# Miles V. Vollmer

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 $\underline{https://www.linkedin.com/in/miles-vollmer-192aa0223/} \parallel \underline{https://github.com/mvvollmer/mvvollmer}$ 

Availability: January - June 2022

### **EDUCATION**

Northeastern University | Boston, MA

2020 - present

## **Khoury College of Computer Sciences**

Candidate for a Bachelor of Science in Computer Science with AI Concentration (Expected Graduation: 2024)

<u>Relevant coursework</u>: Object-Oriented Design, Algorithms, Math of Data Models, Discrete Structures, Fundamentals of Computer Science I & II, & Intro to Math Reasoning

# Beverly High School, Beverly, MA

2016 - 2020

Honors | National Honor Society, Academic Excellence in World History & PreCalculus

Extracurricular | Academic: Math Team (Captain), Climate Committee Soccer: Varsity, Aztec Club, Valeo Club

### TECHNICAL SKILLS

<u>Languages</u>: Java, Python, HTML, CSS, R, C++ <u>Operating Systems</u>: MacOS, Windows, Unix/Linux

ML Packages: Scikit, PyCaret, SHAP

### RESEARCH EXPERIENCE

# Research Assistant - Evolutionary Genomics Lab, Northeastern University

May - Sept 2021

Supervisors: PI Dr. Steve Vollmer, Postdoc Dr. Charles Roesel and PhD student Brecia Douglas

- Created and optimized machine learning models on 16s bacterial amplicon sequencing data from a coral disease system to identify bacteria associated with coral health using python-based ML packages including scikit and pycaret.
- Developed a Random Forest Model with 99% disease prediction accuracy.
- Identified key features (and novel putative bacterial pathogens) associated with disease using SHAP values.
- ML results are currently being prepped for a multi-author publication with me as co-author.

### WORK EXPERIENCE

After School Care Provider & Camp Counselor, Lynch Van Otterloo YMCA, Marblehead, MA

Jan - Sept 2020

• Planned, led, and implemented educational and recreational programs for K-6 graders; CPR/First Aid trained.

Soccer Referee, US Officials and Essex County Youth Soccer Association

2017 - 2020

• Refereed youth club and town soccer including elite NPL club level.

# Storefront Employee, CVS Pharmacy, Marblehead, MA

Sept - Dec 2019

• Delivered quality customer service, managed the front of store and stocking.

#### INTERESTS

Playing and watching soccer(Chelsea fan), Scuba Diving, Surfing, Chess, and watching True Crime shows on Netflix.

## REFERENCES

Available upon request.