

Curriculum Vitae: Edith Mshoperi

Nationality	Zimbabwean
Education	PhD candidate Chemical engineering (in progress) University of Cape Town
	Masters in science Biotechnology (2015) Rhodes University
	Bachelor of Science – Biochemistry and Microbiology (2012) Rhodes University
Languages	English (fluent), Shona (fluent),
Membership of professional bodies	<ul style="list-style-type: none"> SACNASP – South African Council for Natural Scientific Professionals

Employment record

Jan 2023 – To date	Technical Analyst and Project Manager One World Group
2020 – 2022	Project manager and ESG consultant Relativ Impact
2019 - 2020	Researcher consultant Relativ impact
2019	Mentor Eskom Expo for Young Scientists
2018 - 2020	Teaching Assistant University of Cape Town
2015 to 2018	Educator (CAT grade 10 to 12) Rosebank progress college
2014 - 2015	Graduate teaching assistant Microbiology Rhodes University
2013 – 2014	Freelance science communicator (Writer) NPEP Nano Newsletter
2014	Maths and Science tutor Grahamstown Educenter (Makhanda)
August 2012, 2013, and 2014	Scifriend; Venue Manager and Information desk coordinator Scifest Science Festival. Grahamstown Foundation

Relevant professional experience



March 2021 to December 2022 Impact measurement and management and reporting assistance
Relativ Impact

Team member (project coordinator)

Supported the development of impact measurement frameworks and tools to aid clients in establishing output and outcome-based indicators and targets for programs; Coordinating data gathering and collation including assessing progress made against project indicators for operational and strategic quarterly and annual reporting to C suite (EXCO and Board) and external stakeholders. Noteworthy public disclosure contributions include:

- Old Mutual Sustainability and Climate Report 2021 (published 2022)
- Old Mutual Responsible Business Impact Report 2020 (published 2021)
- Old Mutual 2020 UNGC Communication of Practice (published 2021)
- The Clothing Bank Impact Report (2020) (published 2021)
- Gold Youth Development Agency Impact Report (2020) (published 2021)
- FHI AGYW employment empowerment market scan (2020)
- Oxfam South Africa Donor analysis (2019)

Jan 2021 to Dec 2022 Theory of change development
Relativ Impact

Team member (project coordinator)

Design and conduct desktop research and quantitative data analysis to identify and map impact pathways. Supported and facilitated theory of change development consultations with clients to build team competency and capacity to review and maintain their theory of change.

Jun 2020 to Dec 2022 Desktop research
Relativ Impact

Team member (data analyst, researcher, and account manager)

Collection, review, and critical synthesis of internal and publicly available data to generate efficient and usable white papers, research papers, market scans, landscape analysis, donor scoping, literature reviews, strategy documents and positioning statement pieces tailored according to the brief.

Feb 2016 to Dec 2019 Quantitative research
University of Cape town

Researcher

The project entailed a lab-based analysis of the feasibility and performance improvement of anaerobic digestion of sugarcane molasses vinasse using desalination pre-treatment methods. The primary goal of the research was the achievement of effective bioremediation of vinasse with the inclusion of a value addition step has the potential to improve the sustainability of vinasse remediation, reduce the limitations of ethanol production, enhance resource productivity, and improve the process economics.

Publications and Conference Papers (selected)

Peer-reviewed Research-based Reports

Mshoperi, E. Fogel, R. Limson, J. (2014). Analysis of the synergistic effect of carbon black and iron phthalocyanine cathode modification in Microbial Fuel Cells. *Electrochimica Acta*. 128:311-317

Limson, J. Mtambanengwe, K. Mshoperi, E. Fogel, R. Laubscher, R. (2013). The Beneficiation of Algal Biomass from a Low-cost sewage treatment system as a feedstock in Microbial Fuel Cells. 224th ECS meeting. Conference paper.

Presentations



- Mshoperi, E. (2020). Bioremediation of South African molasses vinasse with associated value recovery through anaerobic digestion. Presentation for “Biosafety Symposium 2020”. Cape town South Africa 2 – 3 March 2020
- Mshoperi, E. (2018). Bioremediation of vinasse with associated value recovery through its pre-treatment and anaerobic digestion. Centre for Bioprocess Engineering Research (CeBER), Department of Chemical Engineering, University of Cape Town, South Africa 29 November 2018.
- Mshoperi, E. (2013). Analysis of the synergistic effect of carbon black and iron phthalocyanine cathode modification in microbial fuel cells. 13th Topical Meeting of the International Society of Electrochemistry Advances in Electrochemical Materials Science and Manufacturing. Conference paper.