

# LIAM E. ABBOTT

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## EDUCATION

**University of Michigan**  
*Master of Science in Applied Statistics*

**Ann Arbor, MI**  
*Awarded December 2015*

**Williams College**  
*Bachelor of Arts in Mathematics*

**Williamstown, MA**  
*Awarded June 2013*

## EXPERIENCE

**Broad Institute of MIT and Harvard**  
*Associate Computational Biologist*

**Cambridge, MA**  
*July 2016 – Present*

- Led execution of a project conducting genetic association studies for thousands of traits across hundreds of thousands of individuals using data from the UK Biobank ([www.nealelab.is/uk-biobank](http://www.nealelab.is/uk-biobank))
- Created a public database of genetic datasets uniformly formatted for use with the open-source software framework Hail (<https://hail.is/docs/0.1/annotationdb>)
- Contributed to analyses of damaging and disruptive rare genetic mutations in case-control genetic sequencing studies of amyotrophic lateral sclerosis, epilepsy, and bipolar disorder
  - *Enrichment of rare protein truncating variants in amyotrophic lateral sclerosis patients* ([www.biorxiv.org/content/10.1101/307835v2](http://www.biorxiv.org/content/10.1101/307835v2))
  - *Ultra-rare genetic variation in the epilepsies: a whole-exome sequencing study of 17,606 individuals* ([www.biorxiv.org/content/10.1101/525683v1](http://www.biorxiv.org/content/10.1101/525683v1))

**Deloitte Consulting LLP**  
*Data Scientist*

**Boston, MA**  
*January 2016 – July 2016*

- Developed Tableau dashboard visualizations and Python scripts to wrangle the data populating the dashboards for various clients

**University of Michigan**  
*Graduate Student Instructor*

**Ann Arbor, MI**  
*August 2014 – December 2015*

- Taught lab sections and held office hours for “Introduction to Statistics and Data Analysis”

**TripAdvisor, Inc.**  
*Analytics Intern*

**Needham, MA**  
*May 2015 – July 2015*

- Developed Amazon Redshift data warehouse tables, automated the weekly update process of the tables, and designed and built Tableau dashboards to visualize the data from the tables

**Eaton Vance Management**  
*Research Associate*

**Boston, MA**  
*July 2013 – July 2014*

- Analyzed primary issuance of secured corporate loans and conducted fundamental research on the issuing companies to recommend including or excluding the loans from Eaton Vance funds

## CERTIFICATES & AWARDS

- Stellar Abstract Award, Harvard Department of Biostatistics, “*Rapid GWAS of Thousands of Traits in the UK Biobank*”, Program in Quantitative Genomics conference, November 2018
- Completed deeplearning.ai’s 5-course deep learning specialization, Spring 2018
- Passed the Chartered Financial Analyst (CFA) Level 1 examination, December 2012

## TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Bash, Javascript, HTML, CSS
- **Frameworks:** Spark, Hail, pandas, numpy, ggplot2, dplyr, Flask, Vue.js, Bootstrap
- **Platforms:** Linux, macOS, Git, Google Cloud, Univa Grid Engine, Tableau