

# Melvin Coleman

Epidemiology, Certificate in Applied Biostatistics & Public Health Data Science · Columbia University  
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## Technical Skills

R, SAS, ArcGIS, Data Science Pipeline (cleansing, wrangling, visualization, modeling, visualization, dashboards, shiny apps), Statistics, Excel, Git/GitHub

## Projects

### Columbia University Mailman School of Public Health

Jun 2022 - present

- Design cross-sectional study from the Tanzania HIV Impact Survey (THIS) 2016-17 and conduct multivariable logistic regression analysis to assess the association between adult male circumcision and Hepatitis B & C in Tanzania

### ICAP at Columbia University

Jun 2022 - Aug 2022

- Performed analyses in SAS & Excel to inform Tanzania HIV Impact Survey 2022-23 lab deployment plan highlighting the number of participants per day for 3 satellite labs in remote areas of Tanzania and provided report with bar graph visualization

### University of Minnesota

Jun 2018 - Aug 2018

- Utilized the American Heart Association's (AHA) Life Simple 7's Metric to assess the cardiovascular health of food shelf clients from survey data in Minnesota to determine proactive response to client's health needs; provided results with graph visualizations and poster presentation at the Summer 2018 University of Minnesota's Research Symposium

## Professional Experience

### ICAP at Columbia University, New York, NY & Dar Es Salaam, Tanzania

Jun 2022 – present

*Data Assistant (Aug 2022 – present)*

- Conduct data and exploratory analyses using SAS to support the Population Based HIV Impact Assessment (PHIA) Project survey in Tanzania sampling more than 10,000 households and individuals aged 15+ years and older
- Test study instruments on tablets and review for consistency, develop standard operating procedures, prepare reports and presentations, in collaboration with in-country partners and other stakeholders to ensure accurate data collection

*Intern, Tanzania HIV Impact Survey (Jun 2022 – Aug 2022)*

- Configured survey instruments (300 Samsung tablets & 16 laboratory laptops) with interview questionnaire in Census and Survey Processing System (CSPro), maps in Population Health Impact Assessment (PHIA) maps and lab inventory in Laboratory Database Management System (LDMS)
- Supported household listing data collection training through 1-1 mentoring during hands-on portion administering ICT and technical tablet support, distributing training materials and assistance to about 150 trainees

### Minnesota Department of Health, Minneapolis, MN

Jun 2020 – May 2022

*Covid-19 Deduplication Lead (Jul 2021– May 2022)*

- Monitored deduplication workflows, update deduplication schedule and documentation to ensure quality assurance and accurate data entry
- Supervised a team of 7 individuals, provided training and documentation for new hires on Covid-19 deduplications in the Minnesota Electronic Disease Surveillance Database

*Public Health Specialist (Oct 2020 – Jul 2021)*

- Assisted epidemiologists with outbreak-related investigations in various settings, including schools, childcare facilities, youth and sports camps, prisons, jails, shelters, group homes and workplaces
- Managed, collected, and accurately entered data into the Minnesota Electronic Disease Surveillance System database for analysis and ensured protocol for CDC submission

*Specialized Covid-19 Case Investigator & Contact Tracer (Jun – Oct 2020)*

- Used web-based client resource management (CRM) platform to contact individuals who have positive COVID-19 test result to provide them information, answer questions and discuss implications of positive diagnoses
- Collaborated with a team of over 100 case investigators and state and local public health staff to identify and contact individuals who encountered high risk or infected Covid-19 individuals

## Education

### Columbia University Mailman School of Public Health, New York, NY

May 2023

Master of Public Health in Epidemiology, Certificate in Applied Biostatistics & Public Health Data Science

### University of Minnesota Twin Cities, College of Liberal Arts, Minneapolis, MN

Aug 2020

Bachelor of Arts in Biology, Society, and Environment, Minor in Public Health

Activities: Phi Beta Sigma Fraternity Inc., National Pan-Hellenic Council Minnesota, Tom Burnett Leadership Program

