

# Beckett Sanderson

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Availability: July - December 2023

## EDUCATION

**Northeastern University**, Boston MA

Expected May 2025

**Khoury College of Computer Sciences**

Candidate for BS Degree in Data Science and Economics Combined with Honors

**3.95/4.0 GPA**

- Minor in Sports Media and Communications

- *Awards*: Honors College Member, Dean's List each semester (Fall '21, Spring '22, Fall '22, Spring '23)

- International study abroad in the Atacama Desert/Antofagasta, Chile (July '22) with Novel Antibiotic Discovery course

*Related courses*: Data Science Beginner, Intermediate, and Advanced Programming with Data, Foundations of Data Science, Information Presentation and Visualization, Database Design, Economics Statistics, Econometrics, Sports Economics

## TECHNICAL SKILLS

**Languages:** Python | SQL | R | Java | HTML

**Libraries:** Pandas | SciKit-Learn | Matplotlib | Seaborn | Plotly | Numpy | Altair

**Software:** PyCharm | Jupyter Notebooks | Tableau | R Markdown | Excel | Git | STATA | Anaconda | MongoDB

## EXPERIENCE

**Sustainability and Social Change Lab**, Boston, MA

January 2023 - Present

*Research Assistant*

- Research social and political barriers to the design and implementation of effective social and environmental policy
- Conduct literature reviews on Postdoc project related to Intergenerational Goods Games along with a meta-analysis of different economic games with the end goal to create a Goods Game and analyze empirical data using Python

**Northeastern DATA Club**, Boston MA

January 2022 - Present

*Project Member*

- Develop a research project applying Python-based data analytics and machine learning techniques to topics of interest with the goal of presenting at the Northeastern RISE convention in Spring semester
- Modeled a 2022 NBA playoffs simulator using SciKit-learn linear regressions and CSV Basketball-Reference data

**Red&Black Sports Magazine**, Boston MA

September 2021 - Present

*Deputy Editor and Writer*

- Communicate with editorial team to strategize story selection for each sports magazine issue (bi-annual distribution)
- Coach 3-4 writers by managing timelines and editing articles and conduct 2-3 club writing workshops each semester
- Complete the writing cycle to author and publish one article per issue: pitch, interview, write, edit, and graphic design

## PROJECTS

**Foundations of Data Science, NBA Playoff Predictor**

January 2023 - April 2023

- Scraped and cleaned 50+ public NBA datasets spanning from 2010-present with Pandas Python library and mapped teams to scraped playoff success data in each corresponding year before saving to CSV file
- Predicted results of the 2023 NBA Playoffs comparing machine learning techniques of multiple regression, K-Nearest Neighbor, and Random Forest using SciKit-learn Python library
- Optimized models with hyperparameter tuning and feature importance and created bracket visualization of final output

**Advanced Programming with Data, General Manager Simulator**

September 2022 - December 2022

- Designed functional NFL general manager simulator using Plotly and SciKit-learn Python libraries allowing users to draft a team under league salary cap and compare to past teams with supervised machine learning regression
- Built user functionality to filter, sort, search, add/remove players as well as radar chart and field view visualizations
- Utilized BeautifulSoup and Pandas Python libraries to web scrape and clean 50+ public datasets for Dashboard

## ADDITIONAL INFORMATION

- Creator of the Hoop on the Roof podcast and write sports articles for fun: <https://beckettsanderson.wixsite.com/mysite>
- Assistant Coach – Philadelphia City Rowing | Site Manager - Philly Christmas Trees | Teacher - Trapezium Math Club
- *Interests*: Sports | Northeastern Club Basketball | Photography | Writing | Card Magic | Guitar | Chess | Nature