

# Anthony F. Cannistra

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**School:** 74 Bromfield Road, Apt 1, Somerville, MA 02144

**Permanent:** 10 Glen Ellen Drive, Cumberland, RI 02864

## Education

**Tufts University**  
Medford, MA

**Major** B.A., Computer Science and Biology (expected May 2015)

**GPA** 3.53 (Dean's List)

**Coursework** Machine Structure and Assembly Language Programming, Data Structures, Programming Languages, Computational Biology, Human Physiology, Animal Behavior, Algorithms, Genetics, Computation Theory (*in progress*), Evolutionary Biology (*in progress*)

**Activities** Tufts Mountain Club, Tufts Admissions Tour Guide, Tufts Computer Science Exchange, Tufts Idea Exchange

**Leadership** Co-President, Tufts Idea Exchange; Co-Project Lead, TuftsLife; Executive Board Member, Tufts Computer Science Exchange

**Honors** Admission to the PennApps Hackathon at UPenn, Intuit Sustainability Prize at MIT/Harvard's ID Hack

**Moses Brown School**  
Providence, RI

Graduated May, 2011. GPA 3.67

**Honors** Admission to Cum Laude Society, Best Varsity Debater Award, Advisor's Award, College Board Advanced Placement Distinguished Scholar

## Experience

**Tufts University Computational Biology Research Group**, *Researcher*, May 2013–Present

- Worked with Professors Benjamin Hescott and Lenore Cowen on protein function prediction.
- Developed and implemented algorithms in Python that built upon Hescott and Cowen's Diffusion State Distance (DSD) metric to incorporate genetic protein-protein interaction data into function prediction.
- Worked with large protein interaction datasets and graph algorithms.
- Currently writing scientific paper describing results for submission to RECOMB 2014.

**CollegiateText**, *Co-Founder and Developer*, Spring 2013–Present

- Created textbook price comparison web site for students at Tufts University (<http://tuftstext.com>), Brandeis University, and Bentley University.
- Built an efficient full stack with the help of my co-founder: custom node.js backend, textbook data API, and front-end interface.
- Managed a team of student marketers at Tufts, leading to over 9,000 pageviews in the first two weeks of operation.
- Plans to expand include schedule planning and textbook marketplace features.

**Tufts University Department of Computer Science**, Fall 2012–Present

*Teaching Assistant: Data Structures, S2014*

*Teaching Assistant: Problem Solving by Computer, F2013*

*Teaching Assistant: Machine Structure and Assembly Language Programming, S2013*

*Teaching Assistant: Introduction to Computer Science, F2012*

- Held office hours and assisted head TAs in the teaching of laboratory classes.
- Graded programming projects and homework.

## Skills

**Languages**

C, C++, Python, Standard ML, Scheme, HTML, CSS, JavaScript

**Tools**

L<sup>A</sup>T<sub>E</sub>X, Git, GitHub, GDB, Node.js, OS X, Windows, Unix/Linux, Adobe Creative Suite

*to view recently-completed projects and other ways to connect, visit <http://anthonymcannistra.com>*