

# 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.S., Computer Science and Biology (expected May 2015)

**GPA** 3.51/4.0 (Dean's List)

**Passions** The Great Outdoors (hiking, climbing, ecological conservation), understanding others by understanding their stories, collaborative and consensus-driven decision making, critically examining higher education and its greater purpose, the power and failures of the scientific method, thinking about how people use technology, supporting the spread and accessibility of great ideas, and reading powerful writing.

**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

## Experience (read more at <http://www.anthonycannistra.com>)

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

- Funded by Professors Benjamin Hescott, Lenore Cowen, and Mark Crovella (BU) for work on network-based protein function prediction and biological network alignment.
- 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.
- Currently writing scientific paper describing algorithms for submission to a peer-reviewed journal.

**Tufts Idea Exchange**, *Co-President*, Spring 2014

- Read applications, interviewed, and chose seven Tufts University undergraduates to share their ideas at our April TED-style forum, together with the TEX team and my co-President.
- Managed teams of speaker coaches who helped shape our speakers' ideas into a presentation.
- Filled one of Tufts' largest auditoriums for the event on April 9th, 2014, attracting hundreds of students and faculty alike to share in ideas together.

**TuftsLife**, *Project Lead*, Spring 2014–Present

- Gathered developers, designers, and concerned students to improve widely used University-centric event-sharing and classifieds site TuftsLife.com.
- Ensured that myriad groups across campus—students and administration alike—have their individual needs understood and satisfied.
- Began implementation for planned release in Fall 2014.

**CollegiateText**, *Co-Founder and Developer*, Spring 2013–Spring 2014

- Built textbook price comparison web site for students at Tufts University (<http://tuftstext.com>), Brandeis University, and Bentley University.
- Saw over 9,000 pageviews in our first week and totaled over \$50,000 in referral sales in our first semester.

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

- 4 Semesters: Data Structures, Problem Solving by Computer, Machine Structure and Assembly Language Programming, Introduction to Computer Science.
- Held office hours, labs, and graded programming assignments.

## 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