

JACOB MUGOYA GIZAMBA

Los Angeles, CA • gizamba@usc.edu

ORCID ID: <https://orcid.org/0000-0003-0327-988X>

EDUCATION

University of Southern California <i>PhD in Population Health and Place</i>	Los Angeles, CA Expected May 2027
University of Cape Town <i>Master of Public Health, Epidemiology and Biostatistics Specialty</i>	Cape Town, South Africa July 2022
Makerere University <i>Bachelor of Science, Wildlife Health, and Management</i>	Kampala, Uganda January 2019

EXPERIENCE

University of Southern California <i>Teaching Assistant – Spatial Science Institute</i> Worked as a teaching assistant at the Spatial Science Institute <ul style="list-style-type: none">• Instructed lab sessions• Instructed Discussion sessions• Engaged in grading assignments.	Los Angeles, CA, USA August 2023 to present.
Los Angeles County Department of Public Health (LACDPH) USA <i>Volunteer – Acute Communicable Disease Control (ACDC) Program, Viral Hepatitis Unit</i> Worked as a case manager on the hepatitis C connect project at the USC Department of Population and Public Health in collaboration with LACDPH. <ul style="list-style-type: none">• Contacted and collected data from Hepatitis C cases reported to LADPH.• Analyzed the spatial distribution and socioeconomic determinants of hepatitis C infection.	Los Angeles, CA, July 2023 to present.
University of Cape Town <i>Project Coordinator – Department of Public Health and Family Medicine</i> Worked as a coordinator of the AXA Research chair for a non-communicable disease Epidemiology project hosted at the division of Epidemiology and Biostatistics. <ul style="list-style-type: none">• Developed study protocols and designed data collection tools.• Led and managed the project database• Wrote reports and manuscripts for publication.• Developed regulatory guidelines and documents.	Cape Town, South Africa January 2022 to August 2022
University of Cape Town <i>Teaching Assistant – Department of Public Health and Family Medicine</i> Worked as a teaching assistant in the biostatistics course. <ul style="list-style-type: none">• Facilitated data analysis tutorials using R software.• Graded semester assessments.• Offered technical assistance regarding all course content.	Cape Town, South Africa February 2022 to June 2022
University of Cape Town <i>Research Assistant – Department of Public Health and Family Medicine</i>	Cape Town, South Africa September 2021 to December 2021

Worked as a research assistant on a project about “Chronic disease monitoring in low- and middle-income countries.”

- Conducted systematic reviews and data abstraction from reports.
- Compiled data on the cost of diabetes-related events in tertiary hospitals.
- Conducted Data analysis involving mapping diabetes distribution in Africa and South Africa.

Western Cape Department of Health

Cape Town, South Africa

COVID-19 case manager – Outbreak Response Team
2021

March 2021 to September

Worked as a case and contact tracer during the peak periods of the COVID-19 pandemic.

- Conducted data collection from COVID-19 cases and their contacts.
- Conducted entry of case and contact data into electronic baseline forms.
- Engaged in risk communication to the general population.

Makerere University

Kampala, Uganda

Research Assistant – College of Veterinary Medicine

September 2019 to January 2020

Worked as a research assistant on a project about antimicrobial use and resistance among people and livestock.

- Developed study protocols and data collection tools.
- Engaged in data collection about antimicrobial use in tertiary hospitals within the county.
- Conducted data analysis involving mapping drug outlets in both rural and urban settings.

PUBLICATIONS

Link to publication list: <https://www.researchgate.net/profile/Jacob-Gizamba/research>

Gizamba JM, Finch BK, Wang S, Klausner JD. Insights into the spatial epidemiology of hepatitis C infection: systematic synthesis of area-level determinants and spatiotemporal analyses. *BMC Public Health*. 2025 Feb 19;25(1):687. doi: 10.1186/s12889-025-21668-w. PMID: 39972312; PMCID: PMC11841175.

Gizamba JM, Davies J, Africa C, Choo-Kang C, Goedecke JH, Madlala H, Lambert EV, Rae DE, Myer L, Luke A, Dugas LR. Prevalence of obesity, hypertension, and diabetes among people living with HIV in South Africa: a systematic review and meta-analysis. *BMC Infect Dis*. 2023 Dec 7;23(1):861. doi: 10.1186/s12879-023-08736-5. PMID: 38062372; PMCID: PMC10704741.

Gizamba JM, Wilson JP, Mendenhall E, Ferguson L. A review of place-related contextual factors in syndemics research. *Health Place*. 2023 Jul 10;83:103084. doi: 10.1016/j.healthplace.2023.103084. Epub ahead of print. PMID: 37437495.

Gizamba JM, Paul L, Dlamini SK, Odayar J. Incidence and distribution of human leptospirosis in the Western Cape Province, South Africa (2010-2019): a retrospective study. *Pan Afr Med J*. 2023 Mar 9;44:121. doi: 10.11604/pamj.2023.44.121.34244. PMID: 37275293; PMCID: PMC10237220.

Gizamba, JM., & Mugisha, L. (2023). Leptospirosis in humans and selected animals in Sub-Saharan Africa, 2014-2022: a systematic review and meta-analysis. *BMC infectious diseases*, 23(1), 649.

Gizamba J, Davies J, Africa C et al. Women’s access to health care for non-communicable diseases in South Africa: A scoping review. [version 1; peer review: awaiting peer review]. *F1000Research* 2022, 11:990 (<https://doi.org/10.12688/f1000research.123598.1>).

Sente C, Onyuth H, Matovu G, Namara BG, Mugoya GJ. Provision of Travel Health Advice Through Local Tourist Handlers: Perspectives of Safari Tour Operators in Uganda. *Travel Med Infect Dis*. 2022 Sep-Oct;49:102407. doi: 10.1016/j.tmaid.2022.102407. Epub 2022 Aug 10. PMID: 35961490.

Seroprevalence and risk factors of toxoplasmosis in Uganda 2018. (*unpublished*)

Mapping of Stillbirths data in Africa 2022. Consultation with the Division of Global Surgery, University of Cape Town, and UNICEF. (*Unpublished*)

CONFERENCE PRESENTATION

- Effect of HIV and Antiretroviral Therapy on Resting Metabolic Rate among Postpartum women: The Obesity Week 2022, San Diego, California.
- HIV-HCV syndemic in California: Spatial epidemiological approach: American Public Health Conference (APHA) 2023 Annual Meeting and Expo -Atlanta, Georgia.
- Insights into the spatial epidemiology of Hepatitis C infection: Systematic synthesis of Area-Level Determinants and Spatiotemporal Analyses: Society of Epidemiological Research (SER) mid-year virtual conference 2024
- Examining the spatial risk environment of bloodborne infections - HCV and HIV; Identifying high-risk areas to the syndemic of HCV and HIV: Combined spatial and Machine Learning approaches: Social determinants of health (SDOH) & Place symposium 2024, Chicago, Illinois.
- Identifying High-Risk areas for Untimely Administration of Hepatitis B Birth Dose (HepB-BD) in Low-Middle Income Settings: A Spatial Epidemiological approach: World congress of epidemiology (WCE), September 24-27th 2024, Cape Town South Africa.
- Insights into the spatial epidemiology of Hepatitis C infection: Systematic synthesis of Area-Level Determinants and Spatiotemporal Analyses: World congress of epidemiology (WCE), September 24-27th 2024, Cape Town South Africa.
- Suboptimal Geographic Access to Hepatitis C Treatment Specialists: Urban-Rural Disparities Across Census Tracts in California: Global Hepatitis Summit (GHS) 2025, March 18th-21st 2025, Los Angeles, California, USA

TEACHING EXPERIENCE

Teaching Assistant positions:

- **Natural hazards and human populations (SSCI-214)**; Spatial Science Institute, University of Southern California (USC), - January-May 2025
- **Food, Health and Place (SSCI-175)**; Spatial Science Institute, University of Southern California (USC), - August-December 2024
- **Natural hazards and human populations (SSCI-214)**; Spatial Science Institute, University of Southern California (USC), - January-May 2024
- **Sustainability science in cities (SSCI-165)**; Spatial Science Institute, University of Southern California (USC), - August-December 2023
- **Introduction to biostatistics**; Division of Epidemiology and Biostatistics, University of Cape Town (USC), -January-May 2022

Guest lectures:

- ❖ *Leveraging Exploratory spatial data analysis (ESDA) in mapping diet-related health outcomes: A case study of the City of Los Angeles.*
 - Invited to guest lecture for the **Food, Health and Place (SSCI-175)**; University of Southern California (USC), - October 10, 2024.
 - Aimed to introduce the concept of ESDA and its relevance in exploring the relationship between neighborhood Food environments and the prevalence of Obesity and type 2 diabetes.

PEER REVIEW EXPERIENCE

- BMC Gastroenterology
- BMC Infectious Diseases
- BMC Public Health
- Scientific Reports
- PLoS ONE
- PLoS Neglected Tropical Diseases journal.
- Transaction in GIS journal
- Frontiers in Global Women's Health journal
- American Public Health Association (APHA) – conference abstract review for APHA-2024, 2025
- Society of Epidemiological Research (SER) – conference abstract review for SER-2024, 2025
- Consortium of Universities on Global Health (CUGH) – conference abstract review for CUGH-2024

MEMBERSHIP

- American Public Health Association (APHA)
- International Epidemiological Association (IEA)
- American Association of Geographers (AAG)
- Society of Epidemiological Research (SER)

SKILLS

- Statistical software: R software, ArcGIS Pro, ArcGIS online
- Geospatial analysis
- Prediction analysis (Machine learning)
- Meta-Analysis
- Study design and database management
- Inferential statistical analysis (marginal models and mixed effects models)
- Working with multicultural/ multi-disciplinary teams