

JULIA ROWE

919.265.4208
juliabrowe@gmail.com
github.com/juliarowe

EDUCATION

Expected 2016 Bachelor of Science - Tufts University Medford, MA
Majors in Computer Science & Physics
GPA: 3.20 Computer Science GPA: 3.38

Relevant Courses: Data Structures, Programming Languages, Machine Structure and Assembly Language Programming, Algorithms, Web Programming, Computational Physics, Computational Theory, Discrete Mathematics, Advanced Algorithms, Linear Algebra

EXPERIENCE

2015 - Present Tufts University ATLAS Group Medford, MA
Research Assistant

- Analyzing top quark and Higgs boson decay using the Support Vector Machine
- Comparing Machine Learning algorithms in decay events analysis

Summer 2015 Bose Corporation Framingham, MA
Web and Mobile Apps Development Intern

- Architected and developed a RESTful API to collect user navigation information throughout the SoundTouch application
- Fixed bugs and tested software for iOS, Android, and desktop versions of the application

Summer 2013 Behringer Lab at Duke University Durham, NC
Research Assistant

- Conducted experiments in granular physics, focusing on network theory and granular impact
- Analyzed data in MATLAB, primarily through image processing

LEADERSHIP

2015 - Present Tufts University Society of Physics Students Medford, MA
Webmaster

- Designing, improving, and updating the group's website

2014 - 2015 Tufts University Equestrian Team Medford, MA
Captain

- Managed weekly team meetings and organized fundraisers
- Coordinated hosting home competition between 13 teams and a NESCAC tournament between 8 teams

2013 - 2015 Tufts University Equestrian Team Medford, MA
Athletics Coordinator

- Acted as a liaison between the Tufts athletics department and the team
- Managed team budget

PROJECTS

Spring 2015 Higgs Boson and Top Quark Classification

- Compared various machine learning algorithms for performance and accuracy of particle classification
- Focused on using Support Vector Machines to classify multi-class data

Spring 2015 MIXR

- Web application for sharing and finding modifications to classic recipes

SKILLS

Programming: C, C++, Python, Javascript, HTML, CSS, Mathematica, LaTeX
Software: OSX, Linux, Adobe Creative Suite, Xcode
Other Technical: Git, SVN, Angular, jQuery, Mongo, Heroku, Weka
Foreign Language: Proficiency in French
Interests: Graphic Design, Photography, Skiing, Hiking, Travel