

Billy Fryer

[Website](#)
[GitHub](#)
[Email](#)
[LinkedIn](#)

PROFESSIONAL CODING EXPERIENCE

Sports Reference ([Link](#)) May 2022 – August 2022
Data Intern

- Researched over 350 colleges historical women's basketball teams back to 1982 NCAA and AIAW merge
- Contributed data to the newest and largest collection of college women's basketball data for new Sports Reference website
- Inserted data to Sports Reference database by querying with MySQL

John Deere May 2021 – August 2021
Data Science and Analytics Intern

- Applied Bayesian priors to risk analysis problems to improve forecasting
- Visualized forecasting intervals with R Shiny Apps for team and external use

TEAM EXPERIENCE

NC State Women's Basketball July 2021 – Present
Data and Video Analyst

- Pioneered women's college basketball with the first automated advanced statistical reports to win the ACC Championship and reach the Elite 8
- Created localized app for in game play tracking analysis
- Labeled over 2000 clips per opponent per season for scouting

NC State Baseball February 2020 – Present
Data Analyst

- Developed Trackman data pipeline from FTP site
- Reduced time to create weekly scouting reports from 8 hours per report to 2

UNDERGRADUATE RESEARCH AND OTHER PROJECTS

Should I Stay or Should I Go? ([Link](#)) Summer 2022

- Created model to evaluate decision making of baserunners attempting to advance 2 bases using SMT Minor League Baseball Tracking Data
- Winner of Undergraduate Division for the SMT Data Challenge and presented at UConn Sports Analytics Symposium poster session

Beijing 2022 Biathlon Mass Start Clustering ([Link](#)) Spring 2022

- Clustered biathletes from the 2022 Beijing Winter Olympics Mass Start event using k-means algorithm

Rule changes affecting extra inning game length in Pioneer Baseball League ([Link](#)) Fall 2022

- Utilized analysis of variance to look at the effects of a home run derby replacing extra innings in the Pioneer Baseball League
- Received honorable mention at UConn Sports Analytics Conference poster session

EDUCATION

North Carolina State University

Double Major:
Statistics BS
Spanish BA

May 2023, 4.0 GPA

Notable Awards/Honors

– Outstanding Senior in Spanish
(2022)

– Department of Statistics

Undergraduate Graduation
Marshal (2022)

– NC State College of Sciences
“Think and Do” Feature Student

Article (2022, [Link](#))

– Francis E McVay-Scope Scholarship
and Solomon Scholar (2019–23)

Extracurriculars

Teaching Assistant (Fall 2020)

Sports Analytics Club President

Stats Club Vice President

College of Sciences Ambassador

SKILLS

Spanish

R

SAS (Base Certified)

Python

MySQL / SQL

Power BI

Tableau

R PACKAGE CONTRIBUTIONS

hoopr

- Pulled data from NBA G League API
- Functions published to CRAN

FHSTR

- Pulled data from NBC Winter Olympics API
- First known Olympics Data Package
- Created accompanying pkgdown website ([Link](#))