

# Anthony F. Cannistra

Tony.Cannistra@gmail.com (401) 793-0916

**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 (Dean's List)

**Coursework** Machine Structure and Assembly Language Programming, Data Structures, Programming Languages, Computational Biology, Animal Behavior, Algorithms, Genetics, Computation Theory, Evolutionary Biology, Neuroscience, Concurrent Programming (*upcoming*), Machine Learning (*upcoming*)

**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

## Experience

**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 results for submission to PLOS Computational Biology.

**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