

Kevin Freeman

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Education

Northeastern University

Boston, MA

Candidate for Master of Science Degree in Bioinformatics

May 2019

GPA: 4.0

Relevant Coursework: Bioinformatics Methods 1 and 2, Bioinformatics Programming, Statistics for Bioinformatics, Advanced Genomics, Introduction to Machine Learning

Northeastern University

Boston, MA

Bachelor of Science Degree in Biology

August 2017

GPA: 3.38

Awards and Honors: National Merit Scholar, Honors Program

Skills

Programming Languages: Perl, R, Bash, Python

Other Skills: Linux, Git, machine learning, computer vision, genomic data analysis

Experience

Lotterhos Lab at Northeastern University

Nahant, MA

Bioinformatics Research Assistant

February 2018 - Present

- Built pipelines to assess different genome scan methods used in population genetics analysis as part of the NSF-funded project “Test the Tests”
- Created a pipeline that uses computer vision techniques to analyze images of oyster larvae to collect morphological data
- Developing a machine learning classifier for classifying SNP data by type of mutation
- Writing population genetics simulations to train and test the classifier

Northeastern University

Boston, MA

Teaching Assistant

September - December 2017

- Taught a General Biology 1 lab to 19 undergraduate students on topics including bacteriology, microscopy, bioinformatics, and enzyme kinetics
- Graded assignments and managed the course website. Maintained an Excel spreadsheet of grades
- Reliably and effectively answered student questions verbally and over email

Boston Beer Company

Jamaica Plain, MA

Quality Assurance Co-op

January – July 2017

- Aseptically took and plated necessary microbiological samples on aerobic and anaerobic media
- Analyzed beer characteristics such as ABV and bitterness to ensure it met targets for the recipe
- Maintained, calibrated, and troubleshoot lab equipment

Oranjezicht City Farm

Cape Town, South Africa

Education Co-op

February – June 2016

- Led school tours, instructing students in farming, healthy eating, and nature
- Redesigned and expanded the education section of the farm’s website, www.ozcf.co.za
- Maintained a database of 30+ subscribers to the farm’s veg box program