

ALEX STERN

Graduate School of Data Science, University of Virginia

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EXPERIENCE

Football Analytics Intern

University of Virginia Football Team

July 2019 – Ongoing Charlottesville, Virginia

- 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 in a more advanced player grading system and current player salaries.

<https://www.github.com/alexcsstern/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



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

LANGUAGES

English ● ● ● ● ●

Spanish ● ● ● ● ●

EDUCATION

M.S. Data Science

University of Virginia

July 2020 – May 2021

B.A. Quantitative Statistics, Computer Science (Minor)

University of Virginia

August 2017 – May 2020

- Dean's List of Distinguished Students