

ALEX STERN

Graduate School of Data Science, University of Virginia

✉ acs4wq@virginia.edu
📧 alexcstern

☎ 757-775-9690

📍 Charlottesville, Virginia

🐦 @_alex_stern_



EXPERIENCE

Football Analytics Consultant

University of Virginia Football Team

📅 July 2019 – Ongoing 📍 Charlottesville, Virginia

- Co-developed a website that allows coaches to interact with and manipulate visualizations to assist with game-planning
- Developed predictive models for opponent prospecting and game-planning purposes
- Relayed descriptive statistical research to the coaching staff in a colloquial manner that was easy to digest
- Developed efficiency measures for self-scouting purposes

Teaching Assistant, Software Development Methods

University of Virginia, Department of Computer Science

📅 January 2019 – May 2019 📍 Charlottesville, Virginia

- Assisted students during office hours with homework, projects, and technical questions related to software development in Java
- Participated in a TA practicum course to learn how to better assist students

Data Science Intern

Havas Helia

📅 May 2018 – August 2018 📍 Richmond, Virginia

- Built customer lookalike models used both for in-house tests and by clients
- Wrote Python packages to aid in the retrieval and manipulation of SQL Server data

PUBLICATIONS

Practical Applications of Space Creation for the Modern NFL Franchise

National Football League (Big Data Bowl, 2020)

A statistical research paper utilizing NFL player tracking data to describe the quantitative/algorithmic measurement of space creation by offensive linemen for ball carriers and the consequential monetary discrepancies between a more advanced player grading system and current player salaries.

<https://www.github.com/alexcstern/Big-Data-Bowl/blob/master/BigDataBowl.pdf>

MOST PROUD OF



Finalist, NFL Big Data Bowl 2020

Player Scouting Algorithm Using Player Tracking Data

- Presenter: 2020 NFL Combine



A Data Science Student's Algorithm Has the NFL's Full Attention

<https://news.virginia.edu/content/data-science-students-algorithm-has-nfls-full-attention>



Honorable Mention, Sports Info Solutions Football Analytics Challenge

Multi-Level Player Value Evaluation Model



Finalist, UVA Machine Learning for Good

Sign Language Recognition Algorithm

STRENGTHS

Python

R

Java

C++

SAS

SQL

Statistical Analysis

Bayesian Inference

Machine Learning Algorithms

Image Recognition

Graphical Models

Computational Efficiency

Data Structures

Pure Functional Programming

LaTeX

LANGUAGES

English



Spanish



EDUCATION

M.S. Data Science

University of Virginia

📅 July 2020 – May 2021

B.A. Quantitative Statistics, Computer Science

University of Virginia

📅 August 2017 – May 2020

- Dean's List of Distinguished Students