

## **MANDY SIGAMETSI PHUTI**

**LinkedIn:** [linkedin.com/in/mandy-sigametsi-phuti-00879399](https://linkedin.com/in/mandy-sigametsi-phuti-00879399)

**Email:** [mandyphuti@gmail.com](mailto:mandyphuti@gmail.com)

**Phone:** +27815537613

Dedicated researcher with expertise in public health, climate change, environmental health, and social science research. Research interests focus on the impacts of climate hazards on children's and adolescents' health, education, and social systems in low- and middle-income countries (LMICs). Holds a Master of Public Health (Environmental Health) and certifications in climate change mitigation, adaptation, and research impact. Brings a multidisciplinary approach to addressing complex health challenges, with a strong commitment to advancing evidence-based solutions that inform policy and practice.

## **EDUCATION**

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### **Master of Public Health, specialising in Environmental Health (Distinction).**

University of Cape Town (UCT), South Africa- 2023

**Thesis title:** The relationship between reproductive hormones and asthma-related outcomes in boys residing in the rural Western Cape.

### **BSc Honours Degree in Environmental Science and Health**

National University of Science and Technology, Zimbabwe (2011-15)

**Thesis title:** An Analysis of Pollution Variation along the Umgusa River Using Plankton as Indicators (Distinction).

### **Occupational Safety, Health, and Environmental Management Certificate**

National Social Security Authority, Zimbabwe- 2016

**Thesis title:** An Assessment of Occupational Safety and Health Hazards of Small-Scale Welders in Kelvin Industrial Site, Bulawayo.

## **SHORT COURSES & CERTIFICATIONS**

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- Research for Impact offered by the University of Cape Town & Oxfam on Coursera. (2019)
- Climate Change Mitigation in Developing Countries offered by the University of Cape Town on Coursera. (2019)
- Climate Adaptation in Africa by the University of Cape Town on Coursera. (2019)

## **WORK HISTORY**

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### **Research Analyst at the University of Cape Town within the Centre for Social Science Research (CSSR)- 2023- Present**

- Conduct research focused on adolescents' health and well-being, contributing to multi-country evidence reviews.

- Lead and coordinate a sub-team within a larger research project, including preparing agendas, tracking deliverables, and reporting progress to senior researchers.
- Support academic writing and publications, including literature synthesis, drafting sections, and formatting manuscripts.
- Perform quantitative data analysis, including data management, cleaning, and interpretation.
- Contributing to publications and dissemination for academic and policy audiences.
- Created visualizations to present research data and findings.
- Prepared detailed reports summarizing research findings and recommendations for further action.

**Research Assistant at the University of Cape Town within the Environmental Health Division – April 2021-November 2022**

- Database management work for the Strategic Approach to International Chemicals Management (SAICAM) project
- Updating databases
- Data cleaning, analysis, and presentation (tables and figures) using Microsoft Excel and Pivot Tables.
- Provide support and assistance to project team members related to the datasets.
- Giving feedback in quarterly reports and project meetings on the dataset
- Escalating tasks to respective personnel
- Participated actively in regular meetings with fellow researchers to discuss project updates, challenges faced, and lessons learned during ongoing activities.

**Research Intern at the African Climate and Development Initiatives, University of Cape Town - April 2019- November 2019.**

<http://www.acdi.uct.ac.za/news/my-internship-acdi-mandy-sigametsi-phuti>

- Part of the WUN African Climate Resilient Landscapes project: Carrying out literature and evidence reviews, including identifying relevant research evidence and writing up key findings.
- Working as part of a research project team and actively participating in project meetings, being part of working groups and contributing to the preparation of research proposals
- Assisting in other tasks to support the work of the research team as required. This involved some research administration.
- Proof-reading reports, events programmes and marketing material for clarity and accuracy to ensure they meet our high-quality standards.
- Updating the institution's reference database on EndNote
- Completed research, compiled data, and assisted in timely reporting.

## **Environmental Officer Intern at the Environmental Management Agency in Matabeleland North Province, Zimbabwe - June 2013- September 2014**

- Data collection and capturing, collecting water and soil samples using approved biological, chemical, and other scientific testing procedures for laboratory testing and analysis.
- Monitoring air emissions, solid waste, and Environmental Management Plans (EMPs) as well as conducting billings and issuing quarterly permits.
- Conducting Environmental Impact Assessments (EIA) review and assist in the approval and Assist in the monitoring and protection of fragile ecosystems such as wetlands and the elimination of invasive species.
- Inspecting vehicles and premises that transport or store Hazardous Substances.
- Environmental education, trainings, and Monthly and quarterly Report writing.
- Collected water samples from semi-processed, processed and raw water.
- Sorted and organized files, spreadsheets, and reports.

## **SKILLS**

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- **Statistical software skills:** R, Stata (Beginner), and Microsoft Office Suite.
- **Referencing software:** EndNote
- **Statistical Analysis:** Proficient in analysing datasets and skilled in hypothesis testing, regression analysis, and survival analysis.

## **Publications**

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Phuti, M. S., Dalvie, M. A., Olaniyan, T., Basera, W., & Jeebhay, M. F. (2025). The association between reproductive hormones and asthma-related outcomes in boys in the rural Western Cape Province, South Africa. *South African Medical Journal*, 115(11), e3050. <https://doi.org/10.7196/SAMJ.2025.v115i11.3050>

## **REFERENCES**

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### **Dr William Rudgard**

Senior Postdoctoral Researcher, Department of Social Policy and Intervention, University of Oxford, Email: [william.rudgard@spi.ox.ac.uk](mailto:william.rudgard@spi.ox.ac.uk)

### **Elona Toska, DPhil**

Associate Professor: Department of Sociology; Centre for Social Science Research, University of Cape Town. Tel: +27818629611; Email: [elona.toska@uct.ac.za](mailto:elona.toska@uct.ac.za)

### **Prof. Aqiel Dalvie**

Deputy Director: Centre for Environmental and Occupational Health, School of Public Health and Family Medicine, University of Cape Town, Tel: +27 21 406 6610; Email: [aqiel.dalvie@uct.ac.za](mailto:aqiel.dalvie@uct.ac.za)