

# Kushal Shah

✉ kushalcshah@outlook.com  [linkedin.com/in/kushalcshah/](https://www.linkedin.com/in/kushalcshah/) ☎ 203-809-6262  [github.com/kushlaaaa](https://github.com/kushlaaaa)

## EDUCATION AND HONORS

### Masters of Science Applied Data Science

Syracuse University

- Current GPA: 4.0
- Graduation: May 2022

### Double Major; Bachelor of Science Sport Analytics and Economics

Syracuse University, 2018-2021

- GPA: 3.9, Summa Cum Laude
- [Falk](#), Founder's, Success, and Berlin Scholar
- Dean's List Every Semester



## RESEARCH PROJECTS

### Defining Offensive & Defensive College Basketball Player Positions | September 2020 | [GitHub Link](#)

- Lead a project that used Model-Based Clustering, Random Forests, and Logit Models to accurately define positions to maximize team success
- Predicted an overall **70% of games correctly** for March Madness from 2008 to 2018
- This paper was presented at the **2020 Midwest Sport Analytics Conference** and **Carnegie Mellon Sport Analytics Conference**

### A Poisson Betting Model with a Kelly Criterion Optimizer for European Football | May 2020 | [GitHub Link](#)

- This paper was presented at the **2021 MIT Sloan Sports Analytics Conference**.
- **Best Undergraduate Paper** at the **2021 Academy of Economics and Finance Conference**
- Created a betting model for European Football that used Machine Learning and a self-made Kelly Criterion Optimizer
- This paper was presented at the **2020 Midwest Sport Analytics** and **2020 Carnegie Mellon Sport Analytics Conference**

### Advanced Real Plus Minus for Soccer | May 2020 | [GitHub Link](#)

- Lead a project to create a metric that evaluated Premier League players accounting for the strength of opponents and teammates.
- The paper received an **honorable mention** at the **2020 CMSAC Reproducible Research Competition**
- This paper was presented at the **2020 Midwest Sport Analytics Conference** and **Carnegie Mellon Sport Analytics Conference**

## WORK EXPERIENCE

### Analytics Intern | RSPCT

Remote | June 2021 – Present

- Expanded upon the **research and development** of the RSPCT's theoretical framework in R
- Creating and **improving research and production tools** for customers utilizing RSPCT's backboard interface

### Data Analyst | FC Wil 1900

Remote | April 2021 – Present

- Identify undervalued players with a high selling potential using different **Machine Learning models**
- Analyze **play style and patterns** among the Swiss Challenge League to understand **new trends in the league**

### Falk Researcher | Syracuse University Falk College

Syracuse, NY | August 2020 – Present

- Compiled **web scrapes using selenium** and other packages to collect data (Odds, Fantasy Sports, etc.)
- Evaluating ticket pricing for **SU Athletics**

### Scouting Director | SU Women's Basketball

Syracuse, NY | Sept 2018 – Present

- Lead a group of students to create detailed, data based, **scouting reports for coaches**
- Currently creating a **shiny app** to view data from **Synergy Sports** in an effective manner

### Founder and President | SU Soccer Analytics Club

Syracuse, NY | Sept 2018 – May 2021

- Conduct meetings and oversee a group of students to conduct **data centric research projects** related to soccer
- **Founder** of twitter account [@CuseAnalytics](#) and the [Syracuse Sport Analytics Website](#) as platforms to share student work

### Football Operations Game Research | XFL

Remote | October 2019 – March 2020

- Analyzed NFL and XFL game film recording in game statistics and time related data to **recognize the impact of rule changes**

## SKILLS

- Extremely Fluent in using **R** and **R Studio**
- Adept with the use of complex **Machine Learning Modelling Techniques**
- Proficient in using **SQL** and **Python**
- Expert in the use of **Microsoft Office Applications**
- Extremely Adept with **Tableau**