovering and researching patterns of genetic heritability using machine learning algorithms on large datasets. Tuned and implemented machine learning algorithms, and creating null distributions for data.

**Research Assistant**                      MIT Whitehead Institute                      Summer 2013  
Full-time during summer. Programmed web and command line interfaces for Whitehead Institute scientists. Work included creating workflows for biological analyses, programming web-based front ends for workflows, programming job queuing systems, and analyzing the effects of DNA quality on sequence alignment.

## HONORS AND AWARDS

**PennApps X (UPenn's Collegiate Hackathon):** Top 10 Finalist and Apple's "Best iOS App" Award for **Flare**, a novel interphone communication protocol (2014)  
**Apple Developer Student Scholarship Winner x2** (2014 and 2015)  
**js13k 2014:** 7th place mobile with **Radial** (2014)  
**MIT Club of NY's "Dream it. Code it. Win it.":** Finalist with **Trustee** (2014)  
**HackExeter:** Grand Prize winner with **Hextris** (2014)

## PROJECTS *Note: bolded names link to the projects*

### Published Games

**Hextris:** Javascript/Canvas puzzle game. 5 million users across iOS, Android, FireFox OS, and web. (2014)  
**Pyramid Renderer:** Javascript/Canvas/WebGL pyramid renderer, featured on Google's Chrome Experiments. (2013)  
**Dangerous Chef Pioneer:** JavaScript/Canvas psychological top down shooter game. (2013)  
**Problematic Particles:** Objective-C iOS puzzle game in which players manipulate gravity to transport particles around obstacles and into goals. (2013)

### Published Tools/Libraries/Miscellaneous Software

**LSRHS Schedule:** Mobile version of Lincoln-Sudbury high school's scheduling system. Built with Objective-C, Python, Javascript and CSS. Includes reverse engineered authentication and data retrieval. (2013)  
**Math Evaluator:** Sublime Text 2/3 plugin that evaluates text selections containing mathematical expressions. Used by several hundred developers. (2014)

## SKILLS

Languages: Python, Javascript/Node; Competent in C++, Objective-C, Bash/Zsh, Emacs Lisp  
Technologies: Git, Node.js, Cocos2d,

## EXTRACURRICULAR ACTIVITIES

TechX/HackMIT Committee Member (2015)  
MIT Baker Dormitory Freshman Representative (2015)  
Organized Hackathon "LexHack" (2014)

## EDUCATION

Massachusetts Institute of Technology, Cambridge, MA (2015-2019)