

John Brown

Data professional with experience in statistical analysis using R and Python. Proficient in data manipulation using SQL, scientific presentations, data governance, and problem-solving.

EDUCATION

Master of Science in Analytics Institute for Advanced Analytics, NC State University, Raleigh, NC	May 2024
Bachelor of Science in Biology, Minor in Chemistry University of North Carolina at Chapel Hill, Chapel Hill, NC	August 2020

WORK EXPERIENCE

United States Department of Veterans Affairs Statistician (medicine)	Durham, NC October 2024—Present
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Construct patient cohorts and provide statistical support for research projects using **R** and **SQL**. Manage **large healthcare datasets**, ensure **data integrity**, and develop **statistical analysis plans**. Provide technical guidance on database structure, project feasibility, and research protocols to VA researchers and physicians.

- Develop analysis plans with study teams for projects evaluating PTSD evidence-based psychotherapies, using **SQL** to build large-scale retrospective datasets of millions of Veterans.
- Collaborate with statisticians and study teams to set up clinical trials in **REDCap**, proactively preparing for recruitment of Veteran care-partner dyads.
- Support study startup activities by contributing to ethics review submissions and identifying key data sources for a national diabetes study.

University of North Carolina at Chapel Hill School of Medicine Research Technician - Journey	Chapel Hill, NC August 2020—January 2023
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Designed and executed experiments and communicated results. Collaborated with lab members and UNC faculty members, kept meticulous documentation, stayed informed about relevant research, created presentations and posters, wrote manuscripts, and conducted statistical analyses.

- Designed bioinformatics experiments and processed **high-dimensional RNA-seq data** using UNC's **Linux-based computing cluster**.
- Performed statistical analysis using **generalized linear models** in **R**, on **800 million+ data points**.
- Authored 3 publications and delivered 5 scientific conference presentations.

Colorado State University Research Fellow	Fort Collins, CO June 2019—August 2019
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National Science Foundation (NSF) sponsored research internship. Conducted research on the regulatory role of long noncoding RNAs in pluripotency (stem cells).

- Wrote a detailed research report and created a scientific poster to present at a CSU conference.
- Won the People's Choice award for the best poster.
- Employed cell culture, protein analysis, and molecular cloning to investigate research questions.
- Validated discoveries using two-sample t-tests.

MASTER'S PRACTICUM PROJECT

United States Department of Education Technical Lead	Washington, D.C. August 2023—May 2024
<ul style="list-style-type: none">• Implemented KNN techniques to construct social networks based on FAFSA data• Delivered well-documented Python code, used to create network data for 45 million+ students.• Estimated the effect of one's social network on 5 long-term student outcomes using logistic regression, extreme gradient boosting, and neural networks.	

PUBLICATIONS

- **John C. Brown**, Benjamin D. McMichael, Vasudha Vandadi, et al., *Lysine-36 of Drosophila histone H3.3 supports adult longevity*, G3 Genes|Genomes|Genetics, ([2024](#)).
- Harmony R. Salzler, Vasudha Vandadi, Benjamin D. McMichael, **John C. Brown**, et al., *Distinct roles for canonical and variant histone H3 lysine-36 in Polycomb silencing*, Science Advances, ([2023](#)).
- Casey A. Schmidt, Lucy Y. Min, Michelle H. McVay, Joseph D. Giusto, **John C. Brown**, Harmony R. Salzler, A. Gregory Matera. *Mutations in Drosophila tRNA processing factors cause phenotypes similar to Pontocerebellar Hypoplasia*, Biology Open ([2022](#)).