Lisa Levoir

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Minneapolis / St. Paul, MN

- Former lab manager with 5 years of experience in clinical trials and bench research at Fred Hutchinson Cancer Center.
- Expanded on statistical collaboration skills with a MS in Biostatistics, completed in 2025.
- Over 9 years cumulative experience in applied clinical trials and biomedical research, combining expertise in biomedical science, data analytics, and effective communication.

Education

MS Biostatistics *Vanderbilt University, Nashville, TN* 2025
Thesis: Evaluating Machine Learning Approaches for Assessing Heterogeneity of Treatment Effect in Clinical Trials *Available:* https://lisalevoir.github.io/projects

BA Biology *Macalester College, St. Paul, MN* 2017
Minor: Geography; *Concentration*: Community & Global Health
Studied Community Public Health at Khon Kaen University in Thailand 2016

Work Experience

Lab Manager
Fred Hutchinson Cancer Center - Vaccine and Infectious Disease Division, Seattle, WA 10/2019 – 4/2022

- First employee in a startup lab; responsible for organization, inventory management, logistical coordination, onboarding & training (6) rotation and undergraduate students.
- Wrote an invited commentary and contributed to additional (4) publications.
- Established the infrastructure for single B cell transcriptomics for antibody discovery and optimized pipeline from >25,000 to 200 candidates for high-throughput antibody production and characterization.

Research Technician (Endpoints), HIV Vaccine Trials Network (HVTN)
Fred Hutchinson Cancer Center - Vaccine and Infectious Disease Division, Seattle, WA 6/2017 – 10/2019

- Independently analyzed and interpreted data; composed study plans and final study reports to share findings for HIV, malaria, and Ebola vaccine clinical trials.
- Performed assay development for the detection of antigen-specific T cell responses: procedure and study plan development, literature consultation, and analysis.
- Consistently performed to high standards in a GCLP regulated high-throughput team environment.

Research Experience

Graduate Research Assistant
Vanderbilt University Medical Center, Department of Biostatistics, Nashville, TN 8/2024 – 5/2025
Remote from Minneapolis, MN

- Analyzed geospatial data for federal regulatory reports to guide implementation and outcomes monitoring for child welfare programs.
- Leveraged interactive data visualizations to communicate statistical ideas to a variety of stakeholders including non-statisticians and senior leadership.
- Implemented automatic workflows for interpretable data analysis in R.

CLOVERS Project Analyst
Vanderbilt University Medical Center, Department of Biostatistics, Nashville, TN 4/2023 – 10/2024

- Prepared and analyzed patient-level clinical trial data for statistical modeling and survival analysis, resulting in a publication.
- Collaborated with investigators at Massachusetts General Hospital, Beth Israel Deaconess Medical Center, and Harvard Medical School.

Student Fellow, Minnesota Department of Health *Virology Lab, St. Paul, MN* 6/2016 – 6/2017

Mayo Summer Undergraduate Research Fellow *Mayo Graduate School, Rochester, MN* 6/2015 – 8/2015

Skills

General: Effective Oral and Written Communication, Cross-Functional Collaboration, Stakeholder Engagement, Planning, Execution and Management of Large Projects, Writing SOPs

Technical: R (advanced), GitHub & version control (intermediate) LaTeX (intermediate), GIS and geocoding (advanced)

Statistical: Study Design and Analysis, Data Management & Organization, Writing and Executing Statistical Analysis Plans, Statistical Modeling, Data Visualization, Linear and Logistic Regression, Handling Missing Data and Multiple Imputation, Multivariable Regression Modeling

Honors, Service, and Awards

Commodore Award in Biostatistics, Vanderbilt University 2024
Awarded to one student per year for enriching the department and/or graduate program through ingenuity, dedication, and altruism.

Student Travel Award, ASA Women in Statistics and Data Science Conference 2024
Vice President, Biostatistics Graduate Student Association (BGSA) 2024 – 2025
Educational Outreach Committee Co-Chair, Hutch United 2019 – 2022
Taylor Public Health Fellowship, Macalester College Biology Department 2016
Wallin Scholar, Wallin Education Partners 2013 – 2017

Publications

- Oshima, K, Gravio, C.D., Yan, B., McMurty, S. A., Burke, R., **Levoir, L.M.**, ...Shapiro, N.I. 2025. Endothelial Glycocalyx Degradation in Sepsis: Analysis of the Crystalloid Liberal Or Vasopressors Early Resuscitation in Sepsis (CLOVERS) Trial, a Multicenter, Phase 3, Randomized Trial *Annals of the American Thoracic Society.*
- Belmont, L., Contreras, M., Cartwright-Acar, C.H., Marceau, C.D., Agrawal, A., **Levoir, L.M.**, Lubow, J. and Goo, L., 2024. Functional genomics screens reveal a role for TBC1D24 and SV2B in antibody-dependent enhancement of dengue virus infection. *Journal of Virology.*
- Contreras, M., Stuart, J.B., **Levoir, L.M.**, Belmont, L. and Goo, L., 2024. Defining the impact of flavivirus envelope protein glycosylation site mutations on sensitivity to broadly neutralizing antibodies. *mBio*
- Lubow, J., **Levoir, L.M.**, Ralph, D.K., Belmont, L., Contreras, M., Cartwright-Acar, C.H., Kikawa, C., Kannan, S., Davidson, E., Duran, V. and Rebellon-Sanchez, D.E., 2023. Single B cell transcriptomics identifies multiple isotypes of broadly neutralizing antibodies against flaviviruses. *PLOS Pathogens*
- Kikawa, C., Cartwright-Acar, C.H., Stuart, J.B., Contreras, M., **Levoir, L.M.**, Evans, M.J., Bloom, J.D. and Goo, L., 2023. The effect of single mutations in Zika virus envelope on escape from broadly neutralizing antibodies. *Journal of Virology*
- **Levoir, L.** and Goo, L., 2020. A (class-) switch in the antibody response may distinguish primary from secondary dengue virus infection. *EBioMedicine*