

# JOSEPH WYSOCKI

DATA SCIENTIST

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## EMPLOYMENT HISTORY

### UVA SCHOOL OF DATA SCIENCE APRIL '21 - PRESENT HEAD OF CURRICULUM DEVELOPMENT - MINDS PROGRAM

- Led the development of a university course to teach data science skills to neurodiverse individuals
- Developed tutorials and produced instructional videos covering the basics of Python programming

### UNIVERSITY OF VIRGINIA FOOTBALL JULY '20 - MARCH '21 RESEARCH ANALYST

- Designed, implemented, and maintained a website that houses all internal scouting reports
- Developed proprietary metrics and reports to enable the strategic analysis of opponents
- Created statistical models to predict future performance of student athletes
- Performed ad hoc analysis for all members of the coaching staff

### PLANTE MORAN FINANCIAL ADVISORS AUG '17 - SEP '19 ADVISOR - ULTRA-HIGH NET WORTH PRACTICE

- Actively managed over \$1 billion in client assets
- Calculated and analyzed the risk tolerance profiles of client investment portfolios

### UNIVERSITY OF MICHIGAN FOOTBALL MAY '16 - DEC '16 STRATEGIC DATA ANALYST

- Developed an automated internal reporting process to facilitate long-term strategic planning
- Designed and prepared data visualizations for presentation to management

## PUBLICATIONS

N Aaron, P Singh, S Surapaneni, J Wysocki, (2021). Mutational Hotspot Detection in LGL Leukemia. *Systems and Information Engineering Design Symposium (SIEDS), 2021*

## SPECIAL PROJECTS

**Optimizing Talent Evaluation for UVA Football**  
Used Bayesian hierarchical modeling techniques to project future performance of NCAA football athletes

**Whole Genome Visualization**  
Created an interactive visualization of single nucleotide polymorphisms across whole-genome data for LGL cancer patients

**K-Means Clustering for Color Palette Creation**  
Extracted color palettes from images using clustering algorithms and image processing techniques

**Neural Networks for Player Evaluation**  
Constructed a convolution neural network with quantile regression to predict outcomes on spatiotemporal football data

## EDUCATION

**M.S. DATA SCIENCE**  
University of Virginia, 2021  
GPA: 3.90/4.00

**B.S. FINANCE**  
Oakland University, 2017  
GPA: 3.89/4.00

## TECHNICAL SKILLS

R Programming  
Python  
SQL  
Data Cleaning  
Data Visualization  
Tableau  
Data Mining

## LEADERSHIP

**SPECIAL OLYMPICS MICHIGAN**  
Head Basketball Coach  
**MCINTIRE LITTLE LEAGUE**  
Baseball Manager  
**OU SPORTS ANALYTICS CLUB**  
Professional Advisor

## AWARDS

**OAKLAND UNIVERSITY**  
Presidential Scholar  
Ronald M. Horowitz Finance Award  
**PLANTE MORAN**  
Above and Beyond Award