Anthony F. Cannistra

Anthony.Cannistra@tufts.edu   (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
- Worked with Professors Benjamin Hescott, Lenore Cowen, and Mark Crovella (BU) 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.
- Managed event logistics such as venue reservation and audio-visual concerns.

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
- Held and managed creative user-focused design meetings and technical infrastructure meetings.
- Began implementation for planned release in Fall 2014.

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

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 LaTeX, 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://anthonycannistra.com