

Tendai NR Gwanzura

PHD CANDIDATE

Florida International University

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Highly motivated and accomplished data analyst and early career researcher with experience in academic and government settings seeking to pivot into independent research leveraging experience in government and academic institutions.

Education

Florida International University

PHD IN PUBLIC HEALTH EPIDEMIOLOGY

Miami, United States

2021-

Claremont Graduate University

MASTERS IN PUBLIC HEALTH

Carlinifornia, United States

2020

University of Zimbabwe

BACHELOR OF MEDICAL AND LABORATORY SCIENCE HONORS

Harare, Zimbabwe

2014

Professional Experience

Graduate Assistant

FLORIDA INTERNATIONAL UNIVERSITY

Florida International University

August 2021 - August 2025

- Collaborate with Epidemiology faculty conducting research and writing papers for peer reviewed journals.
 - Create reports related to research being conducted and report to the Supervisor on progress.
 - Support students throughout their programs marking and assiting in creating lesson plans.
 - Collect, clean, enter and analyze data into various software application systems.
 - Manage data using biostatistical software such as SAS, creating weekly data reports.

Data Science Fellow: Women

CORRELATION ONE

DS4A

June 2022 - August 2022

- Selected to participate in a 7-week data science Fellowship (2)
 - Led a group of six women to create a model that predicted variables related to high pesticide levels in individuals 2009-2020 in the US using NHANES data, over the course of the program.
 - Used various regression and predictive models to complete the project utilizing python and R software.

Data Science Fellow: Empowerment

CORRELATION ONE

DS4A

October 2021 - December 2022

- Selected to participate in a 14-week data science Fellowship with a 2
 - Led a group of three to create a machine learning model that accurately(98
 - Created machine learning models to answer various business questions.
 - Recruited students from underrepresented groups into the fellowship program as a DS4A ambassador.

Health Program Analyst

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

California

November 2020 - July 2021

- Collaborated with Outbreak Investigators (Public Health Nurse or Public Health Investigator) with data and epidemiology needs related to investigation of a site outbreak.
 - Led communication with outbreak sites to conduct line list follow-up of cases and contacts, including daily monitoring.
 - Generated data reports related to the outbreak, including, but not limited to, epidemiological curve charts and dashboards.
 - Managed data collection and entry in various software application systems.
 - Conducted data analysis using biostatistical software such as SAS, creating weekly data reports.

Data Analyst intern

COMMUNITY TRANSLATIONAL RESEARCH INSTITUTE

Claremont Graduate University

February 2020 - June 2020

- Monitored and developed data collection processes for the Diabetes Prevention Program.
 - Responsible for data cleaning of the electronic tracking system providing weekly reports. Removed 100
 - Identified and analyzed hotspots and activity spaces in Pomona Valley related to high diabetes incidence using Arc GIS.
 - Performed statistical analyses using SAS and SPSS, managing large datasets, using SAS to analyze participant demographics and program outcomes.
 - Coordinated with research staff in writing research papers related to the Stop Diabetes in its Tracks program outcomes.

Embryologist intern

BULAWAYO ASSISTED REPRODUCTIVE TECHNOLOGY CENTRE

Bulawayo

January 2017 - July 2018

- Performed semen analysis including sperm washing and freezing. Aided in intra uterine inseminations.
 - Led the quality control team of the clinic and participated in invitro fertilization procedures that entailed ova extraction and culture.

- Performed a full range of chemical, microbiologic, immunologic, and hematological laboratory procedures.
 - Operated and maintained laboratory equipment also troubleshoot/resolved instrument problems.
 - Led monthly and annual internal audits for accreditation.

Computer Skills

1. GIS Products {ArcGIS Pro, Online, Desktop, Enterprise, Server, and App Development using Web App Builder and other software, Insights, Spatial Analysis, QGIS, KNIME}
2. Advanced Statistical Analyses {SAS, STATA, R, SPSS, SQL, MPlus, Python, SQL, and Tableau}
3. Reproducible Report {Quarto, Markdown/Rmarkdown, Jupyter Notebook}
4. DevOps {Git, GitHub}
5. Microsoft {Excel, Word, Power Point and more}

Academic Publications

1. Ward MK, Gwanzura T, Rojas RR, Trepka MJ, Bursac Z, Wagner EF. Nonfatal opioid-related overdoses treated by emergency medical services in Florida, before and during the COVID-19 pandemic. *Preventive Medicine Reports*. 2023;31:102102. doi : 10.1016/j.pmedr.2022.102102
2. Chipidza W, Krewson C, Gatto N, Akbaripourdibazar E, Gwanzura T. Ideological variation in preferred content and source credibility on Reddit during the COVID-19 pandemic. *Big Data & Society*. 2022;9(1):20539517221076490. doi : 10.1177/20539517221076486.
3. Mshigeni SK, Rittenhouse A, Gwanzura T, Arroyo R, Vaughn C. Understanding Demographics Characteristics of E-Cigarette Users in California and the Need for Tailored Interventions. *American Journal of Health Education*. 2021;52(4):185-193. doi : 10.1080/19325037.2021.1930610
4. Chipidza W, Akbaripourdibazar E, Gwanzura T, Gatto NM. Topic Analysis of Traditional and Social Media News Coverage of the Early COVID-19 Pandemic and Implications for Public Health Communication. *Disaster Medicine and Public Health Preparedness*. Published online March 3, 2021:1-8. doi : 10.1017/dmp.2021.65.
5. Mtetwa S, Gwanzura TNR. Interrogating Child Rights Teaching in Bindura Schools – Zimbabwe. *International Journal of Educational Sciences*. 2017;18(1-3):200-213. doi : 10.1080/09751122.2017.1347233.