

Steven Lawrence

Biostatistician / Data Scientist

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SUMMARY

Biostatistician and PhD candidate with 7+ years of experience delivering statistical strategy for clinical research and applied analytics. Expertise in Bayesian/spatial modeling, longitudinal and time-to-event analysis, and geospatial analytics; translate complex data into decision-ready results for clinicians, executives, and program stakeholders. CRAN author/maintainer of *tidyRHRV*.

EXPERIENCE

Graduate Research Assistant (Doctoral Training) 2021–Present

New York University Vilcek School of Biomedical Sciences

- Built Bayesian hierarchical models and evaluated spatial model variants to quantify access to services in NYC.
- Designed HIPAA-compliant GIS pipelines on HPC using Singularity and terminal-based workflows.
- Delivered patient-preferred pharmacy proximity metrics used to quantify barriers to care.

Biostatistician / Data Scientist (Consulting & Collaborative Research) 2020–2026

Icahn School of Medicine at Mount Sinai

- Supervised master's-level statisticians performing quality improvement analyses and automated on-demand quality-metrics reporting (2023–2026).
- Drove autonomic Heart Rate Variability (HRV) analyses and patient phenotyping supporting first-/second-author publications and maintained the *tidyRHRV* package on CRAN (2021–2025).
- Built web-scraping and integrated PubMed API tooling for bibliometric quantification to inform leadership on program performance (2023–2024).
- Estimated telehealth utilization shifts pre/during/post shutdown and briefed stakeholders (2021–2022).
- Produced geospatial maps and analyzed testing vs positivity during COVID Wave 1 to inform leadership on constrained testing allocation decisions (2020).

Data Science Consultant

2023–2025

Graham Windham

- Developed leadership dashboards and predictive models to evaluate foster care mental health interventions and communicate results to executives.
- Built a secure GIS pipeline for geospatial analytics and reproducible processing to quantify access to high-quality education.

Additional experience: Memorial Sloan Kettering (Project Manager, Bridge to Biostatistics; Summer 2025) • Hampton University (R Workshop Instructor; Summer 2024) • UAB (Biostatistical Consultation — NIS survey-weighted analyses; Fall 2021) • Nationwide Financial Services (Data Science Intern — ML fairness evaluation; Summer 2021)

EDUCATION

PhD, Biostatistics	Exp May 2026
New York University	
MS, Biostatistics	May 2021
Columbia University	
BS, Biology (Math Minor)	Jun 2019
CUNY Medgar Evers	

SKILLS

Methods: Bayesian/spatial modeling; national survey analysis; predictive modeling.

Relevant coursework: Clinical Trials; Longitudinal Data Analysis; Survival Analysis; Causal Inference; Machine Learning.

Tools: R/RStudio SAS Stan SQL
Power BI GIS Git

PUBLICATIONS

- **Lawrence S**, Robinson-Papp J, Kwon P. High-throughput cleaning of raw ECG data. *J Neurol Sci*. 2021.
- **Lawrence S**, Mueller BR, Kwon P, Robinson-Papp J. Phenotyping autonomic neuropathy using principal component analysis. *Auton Neurosci*. 2023.
- Mueller BR, **Lawrence S**, Benn E, et al. Disparities in telehealth utilization in patients with pain during COVID-19. *Pain Reports*. 2022.
- Adhikari S, Stokes T, Li X, Zhao Y, **Lawrence S**, et al. ML prediction of medication adherence in heart failure. *JAMIA*. 2025.