Lucca Ferraz

Lbf5@rice.edu | https://linkedin.com/in/lucca-ferraz | https://lucca-ferraz.github.io/www/ | (828)505-6959

EDUCATION

Rice University *Houston, Texas*
Bachelor of Arts in Sport Analytics/Statistics Expected Graduation: June 2026
Minors in Business/Data Science/Financial Computation and Modeling **GPA: 3.8 / 4.0**
Clubs and Activities: Rice Club Basketball, Sports Data Modeling Club, Chess Club, Rice Finance Training Program, Rice Sports Analytics Team
Skills: Python, R, SQL, Stan, Excel, Power BI
Languages: Portuguese, Spanish

Charles III University of Madrid *Madrid, Spain*
Study Abroad August – December 2024

PROFESSIONAL EXPERIENCE

Tampa Bay Rays *Saint Petersburg, Florida*
Research and Development Intern January 2025 - Present
- Designing statistical models and quantitative analyses to support player evaluation, player development, and strategic decision-making
- Improving upon existing measures of data quality assurance to validate incoming park-level data
- Developing strong skills in statistical modeling and quantitative analysis of a variety of data sources

Carnegie Mellon University Department of Statistics and Data Science *Pittsburgh, Pennsylvania*
Undergraduate Researcher June - July 2024
- Selected for 8-week summer research experience for undergraduate students focusing on applications of statistics and data science in sports
- Developed skills in statistical and data science methodology, data engineering, and communicating results
- Created final research paper, presentation, and poster presented at end of program and at 2024 CMU Sports Analytics Conference
- Capstone Project: "Examining batted passes in the NFL: A hierarchical approach to explaining variance of an unlikely event" (Advisor: Dr. Ron Yurko)

Montgomery Sports Group *Fully Remote*
Basketball Analytics Intern June – August 2023
- Created over 15 detail video and written scouting reports on both current and potential clients used in meetings with players
- Evaluated prospects with Synergy Sports data and film analysis to predict potential NBA success and earnings
- Added over 50 new potential prospects to database with detailed scouting reports and player backgrounds for each prospect
- Mapped NBA free agency moves to determine ideal locations and opportunities for clients
- Created an in-depth pitch deck for a potential NBA client that was used in meeting with client

Rice Football *Houston, Texas*
Video Operations / Recruiting and Scouting / Football Analytics Intern August 2022 - Present
- Developing analytics-based scouting reports for coaches as well as statistical models for projecting transfer portal targets
- Working on a web application using R and Shiny to further automate the opponent scouting process
- Assisted in scouting every Texas Class of 2024 high school prospect
- Led prospects and potential recruits on tours, official and unofficial visits
- Recorded and compiled film of Rice Football practices and games for coaches to analyze

PROJECTS

TEndencIQ: A Continuous Evaluation of Tight End Blocking Probabilities September 2024 - January 2025
2025 NFL Big Data Bowl
- Utilized Recurrent Neural Networks to produce frame-by-frame estimates for tight end block rates
- Classified different pre-snap motion types using a Gaussian Mixture Model
- Named as one of five finalists from a pool of over 400 submissions

Batted Passes in the NFL: A Hierarchical Approach to Explaining Variance of an Unlikely Event June – July 2024
Carnegie Mellon Sports Analytics Camp Capstone Project
- Utilized a mixed effects logistic regression model to explain what causes batted passes in the NFL
- Created rankings of quarterbacks best and worst at avoiding batted passes through random effect coefficient estimates
- Presented work at 2024 Carnegie Mellon Sports Analytics Conference

Optimizing Batting Order Across Minor League Baseball May – August 2024
2024 SMT Data Challenge
- Created novel game simulation approach for estimating expected runs for a given batting lineup and order
- Incorporated various aspects of baseball including baserunner speed, pitcher fatigue, directional tendencies, and more
- Developed R Shiny app allowing decision makers to input a given lineup and output the estimated runs scored