Anthony F. Cannistra

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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 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.

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.

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.

Brown University Center for Computational Molecular Biology, *Research Assistant*, Summer 2012

- Involved in algorithm design: efficient and accurate detection of genomic structural variants.
- Tested, improved, and redesigned existing algorithms with efficiency in mind.
- Advised by Professor Benjamin Raphael and Dr. Suzanne Sindi.

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`