

Anthony F. Cannistra

CONTACT INFORMATION

Anthony F. Cannistra
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EDUCATION

Tufts University Medford, Massachusetts USA

B.A. , Computer Science and Biology (expected graduation date: May 2015)
GPA: 3.53 (Dean's List all four semesters)

Moses Brown School Providence, Rhode Island USA

GPA: 3.67

WORK AND RESEARCH EXPERIENCE

Tufts University Computational Biology Research Group

May 2013–Present

Researcher

- 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.
- Wrote scientific paper describing results for submission to RECOMB 2014.

Tufts University Department of Computer Science

Fall 2012–Present

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.

The Laboratory of Benjamin Raphael at Brown University

Summer 2012

Providence, Rhode Island

Computational Biology Research Assistant

- Involved in algorithm design: efficient and accurate detection of genomic structural variants.
- Tested, improved, and redesigned existing algorithms with efficiency in mind.
- *Code available at* <http://gasv.googlecode.com>

LEADERSHIP POSITIONS

Association for Computing Machinery, Tufts Chapter

Spring 2013–Present

Executive Board Member

Tufts Idea Exchange

Spring 2013–Present

Executive Board Member

Tufts University Leonard Carmichael Society

Fall 2011–Fall 2012

Directional Staff Member: Transportation Coordinator

COMPUTING EXPERIENCE

Software: Adobe Photoshop, Microsoft Office Suite, Apple Software Suite, Apple XCode

Operating Systems: Unix/Linux, Mac OSX, Microsoft Windows (XP, Vista, 7)

Programming Languages: C, C++, Python, **bash**, Scheme, JavaScript, HTML, CSS, and \LaTeX

Recently Completed Projects: (see more here: <http://www.anthonycannistra.com>)

- <http://tuftstext.com>, a textbook price comparison tool for Tufts students
- A Virtual Machine written in the C programming language.
- An image compression/decompression software suite, written in the C programming language.
- Personal website. Designed and Built using responsive CSS templates.

HONORS AND AWARDS

Admission to PennApps Hackathon at the University Of Pennsylvania, 2013

Intuit Sustainability Prize – MIT/Harvard ID Hack, 2013

College Board Advanced Placement Distinguished Scholar Award, 2011

Admission to the National Cum Laude Society, 2011

Rhode Island Forensic League: Best Varsity Debater, 2011

VOLUNTEER
SERVICE

Cyclist and Fundraiser, *National Multiple Sclerosis Society, Rhode Island Chapter*
– Raised over \$8000 total in the June 2010, 2011, and 2012 150-Mile cycling tours.