

Steven Lawrence

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Executive Profile

Senior biostatistician and PhD candidate with 7+ years of experience leading statistical strategy for clinical, observational, and program evaluation studies across academic medical centers and industry/community partners. Expertise in Bayesian hierarchical modeling, longitudinal and time-to-event analysis, and geospatial analytics, with a record of translating complex data into decisions for clinicians, executives, and external stakeholders.

Statistical & Quantitative Expertise

- Led design and analysis of longitudinal, time-to-event, and quasi-experimental studies supporting clinical research, quality improvement, and equity initiatives.
- Developed Bayesian hierarchical and spatial models to quantify uncertainty, small-area variation, and structural disparities in healthcare access and outcomes.
- Built scalable, reproducible R workflows for large administrative and clinical datasets, enabling rapid iteration and audit-ready analytics.
- Applied predictive and classification methods (penalized regression, tree-based models, discriminant analysis) for risk stratification and phenotyping.
- Designed geospatial proximity and access metrics to support policy-relevant analyses and executive-level decision making.
- Authored and maintained a CRAN-published R package (*tidyRHRV*) to standardize and accelerate high-throughput HRV data curation and measurement (PAIRED Lab, Mount Sinai).

Leadership, Strategy & Communication

- Owned statistical strategy and analytic execution across concurrent projects, managing scope, timelines, and stakeholder expectations.
- Advised clinicians, investigators, and program leadership on study design, inference, and interpretation for high-visibility initiatives.
- Mentored analysts, fellows, and students in applied biostatistics, reproducible research, and professional communication.
- Delivered executive-level summaries translating complex statistical findings into actionable recommendations.
- Developed dashboards and reporting tools (Power BI) to support operational planning and equity-focused decision making.
- Invited speaker and panelist at ENAR Fostering Diversity Workshop, Statfest, Field of Dreams, and Bridge to Biostats; long-standing mentor in pipeline programs.

Professional Experience (Selected)

Mount Sinai: Center for Scientific Diversity (CSD), PAIRED Lab, Quality Improvement consulting, music therapy collaboration •**Other:** Memorial Sloan Kettering, Nationwide, Graham Windham, consulting

Education

Doctor of Philosophy (PhD) in Biostatistics New York University Vilcek School of Biomedical Sciences (expected May 2026)

Master of Science (MS) in Biostatistics Columbia University Mailman School of Public Health, May 2021

Bachelor of Science (BS) in Biology, Mathematics Minor CUNY Medgar Evers College, June 2019

Selected Publications

Peer-reviewed publications in clinical and statistical journals.

1. Robinson-Papp J., Lawrence S., et al. *Priorities for HIV and chronic pain research.* AIDS Care. 2024.
2. Benn E. K. T., Lawrence S., et al. *ENAR Fostering Diversity in Biostatistics Workshop.* J. Stat. Educ. 2020.
3. Mukhopadhyay A., Lawrence S., et al. *Neighborhood SES and prescription fill patterns in heart failure.* JAMA Netw Open. 2023.
4. Lawrence S., Mueller B. R., et al. *Phenotyping autonomic neuropathy using principal component analysis.* Auton Neurosci. 2022.

Full publication list available on Google Scholar.