

Sasha Richardson

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EDUCATION

Master of Arts in Digital Humanities - Data Visualization & Mapping Expected May 2027
CUNY Graduate Center New York, NY

Master of Science in Business Analytics - Data Analytics | GPA: 3.6/4.0 May 2024
Baruch College, Zicklin School of Business New York, NY

Bachelor of Science in Computer Science | GPA: 3.9/4.0 May 2021
Fayetteville State University Fayetteville, NC
Honors: Summa Cum Laude

RESEARCH EXPERIENCE

Research Assistant February 2025 – Present
Medgar Evers College Brooklyn, NY
Project: Environmental Justice & Congestion Pricing

- Drive end-to-end data workflows: collect, clean, and merge traffic volume, air-quality, and demographic datasets to quantify pollution exposure across NYC neighborhoods.
- Design and build interactive visualizations (Tableau, Matplotlib) that translate complex findings into clear, policy-ready insights.
- Collaborate with a multidisciplinary research team to refine methodology and interpret results to advance environmental equity in urban transportation planning.

Data Science Research Intern May 2022 – Aug. 2022
Marron Institute, New York University Brooklyn, NY

- Built MySQL databases to store and organize datasets for analyzing criminal justice outcomes, enabling seamless integration with R for advanced analytics.
- Conducted data analyses using R to identify patterns in justice reform data, resulting in actionable policy recommendations.
- Designed RShiny dashboards to visualize findings, improving stakeholder engagement and facilitating informed decision-making.

Undergraduate Research Assistant May 2020 – Jun. 2020
Polo Club of Data Science, Georgia Institute of Technology Atlanta, GA
[github/people-map](https://github.com/people-map)

- Developed PeopleMap, a Python- and JavaScript-based visualization tool for analyzing faculty expertise through dimensional reduction.
- Applied natural language processing to academic profiles, streamlining exploration of collaboration opportunities.
- Delivered a functional prototype that increased efficiency in identifying interdisciplinary research connections.

Undergraduate Research Fellow

May 2019 – Jul. 2019

Summer Undergraduate Research Fellowship, University of Arkansas for Medical Science Little Rock, AR

Plasma metabolomics in a nonhuman primate model of abdominal radiation exposure

- Designed data cleaning algorithms in R for high-dimensional metabolomics datasets, enabling efficient processing of over 600 features.
- Analyzed biomarkers using statistical methods, contributing to significant findings on radiation exposure in nonhuman primates.
- Visualized findings to communicate critical insights to interdisciplinary audiences, bridging data science and biological research.

PROFESSIONAL EXPERIENCE

Assistant Program Coordinator

Jul. 2024 – Present

CUNY Innovative Career Opportunity and Research Program (ICORP), Medgar Evers College Brooklyn, NY

- Mentor students in mastering quantitative data analysis and conducting research, significantly enhancing their technical skills and academic confidence.
- Design and implement data tracking tools to monitor students' progress, ensuring precise and up-to-date program evaluations.
- Contribute to curriculum development initiatives, including crafting timetables to prepare students for graduate school applications, and fostering their academic and professional growth.

Data Platforms Student Associate

Oct. 2023 – Apr. 2024

Madison Square Garden Entertainment

New York, NY

- Developed and implemented SQL dbt models to integrate data from third-party vendors into Redshift data warehouse, improving the accuracy and efficiency of data analysis processes.
- Conducted data auditing, resulting in the identification and resolution of critical data integrity issues in Food and Merchandise data, ensuring reliable and trustworthy insights for decision-making.
- Automated workflow processes using Apache Airflow, reducing manual intervention and streamlining data pipelines.

Data Analyst Intern, Risk Management

Jun. 2023 – Aug. 2023

ING Financial Services

New York, NY

- Analyzed profit and loss statements, providing in-depth insights into revenue generation and cost management, leading to actionable recommendations.
- Designed and implemented a reporting dashboard using Python and SQL, resulting in improved data accuracy and streamlined processes. This initiative led to a 25% decrease in reporting cycle time, enabling timely decision-making.
- Prepared consolidated income and market risk reports across Financial Markets and Bank Treasury business units, ensuring accuracy and providing insightful information for management.

Data Assistant

Caribbean Research Center, Medgar Evers College (CUNY)

Jun. 2022 – Jun. 2023

Brooklyn, NY

- Digitized and organized over 2000 historical records, creating a centralized database system that facilitated efficient data retrieval and analysis.
- Spearheaded data aggregation for a mailing list database of 800+ contacts, significantly expanding organization outreach capabilities, resulting in exponential growth in communication reach.
- Identified research trends and patterns, contributing valuable insights to 10 academic projects, enhancing the quality of research.

PUBLICATIONS

Jun, S.-R., Boerma, M., Udaondo, Z., **Richardson, S.**, Thrall, K. D., Miousse, I. R., Seng, J., Pathak, R., & Hauer-Jensen, M. (2021). Plasma Metabolomics in a Nonhuman Primate Model of Abdominal Radiation Exposure. *Metabolites*, 11(8), 540.

<https://doi.org/10.3390/metabo11080540>

Saad-Falcon, J., Shaikh, O., Wang, Z.J., Wright, A.P., **Richardson, S.**, & Chau, D. (2020).

PeopleMap: Visualization Tool for Mapping Out Researchers using Natural Language Processing.

ArXiv, abs/2006.06105. <https://arxiv.org/abs/2006.06105>

CONFERENCE PRESENTATIONS

Irish-Bramble, K., **Richardson, S.**, & Webster, M. "Examining the Impact of Nativity Status and Other Socio-economic Factors on Voter Participation in the 2020 and 2022 US Election Cycle".

- *Oral Presentation*, Social Integration of New Americans in New York State: 2025 Conference. (Jun. 2025)
- *Oral Presentation*, Medgar Evers College Research Day, Brooklyn, NY. (May 2025)
- *Oral Presentation*, 79th Annual Conference of the New York State Political Science Association, Poughkeepsie, NY. (Apr. 2025)

Richardson, S. (2019). "Plasma metabolomics in a nonhuman primate model of abdominal radiation exposure"

- *Poster Presentation*, 2019 Annual Biomedical Conference for Minority Students (ABRCMS) Research Symposium, Anaheim, CA. (Nov. 2019)

AWARDS & ACCOMPLISHMENTS

Computer Science Student of the Year (2019 – 2020)

Apr. 2020

Department of Mathematics and Computer Science, Fayetteville State University

Outstanding Presentation Awardee

Nov. 2019

2019 Annual Biomedical Conference for Minority Students (ABRCMS)

VOLUNTEERING & EXTRA-CURRICULARS

Zicklin Women in Business Club (ZWiB)

Sep. 2022 - June 2024

Web Development Committee Member

- Maintain and update ZWiB's website.
- Provide tech support during live events.

Technical Skills

Languages & Tools: Python, R, SQL, dbt, Tableau, Power BI, RShiny, Git, JIRA

Data Engineering: MySQL, Redshift, Apache Airflow, ETL/ELT, AWS

Analytics: Statistical Modeling, Predictive Analytics, Dashboard Design, A/B Testing

Soft Skills: Communication, Problem-Solving, Collaboration, Attention to Detail