

# Liam Walsh

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liamcwalsh.github.io

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## Education

### Brown University, Providence RI

- Master of Science in Computer Science

Expected Graduation Date: May 2018

### Brown University, Providence, RI

Class of 2017

- Bachelor of Science in Applied Mathematics, GPA: 3.35
- Relevant Coursework: Statistical Inference I+II, Monte Carlo Simulation with Applications to Finance, Mathematical Intermediate Microeconomics, Operations Research: Probabilistic Models, Macroeconomics, Integrated Intro to Computer Science, Computational Probability and Statistics, Graphs and Networks, Data Science, Computer Vision

### Boston College High School, Dorchester, MA

Class of 2013

- 4.302 GPA, Top Ten Graduating Student

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## Leadership Experience

### CSCI0170/0180 Teaching Assistant

Providence, RI. Spring 2016-Spring 2017

- CSCI0170/0180 is the accelerated intro course sequence within Brown's CS dept. teaching functional programming with Racket and OCaml in the first semester, and object oriented programming in the second semester with Java and Scala, as well as fundamental computer science topics and good coding practices
- Held office hours to answer student questions regarding course material and assignments
- Graded homework, projects, and labs
- Redesigned projects to better suit course goals, and wrote test suites for use on student projects in OCaml, Racket, Java, and Scala

### Algebra in Motion In-Class Tutor, Volunteer Representative

Providence, RI. Spring 2015-Present

- Volunteered as an aid to the teacher of a local high school multiple days a week
- Assisted in math and science classes with sizes 15-30 students
- Facilitated weekly meetings of 20 volunteers and acted as a point of contact and resource for those volunteers

### Brown University Dining Services (BuDS), Supervisor

Providence, RI. Spring 2015-Present

- Supervisor duties include training new workers, overseeing other workers, and picking up shifts as necessary
- Received 3 official commendations for my work

### Brown University Dining Services (BuDS), Unit Manager

Providence, RI. Spring 2016

- Managed the schedules of and oversaw 20 workers and 6 supervisors
- Ensured the smooth operation of the whole eatery, in conjunction with the Brown Dining Services professional managers
- Administered interviews for new supervisors and performance evaluations for current supervisors twice a semester
- Created training manuals for workers, supervisors, and future managers

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## Quantitative Experience

### Dassault Systèmes, Portfolio Management Intern

Waltham, MA. Summer 2016

- Analyzed large sales and website traffic datasets with Excel, VBA, and Tableau
- Tasked with finding meaningful patterns within large and varied datasets
- Coordinated with other interns in the department to best complete large tasks effectively and in a timely manner
- Compiled my findings into PowerPoint and presented non-technical summaries to others in the department

### Brown Mathematical Contest for Modeling

Providence, RI. Fall 2015

- In a group with 2 others, tasked with creating the best model for 1 of the 2 given problems in just 2 days
- Our problem was related to the cost and logistics of hosting 100,000 refugees for 6 months
- Combined research with multiple statistical methods to create a comprehensive cost model
- Compiled our findings into a detailed report using LaTeX, including a single page, non-technical summary

### Protobi, Intern

Cambridge, MA. Summer 2015

- Researched math topics related to pricing optimization, and presented my findings to clients
- Participated in conference calls and meetings with the executives of client firms, alongside the founder of Protobi
- Using Protobi software, prepared client datasets to their specifications, as well as answered any questions they had

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## Skills and Interests

**Technical:** Proficient in Windows and Mac OS; Basic knowledge of UNIX/Linux

Microsoft Office proficiency: Word, PowerPoint, and Excel

Advanced knowledge of: MATLAB, Scala, OCaml, Python

Intermediate knowledge of: Java, Tableau, SQL

**Interests:** Artificial Intelligence, Biking, Skiing, Cooking