

ZORIAN THORNTON

zorian15.github.io

Ph.D Student, Genome Sciences, Seattle, WA

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EDUCATION

University of Washington - Seattle, WA

Sep. 2019 - Present

Ph.D in Genome Sciences

Virginia Tech - Blacksburg, VA

Aug. 2015 - May 2019

B.Sc Statistics

GPA: 3.7 / 4.0

Virginia Tech - Blacksburg, VA

Aug. 2015 - May 2019

B.Sc Computational Modeling and Data Analytics

GPA: 3.6 / 4.0

Minors in Mathematics and Computer Science

WORK EXPERIENCE

Adaptive Biotechnologies

Seattle, WA

Antigen Map Project Machine Learning Intern

June 2022 - Aug. 2022

- Benchmarked performance of semi-supervised learning methods for binary classification of T cell receptor binding specificity.

Fred Hutchison Cancer Research Center

Seattle, WA

Doctoral Candidate, advised by Frederick Matsen IV

July 2021 - Present

- Developing computational and machine learning tools to study the impact of mutations on pathogen fitness and human immunity.

Virginia Tech Statistical Applications and Innovations Group

Blacksburg, VA

Associate Collaborator

June 2019 - Sept. 2019

- Statistical consultant to Virginia Tech graduate students and faculty. Assisted clients with data cleaning, visualization and statistical inference tasks.

Nielsen

Chicago, IL

Data Science Intern

June 2018 - Aug. 2018

- Implemented a statistical framework to identify and correct possible OCR errors in scanned receipt data to ensure integrity of panelist purchase data.

Virginia Tech Math Emporium

Blacksburg, VA

Instructional Assistant

Jan. 2017 - Aug. 2018

- Teaching assistant for introductory math courses including differential and integral calculus, graph theory, differential equations, and linear algebra.

PROGRAMMING LANGUAGES, TOOLS, AND CONCEPTS

Preferred Programming Languages

Python, R

Numerical Tools

PyTorch, numpy, pandas, PySpark

Dev Tools & Environments

Git, Jupyter, Visual Studio Code

Other Programming Languages

Java, MATLAB, PHP, SAS, SQL

PUBLICATIONS

A current list of publications can be found at my Google Scholar page