

## CURRICULUM VITAE: Akim Tafadzwa Lukwa

1. Family name: Lukwa
2. First name: Akim Tafadzwa
3. Date of birth: 17 January 1992
4. Nationality: Zimbabwean
5. Place of residence: South Africa, Cape Town
6. Email address and Phone number: [tafadzwalukwa@gmail.com](mailto:tafadzwalukwa@gmail.com), 0027-81-344-4201

7. **Education:**

| Institution (date from to)                        | Degree(s) or Diploma(s) obtained:            |
|---|--|
| University of Cape Town, South Africa (2021-2024) | PhD in Public Health- Health Economics       |
| University of Cape Town, South Africa (2017-2019) | Master's in public health - Health Economics |
| Midlands State University, Zimbabwe (2011-2015)   | BSc (Honours) Economics                      |

8. **Language Skills: Indicate competence on a scale of 1 to 5 (1 excellent - 5 basic)**

| Language | Reading | Speaking | Writing |
|----------|---------|----------|---------|
| English  | 1       | 1        | 1       |
| Shona    | 1       | 1        | 1       |
| Xhosa    | 5       | 5        | 5       |

9. **Membership of professional bodies:** N/A

**10. Other skills (e.g. Computer literacy, etc.): Ability to operate the following tools**

| <b>Statistical Analysis:</b>  | <b>Other skills gathered from:</b>  |
|---|---|
| • Microsoft Excel (including Pivots creations),                     | • Clinic on Dynamical Approaches to Infectious Disease Data, Stellenbosh University-DSI-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), South Africa             |
| • Proficient in Stata and SPSS                                      | • HEALTH TECHNOLOGY ASSESSMENT (HTA), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana   |
| • R (beginner in R mainly used it for data cleaning)                | • Introduction to R: Management, Exploration, and Communication of Data, Stellenbosh University-DSI-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), South Africa |
| • Microsoft Office  | • Introduction to Epidemiology and Research Methodology, Stellenbosh University-DSI-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), South Africa                 |
| • WHO Costing Model (beginner)                                      | • Health Financing for Universal Health Coverage, World Health Organisation.  |
| • Spectrum costing models, Decision-Making Modelling (Intermediate) | • Health Law, Global Health Law Groningen   |
| • OneHealth Costing Tool (Intermediate)                             | • Graduate School of Business, University of Cape Town  |
|   | • Financial Innovations for Economic Development, Milken Innovation Center, Jerusalem Institute for Policy Research, Israel.  |
|   | • Capacity Building in Malaria with a Focus on E-Learning, Swiss Tropical and Public Health Institute and the Ifakara Health Institute, Bagamoyo, Tanzania.                                   |
|   | • Mathematical Modelling for Infectious Diseases, University of Cape Town, South Africa.  |
|   | • Executive Certificate in Programme & Project Monitoring & Evaluation- University of Zimbabwe.   |

**11. Key qualifications/skills (relevant to the assignment)**

Experience with Cost Modelling of Services, Strategic Planning, Equity Resource Allocation in Health Financing, Sustainability and Funding needs development

Experience in Research and Consultancy- proposal and report writing, reviews, partner mapping, quality assurance, investment frameworks,

Experience with the Country's strategy and implementation of HIV programmes

Experience with budgeting, expenditure tracking and analysis tools

Experience in strategic planning; Experience in proposal and report writing

12. Professional experience record (most recent experience first)

| Date                             | Organization   | Position                       | Description   |
|----------------------------------|--|--------------------------------|---|
| September 2021 to September 2023 | <b>DSI-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA) Stellenbosch University</b> | Research Assistant (Part-time) | <p><b>Project: SmartNet Real-time Community (SNRC)</b><br/>While working at SACEMA, I was primarily tasked with analyzing malaria costing data for the SmartNet Real-time Community (SNRC) project. This analysis aimed to assist Vestergaard's endeavours in understanding the dynamics of malaria control. Additionally, I conducted comprehensive literature reviews to supplement the data and provide insights into the costs and benefits associated with the enhanced use of insecticide-treated nets. This was particularly pivotal for the development of the SNRC. Furthermore, I authored and submitted manuscripts for publication in peer-reviewed journals.</p> <p><b>Project: Dynamic Modelling for Hepatitis C Virus in South Africa</b><br/>For this project, I was developing a dynamic model related to the Hepatitis C virus in South Africa. Given the limited data available on the subject, one of my main responsibilities was systematically reviewing the virus's prevalence in the region. I also collaborated closely with the lead supervisor, offering guidance and support to a PhD student researching the dynamic modelling of Hepatitis B in South Africa.</p> <p><b>Project: 2023 UNAIDS Reference Group on Estimates, Modelling, and Projections</b><br/>SACEMA holds the secretariat position for the 2023 UNAIDS Reference Group on Estimates, Modelling, and Projections. In this capacity, my role involved assisting the Senior Scientist. My duties included documenting meeting minutes, drafting meeting reports, and actively participating in discussions centred around modelling estimates.</p> |

| Date                           | Organization      | Position            | Description   |
|--------------------------------|-------------------|---------------------|---|
| December 2020 to December 2022 | Genesis-Analytics | Analyst (Part-time) | <p><b>Project: Assessing Patient Out-of-Pocket Expenditure as a Barrier to TB Services in Mozambique</b><br/> I was tasked with ensuring data quality assurance in real-time as information streamed in from the field. My involvement extended to both quantitative and qualitative data analysis. Furthermore, I co-authored the concluding report and played an instrumental role in disseminating the study's findings.</p> <p><b>Project: Assessing Patient Out-of-Pocket Expenditure as a Barrier to TB Services in Zambia</b><br/> I contributed to creating the protocol, designing costing tools, piloting them, and procuring ethical clearance. My role also encompassed coordinating training sessions on cost data collection and its subsequent entry. I assisted in analyzing provider cost data and lent my expertise to the report and manuscript drafting process.</p> <p><b>Various Projects</b><br/> Within the health economics team, I offered support in implementing diverse projects. I actively collect primary and secondary data, stepping in when necessary to supervise or assist. My responsibilities also included conducting economics-focused analyses, making project-specific visits for stakeholder interviews and data gathering, and creating and populating costing models. I routinely handled tasks like data analysis, data cleansing, and visualization. Moreover, I prepared meticulously reasoned documentation. Additionally, I delivered written evaluations related to health economics and financing policies, strategies, and budgets. I was also involved in developing and maintaining program databases and dashboards.</p> |

### 13. Consultancy experience

| County       | Organization  | Year                           | Assignment   |
|--------------|---|--------------------------------|--|
| South Africa | Health Economics and Epidemiology Research Office (HE2RO) | April 2024 - Current           | <b>Researcher: Health Economist</b> - At HE2RO, I am currently contributing to several ongoing projects under the EXPAND, WRHI PrEP Costing, and EVIDENCE grants. My responsibilities encompass research development and design, study implementation, data collection and management, analysis, and dissemination of results. For the EXPAND project, I am overseeing ethics compliance, including managing ethics applications and completing necessary progress reports. Additionally, I am supporting the Discrete Choice Experiment (DCE) by setting up the study, training the data collection team, launching the DCE, and overseeing the completion of data collection and analysis. I am also assisting in the development and population of costing tools and managing patient-level data for micro costing, while training and managing data collectors. In the WRHI PrEP Costing project, I am responsible for managing data collection, including Time and Motion (T&M) and costing data for both phases, as well as site and above-site level data. I am developing and populating costing tools for both oral-only and choice models and drafting summary reports of the study results. |
| Namibia      | ABT Associates  | September 2023 – February 2024 | <b>Assistant Health Economist</b> - In collaboration with the Lead Consultant, I played a pivotal role in a consultancy project aimed at estimating the costs associated with implementing Namibia's Essential Health Service Package (EHSP) from 2023 to 2028. My responsibilities included providing detailed background information on Namibia's healthcare landscape, outlining the methodology utilized, and presenting the results obtained. Through thorough research, interviews, and literature reviews, we customized the One-Health Tool (OHT) to suit Namibia's context, prioritizing interventions aligned with the EHSP and meticulously estimating unit costs and labour requirements. The results section detailed target populations, coverage projections, delivery channel distributions, and total costs for drugs, supplies, and labour across various disease interventions. This consultancy work serves as a valuable resource for policymakers and stakeholders, guiding strategic decision-making for the effective and sustainable delivery of essential health services in Namibia.  |
| South Africa | Western Cape Government                                   | June 2023-September 2023       | <b>Health Economist Consultant</b> - As a Health Economist Consultant, I was entrusted with the economic evaluation of the TB telehealth intervention project initiated by the Western Cape Department of Health (WCDOH) in collaboration with the United States Agency for International Development (USAID) and the Department of the Premier (DoTP). My role primarily focused on assessing the effectiveness, impact, and value of this telehealth approach to determine its viability for broader implementation. I extensively evaluated its cost-effectiveness and efficiency, compared the investment and derived value against the standard TB care package, and extrapolated the intrinsic and prospective value of the project.   |
| South Africa | Genesis Analytics   | January 2023-July 2023         | <b>Lead Data Analyst</b> - As the Lead Data Analyst for a comprehensive study on out-of-pocket expenditure (OOPE) by tuberculosis (TB) patients in Lesotho, Malawi, Mozambique, and Zambia, I played a pivotal role in updating the analysis by executing do. files and fine-tuning the report regarding text, tables, figures, and annexures. I actively participated in planning meetings, contributing valuable insights to discussions and framing the study's recommendations. Additionally, I was responsible for creating slides for the draft report presentation and seamlessly incorporated stakeholder feedback to enhance the final report. My role was crucial in addressing final comments and refining the executive summary. This project aimed to inform strategies to alleviate the economic burden of TB, and my analytical contributions were central to achieving that objective.   |

| County               | Organization   | Year                       | Assignment  |
|----------------------|--|----------------------------|---|
| South Africa         | University of Cape Town, University of Johannesburg & The London School of Hygiene & Tropical Medicine (LSHTM) | October 2022-March 2023    | <b>Data Manager-</b> I spearheaded the critical role of transitioning raw data to a refined, processed format for a study addressing barriers to treatment access for Substance Use Disorder (SUD) among men in multiple South African regions, spanning both urban and rural communities. My proficiency ensured meticulous data cleansing, ensuring the integrity and reliability of the results. Furthermore, I authored the intricate methodology section, ensuring a robust foundation for the research. I subsequently composed the results segment for the monograph, capturing the depth and breadth of the study's findings. |
| Guinea               | UNAIDS   | July 2021                  | <b>Research Assistant-</b> I supported a review assignment to enhance private sector involvement in sustainable funding for Guinea's response to HIV/AIDS and tuberculosis.   |
| South Africa         | Swiss Agency for Development Cooperation (SDC) / JIMAT   | March 2021 to July 2021    | <b>Researcher for REPSSI Evaluation-</b> Assisted the South African Country Expert in conducting an End of Programme Evaluation for REPSSI, funded by SDC, spanning six countries with a focus on South Africa. Responsibilities included inception report development, literature review, data collection tool creation, management of the ethical clearance process, training field data collectors, gathering data from key senior stakeholders, participating in data analysis, and contributing to draft and final report writing.   |
| Zimbabwe and Liberia | Global Fund  | June 2021                  | <b>Research Assistant-</b> Supported the peer review for the Covid-19 Response Mechanism (C19RM)" Funding Request, Reviewed the budget, Funding landscape, and Narrative provided by the two countries to the Global Fund   |
| South Africa         | UNICEF   | June 2021                  | <b>Research Assistant-</b> Assisted with the consultancy project on "Policy Guidance on Reinvestment of Procurement Savings to Increase Fiscal Space for Children", focusing on procurement spending architecture in South Africa and conducted and analyzed key informant interviews related to the topic.   |
| Ethiopia             | UNAIDS Ethiopia  | November 2019-October 2020 | I supported the International Co-Consultant with the National AIDS Spending Assessment for Ethiopia.  |
| Mozambique           | Anardako-International SOS   | April 2014-May 2014        | Assistant Entomologist- Collaborated with International SOS for a consultancy project at Anadarko Petroleum. Responsibilities included mosquito larvae sampling through larval surveys, adult mosquito sampling via aspirations, Pyrethrum Spray Catches, and CDC light traps. Managed and conducted mosquito rearing in the insectary, performed vector mapping using GPS, and contributed to the review and finalization of the report.   |

## TEACHING EXPERIENCE

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Division of Health Economics

01/2018 – 12/2023 Practicals on STATA

*Graduate Teaching Assistant*

Cape Town, South Africa

Quantitative Methods for Health Economists (QMHE)

*Practicals on STATA*

*Teaching Health Economics Post Graduate Diploma classes and grading*

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14. **Other relevant information (e.g. Publications, Patents, Other education, Seminars, lectures attended, Scholarships received):**

## **PUBLICATIONS / RESEARCH PRODUCTS/ POLICY BRIEFS /CONFERENCE PRESENTATIONS**

### **Peer-Reviewed Publications**

1. **Lukwa, A.T.**, Lambert, E.V., Wayas, F.A. and Alaba, O.A., 2024 Stakeholder Mapping to Explore Social and Economic Capital of Rotating Savings and Credit Associations (ROSCAs) to Increase Demand for and Access to Healthy Food. *Frontiers in Sustainable Food Systems*, 8, p.1301578. <https://doi.org/10.3389/fsufs.2024.1301578>
2. Alaba, O.A., Chiwire, P., Siya, A., Saliu, O.A., Nhakaniso, K., Nzeribe, E., Okova, D. and **Lukwa, A.T.**, 2023. Socio-Economic Inequalities in the Double Burden of Malnutrition among Under-five Children: Evidence from 10 Selected Sub-Saharan African Countries. <https://doi.org/10.3390/ijerph20085489>
3. Alaba, O.A.; Hongoro, C.; Thulare, A.; **Lukwa, A.T.**, 2022. Drivers of socioeconomic inequalities of child hunger during COVID-19 in South Africa: Evidence from NIDS-CRAM Waves 1-5. *BMC Public Health*, <https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-022-14482-1>
4. **Lukwa, A.T.**, Siya, A., Odunitan-Wayas, F.A. and Alaba, O., 2022. Decomposing maternal socioeconomic inequalities in Zimbabwe, leaving no woman behind. *BMC Pregnancy and Childbirth*, 22(1), pp.1-16. <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-022-04571-9>
5. **Lukwa, A.T.**, Odunitan-Wayas, F., Lambert, E.V., Alaba, OA and "Savings for Health" IDRC Collaborators, 2022. Can Informal Savings Groups Promote Food Security and Social, Economic and Health Transformations, Especially among Women in Urban Sub-Saharan Africa: A Narrative Systematic Review. *Sustainability*, 14(6), p.3153. <https://www.mdpi.com/2071-1050/14/6/3153>
6. Alaba, OA; Hongoro, C.; Thulare, A.; **Lukwa, A.T.** Leaving No Child Behind Decomposing Socioeconomic Inequalities in Child Health for India and South Africa. *International Journal of Environmental Research and Public Health* 2021. <https://pubmed.ncbi.nlm.nih.gov/34281051/>
7. **A.T. Lukwa**, K.N. Zablon, A.Siya, J. Azam, O. Alaba. (2020): Socioeconomic inequalities in food insecurity and malnutrition among under-five children: within and between-group inequalities in Zimbabwe. *Public Health Journal (BMC)*. <https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-020-09295-z>
8. A.Siya, A.Egeru, J. Kalule, **A.T Lukwa** & B. Ssentongo (2020): Malaria patterns across altitudinal zones of Mount Elgon following intensified control & prevention programs in Uganda. *Infectious Diseases Journal (BMC)*. <https://bmcinfectdis.biomedcentral.com/articles/10.1186/s12879-020-05158-5>
9. **A.T. Lukwa**, R. Mawoyo, K.N. Zablon, A.Siya, O. Alaba. (2019): Effect of malaria on productivity in a workplace: A case of a banana plantation in Zimbabwe. *Malaria Journal (BMC)*. <https://malariajournal.biomedcentral.com/articles/10.1186/s12936-019-3021-6>
10. Aggrey Siya, Benard Ssentongo, Derrick Bary Abila, Arthur M. Kato, Howard Onyuth, Denis Mutekanga, Isaac Ongom, Edmond Aryampika & **Akim Tafadzwa Lukwa** (2019): Perceived factors associated with boda-boda (motorcycle) accidents in Kampala, Uganda, *Traffic Injury Prevention*. <https://www.tandfonline.com/doi/abs/10.1080/15389588.2019.1658084?journalCode=gcpi20>
11. N. Lukwa, T. Mduluz, C. Nyoni, **A.T. Lukwa**, M. Zimba (2018). Knock down and insecticidal activity of the plants *Tagetes minuta*, *Lippia javanica*, *Lantana camara*, *Tagetes erecta*, and *Eucalyptus grandis* on *Anopheles arabiensis*. *Journal of Entomological and Acarological Research*, 50, 7241. <https://doi.org/10.4081/jear.2018.7241>

### **Book Chapter**

1. Mario J. Azevedo, **Akim T. Lukwa** and Olufunke Alaba (2019). *African Economic Development*. Chapter 13; Health and Economic Development. 2nd Edition; Emerald Publishing Limited.



## 15. References

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