ALEX STERN

Graduate School of Data Science, University of Virginia

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in alexcstern   ⌽ alexcstern

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/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

🏆 **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 (Minor)
University of Virginia

📅 August 2017 – May 2020

- Dean's List of Distinguished Students