

# SARAH FORREST

New York, NY · (541) 270-7720 · sarah.forrest@columbia.edu · linkedin.com/in/sarahforrestmph/ · github.com/sarah-forrest

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## EDUCATION

**Columbia University, Mailman School of Public Health**, New York, NY May 2023

**Master of Public Health** in *Epidemiology, Certificate in Applied Biostatistics and Public Health Data Science* | GPA: 3.91 (A)

- Relevant Coursework: Epidemiology I-III, Regression Analysis I-II, Data Science I-II, Analysis of Categorical Data, SAS, SQL, GIS
- Thesis: *Geographical Surveillance of COVID-19 clusters in New York City: A Comparison Between Space-Time Scan Statistics in SaTScan and Emerging Hotspot Analysis in ArcGIS*

**University of Washington, School of Public Health**, Seattle, WA June 2019

**Bachelor of Arts** in *Public Health-Global Health, Minor in Nutritional Sciences* | GPA: 3.62 (A-)

## EXPERIENCE

**Columbia University, Department of Epidemiology, Statistician**, New York, NY Jul 2023 – Present

**SOMOS Innovation, Senior Business Intelligence Analyst**, New York, NY Jan 2023 – May 2023

- Designed and implemented market intelligence efforts using Excel and R to report on healthcare market trends and compare against SOMOS' performance, utilizing data on plan enrollments, premiums, expenses, costs, and utilization rates.
- Established reporting on benchmark performance comparisons for emerging dual-eligible government programs such as MAP and PACE, integrating Medicaid and Medicare benefits for complex populations.

**Columbia University, Department of Biostatistics, Graduate Teaching Assistant**, New York, NY Sep 2022 – May 2023

- Improve student learning outcomes and statistical analysis skills for *Statistical Computing with SAS & Applied Regression* courses by facilitating discussion and providing effective feedback to 100+ students from non-technical backgrounds.
- Create video tutorials introducing students to SAS and teach fundamentals of statistical programming.

**Columbia University, Geospatial and Applied Prevention Science Lab, Research Assistant**, New York, NY Feb 2022 – Aug 2022

- Investigated associations between urban design, child mobility, and crash risks in California cities, to support an NIH grant proposal informing how best to configure transportation networks to reduce crash incidence and minimize health inequities.
- Created statistical models to predict mobility using mixed linear regression and multinomial logistic regression in SAS and R.
- Extracted and cleaned mobility data for 3,000+ children in over 250 cities from publicly available data sources using SAS.
- Created graduated color maps of urban design measures using ArcGIS and R to confirm accuracy of variable calculations.
- Created compelling data visualization, summary tables, and model result reports in R for publication and presentation.
- Conducted a comprehensive review of available literature on spatial epidemiology and children's mobility research.

**Seattle Epidemiologic Research & Information Center, Human Subjects Research Assistant**, Seattle, WA Oct 2020 – Aug 2021

- Created and coded queries from a complex data set of 14,000+ individuals and 30+ different studies (surveys, medical records, biospecimen data) over 30 years; accurately recorded data and created reports in MS Access and Excel and presented weekly updates to Team to improve veterans' health using epidemiologic research.
- Developed three study procedures, recruitment scripts, and trained new staff to ensure consistency and reliability.
- Successfully recruited and followed up with 500+ research participants through phone and written correspondence.
- Accurately prepared documentation for Institutional Review Board (IRB) submissions.
- Collaborated with senior subject matter experts and researchers in three locations across the United States.

**University of Washington Honors Program, Bonderman Fellow**, South America & Southeast Asia Sep 2019 – Mar 2020

- Selected as one of 9 undergraduate students out of a graduating class of 8,000+ for the highly competitive fellowship.
- Independently traveled for 6 continuous months in South America and Southeast Asia to investigate systems of public health and explore multicultural approaches to wellness and modes of healing across 7 different countries.

**University of Washington Food Pantry, Fresh Food and Sustainability Intern**, Seattle, WA Jan 2019 – Aug 2019

- Spearheaded the development of sustainable food recovery strategies to supply the Pantry with fresh meals and produce.
- Established working relationships and maintained frequent communication with community partners to facilitate donations.
- Established a 5-person team to recover food from scratch by recruiting, training, and leading student volunteers.

## SKILLS

**Computer:** Strong knowledge of MS Office (Word, Excel, Access, PowerPoint), SAS, R, SQL, ArcGIS/QGIS, SaTScan, GeoDa, REDCap

**Certifications:** CITI (human subjects research), HIPAA (patient privacy), VA Human Subjects Protection training and certification

**Language:** Intermediate Spanish, extensive travel in 12 countries in Central America, South America, and Southeast Asia