

JACOB MUGOYA GIZAMBA

Los Angeles, CA • gizamba@usc.edu

Website: jacobgizamba.com

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

EDUCATION

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

EXPERIENCE

- University of Southern California** Los Angeles, CA, USA
Assistant Lecturer – Spatial Science Institute January 2026 to Present.
- Instructor of record for SSCI301 Maps and Spatial Reasoning course
Developed teaching materials for the course, including Slide decks and an instructor's guide
- Developed course syllabus, lecture materials, assignments, and exams
 - Conducted weekly lectures
 - Conducted and graded course-related assessments
- University of Southern California** Los Angeles, CA, USA
Research Assistant – Spatial Science Institute May 2025 to December 2025.
- Worked on developing a curriculum for a general education course, “Finding Your Place.”
- Developed teaching materials for the course, including Slide decks and an instructor's guide
 - Developed hands-on/ lab activities for the class
- University of Southern California** Los Angeles, CA, USA
Teaching Assistant – Spatial Science Institute August 2023 to December 2025.
- Worked as a teaching assistant at the Spatial Science Institute
- Instructed lab sessions
 - Instructed Discussion sessions
 - Engaged in grading lab and discussion assessments
- Los Angeles County Department of Public Health (LACDPH)** Los Angeles, CA, USA
Volunteer – Acute Communicable Disease Control (ACDC) Program, Viral Hepatitis Unit July 2023 to present.
- Worked as a case manager on the hepatitis C connect project at the USC Department of Population and Public Health in collaboration with LACDPH.
- Contacted and collected data from Hepatitis C cases reported to LADPH.
 - Analyzed the spatial distribution and socioeconomic determinants of hepatitis C infection.
- Keck Medical School, University of Southern California** Los Angeles, CA, USA
Research Coordinator – Department of Population and Public Health May 2025 to September 2025
- Worked as a project coordinator for a multisite clinical trial on the Efficacy of Linezolid for treating Early Syphilis infection

- Coordinating data collection across study sites
- Coordinating site initialization activities
- Data management

University of Cape Town

Cape Town, South Africa

Project Coordinator – Department of Public Health and Family Medicine

January 2022 to August 2022

Worked as a coordinator of the AXA Research chair for a non-communicable disease Epidemiology project hosted at the division of Epidemiology and Biostatistics.

- 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.

University of Cape Town

Cape Town, South Africa

Teaching Assistant – Department of Public Health and Family Medicine

February 2022 to June 2022

Worked as a teaching assistant in the biostatistics course.

- Facilitated data analysis tutorials using R software.
- Graded semester assessments.
- Offered technical assistance regarding all course content.

University of Cape Town

Cape Town, South Africa

Research Assistant – Department of Public Health and Family Medicine

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

March 2021 to September

2021

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>

Hernandez-Tamayo, Cassidy, Chrysovalantis Stafylis, Lokesh Bhardwaj, Riya K. Shah, Tatiana Becerra, Dara Bruce, Roopkamal Saini et al. "Determinants of hepatitis C virus treatment completion among Los Angeles County residents." BMC Infectious Diseases 25, no. 1 (2025): 1364.

Stafylis C, Hernandez-Tamayo C, Bhardwaj L, Shah R, Becerra T, Bruce D, Saini R, Saremi N, Thomas I, Manansala-Tan K, Vij AP. Project HCV Connect: Using a County Surveillance Registry to Link

- Hepatitis C Virus-Infected Residents to Cure—Los Angeles County, April 2023 to March 2024. *Journal of Public Health Management and Practice*. 2025;10-97.
- 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.
- 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

HepResourceVu Geovisualization: Hepatitis C Service Sites Locator. The SDOH & Place Symposium, UIUC, Chicago, September 23rd-25th, 2025.

Disparities in Spatial Access to Hepatitis C Treatment Providers, Los Angeles County. American Association of Geographers (AAG) Annual Meeting., San Francisco, California, March 17th-21st 2026.

TEACHING EXPERIENCE

Assistant lecturer

- **Maps and Spatial Reasoning (SSCI-301)**; Spatial Science Institute, University of Southern California (USC), - January-May 2026

Teaching Assistant positions:

- **Maps and Spatial Reasoning (SSCI-301)**; Spatial Science Institute, University of Southern California (USC), - August-December 2025
- **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.

AWARDS/ FELLOWSHIPS

- SDOH & Place Fellowship, 2025, hosted by the Healthy Regions & Policies Lab, Department of Geography & GIScience, University of Illinois and Urbana-Champaign
- Graduate Teaching Assistant Award, University of Southern California, for the 2023-2024 Academic Year

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

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

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