

RESEARCH AND WORK EXPERIENCE

Graduate Research Assistant

Vanderbilt University Medical Center, Department of Biostatistics, Nashville, TN

August 2024 – present

Work conducted remotely from Minneapolis, MN

Mentor: Rameela Raman, PhD

- Conduct data and geospatial analyses of juvenile care reporting and social determinants of outcomes for stakeholders in the TN Department for Children's Services and the Vanderbilt Center of Excellence for Children in State Custody.
- Communicate technical statistical ideas to non-statisticians; understand and respond to client needs.

CLOVERS Project Analyst

Vanderbilt University Medical Center, Department of Biostatistics, Nashville, TN

2023 – 2024

Mentor: Jonathan Schildcrout, PhD

- Analyzed retrospective trial data nested within a two-phase enrichment study design from the CLOVERS clinical trial which enrolled patients with sepsis to compare fluid resuscitation strategies. This secondary analysis pertained to biomarkers of endothelial glycocalyx degradation and resulted in a publication.
- Collaborated with investigators at Massachusetts General Hospital, Beth Israel Deaconess Medical Center, and Harvard Medical School.

Lab Manager / Research Technician II

Fred Hutchinson Cancer Center - Vaccine and Infectious Disease Division, Seattle, WA

2019 – 2022

PI: Leslie Goo, MPH, PhD

- Onboarded and trained rotation students (5) and undergraduate student (1); contributed to their research projects.
- Established the infrastructure for single B cell transcriptomics for antibody discovery in collaboration with postdoc and optimized pipeline for high-throughput antibody (IgG) production, purification, and characterization following selection via a Bayesian phylogenetic Markov Model.

Research Technician, HIV Vaccine Trials Network (HVTN)

Fred Hutchinson Cancer Center - Vaccine and Infectious Disease Division, Seattle, WA

2017 – 2019

PI: Julie McElrath, MD, PhD

- Independently analyzed and interpreted data; composed study plans and final study reports to share findings for HIV, malaria, and Ebola vaccine clinical trials.
- Consistently performed to high standards in a GCLP regulated high-throughput team environment.

Student Fellow/Worker, Minnesota Department of Health

Public Health Labs - Virology Unit, St. Paul, MN

Mentor: Anna Strain, PhD

Student Worker Paraprofessional Senior & Taylor Public Health Fellow

2016 – 2017

- Optimized a PCR for the detection of enterovirus in clinical samples for the Severe Acute Respiratory Illness initiative and presented this project to lab staff. Also validated new reagents for the detection of arbovirus infection in serum samples.

EDUCATION

MS Biostatistics

Vanderbilt University, Nashville, TN

Graduation May 2025

Advisor: Bryan Blette, PhD

Thesis: Evaluation of Machine Learning Approaches for Assessing Heterogeneity of Treatment Effect in Clinical Trials

BA Biology

2017

Minor: Geography; Concentration: Community & Global Health

Macalester College, St. Paul, MN

Studied Community Public Health at Khon Kaen University in Thailand

2016

RELEVANT SKILLS

Programming and Technical

R (advanced), GIS and geocoding (advanced), GitHub (intermediate), LaTeX (intermediate), Stata (intermediate)

Other

Stakeholder Engagement, Statistical Modeling, Data Visualization, Collaboration, Student/Career Mentorship

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 – present

Board Member & Outreach Chair, BGSA

2023 – 2024

Russell G. Hamilton Scholar, Vanderbilt University

2022

One of two recipients of the University Graduate Fellowship, an additional funding award of \$2,500/ year.

Educational Outreach Committee Co-Chair, Hutch United

2019 – 2022

Coordinated scientific education and outreach activities for local high school and community college students.

Collaborated among institutional stakeholders to host events including career seminars and networking lunches.

Taylor Public Health Fellowship, Macalester College Biology Department

2016

One of five students to receive this competitive grant which supported summer research in public health (completed at Minnesota Department of Health). \$2600 for term.

Wallace Distinguished Scholarship, Macalester College

2013-2017

Merit award for high-achieving students. \$15,000/ year for 4 years.

Wallin Scholar, Wallin Education Partners

2013-2017

Financial award and individual advising program for first generation and/or diverse college students from the Minneapolis/St. Paul metro area. \$4,000/ year for 4 years