



DETAILS OF SPECIALIST AND DECLARATION OF INTEREST IN TERMS OF REGULATIONS 12 AND 13 OF THE AMENDMENTS TO THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 AS AMENDED.

(For official use only)

File Reference Number:

NEAS Reference Number:

Date Received:

Application for environmental authorization in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Amendments to the Environmental Impact Assessment Regulations, 2014. This form is valid as of 6 January 2021.

PROJECT TITLE

THE PROPOSED BLIKANA RIVER BULK DAM BULK SUPPLY SCHEME, SENQU MUNICIPALITY, EASTERN CAPE PROVINCE.

SPECIALIST ¹

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s) (if any)

Palaeontological Impact Assessment

Silindokuhle Mavuso

P.O Box 94, Grahamstown

6140

Cell:

079 945 2506

046 603 8511

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s.mavuso@ru.ac.za

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Abantu Environmental Services (Pty) Ltd		
Sive Mlamla		
41 Avon Place, Overbaakens, Gqeberha		
6070	Cell:	078 207 8278
041 582 2648	Fax:	086 685 9536
info@abantuenvironmental.co.za		

4.2 The SPECIALIST

I, **Silindokuhle Mavuso**, declare that –

General declaration:

- I act as the independent Specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not

- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Amendments to Environmental Impact Assessment Regulations, 2014 as amended.
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~



Signature of the Specialist:

Name of company:

Umsuka Public Palaeoanthropology Project

Date:

Signature of the Commissioner of Oaths:



Date:

ADMIN CLERK

Designation:

1 Curriculum Vitae (CV) attached

Official stamp (below).



**MAGISTRATE COURT
 HIGH STREET
 PRIVATE BAG X1004
 GRAHAMSTOWN**

Annexure 1

CV

CURRICULUM VITAE OF SILINDOKUHLE SIYABONGA MAVUSO

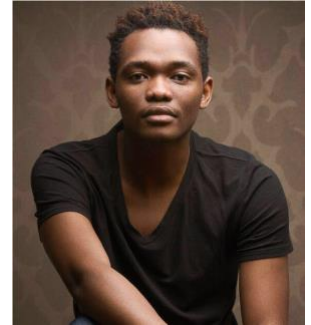
Lecturer, Department of Geology, Rhodes University
Adjunct Professor, School of Human Evolution and Social
Change, Arizona State University

Makhanda/Grahamstown 6140, South Africa s.mavuso@ru.ac.za

+27 79 945 2506

+27 46 603 8511

Languages: English (advanced) isiZulu (advanced), Afrikaans (intermediate)



RESEARCH INTERESTS

African geology, palaeoecological evolution and development through time: Geology and stratigraphy; karstology/carbonate sedimentology formation, context for mammalian and human evolution. Clastic sedimentology, sequence stratigraphy and application, field sedimentology and mapping, provenance studies and basin dynamics, palaeoenvironments and palaeogeography, bulk and isotope geochemistry. Karoo sedimentology, stratigraphy and basin development
Science communication, public engagement and understanding; community capacity building human, heritage and policy, science outreach and school curriculum reform

ACADEMIC QUALIFICATIONS

- 2025 **PhD, Geology, University of the Witwatersrand (Graduation in July 2026)**
Supervised by Dr Zubair Jinnah and Dr Robyn Pickering
Thesis title: *Sequence stratigraphy of the upper Koobi Fora Formation, Turkana Basin: Hominid habitat and geographic controls in the Pleistocene of eastern Africa*
- 2017 **M.Sc. Geology, University of the Witwatersrand**
Supervised by Prof Dominic Stratford and Dr Christine Steininger
Dissertation title: *The sedimentology of the Jacovec Cavern, Sterkfontein, Cradle of Humankind*
- 2015 **Masters Mobility Erasmus Mundus (AESOP - A European and South African Partnership on Heritage and Past) Scholarship**, University of Toulouse III - Paul Sabatier, France and University of Bordeaux
Supervised by Prof Richard Maire and Dr Laurent Bruxelles
- 2014 **B.Sc (Honours) Palaeontology and Geology, University of the Witwatersrand**
Supervised by Dr Michael Day and Prof Bruce Rubidge
Project Title: *A bio- and litho-stratigraphic study of the northern Karoo Basin Near Virginia (in partial completion of the qualification)*
Obtained degree with Upper Second Pass
- 2013 **B.Sc. Geology, Archaeology and Environmental and Geographical Sciences, University of Cape Town**

GRANTS AND SCHOLARSHIPS

- 2023 -2024 Environmental Resources Management (R40 000)
- 2022 - 2024 DSI-NRF Research Development Grants for New Generation of Academics Programme (nGAP) Scholars (R44 000)
- 2022 - 2026 Rhodes University Research Grant (R30 000 per year, every year)
- 2022 - 2026 **Turkana Basin Institute** Research Fund (R1 369 593,41)- Refining the Later Pleistocene Geoarchaeological Record of the Turkana Basin
- 2020 **School of Geosciences** Travel Grant (R10 000)
- Centre of Excellence in Palaeosciences (CoE-Pal)** Doctoral Degree Bursary R120 000)
- 2018 - 2020 **National Geographic Grant** Merging Tourism and Secondary Education in the Advancement of Public Palaeoanthropology in the Cradle of Humankind, South Africa (R310 000) - Project member turned leader and facilitator.
- 2015 - 2016 **Palaeontological Scientific Trust (PAST)** Research Grant (R30 000)
- Centre of Excellence in Palaeosciences (CoE-Pal)** Master's Degree Bursary R30 000)
- National Research Foundation (NRF)** Scarce Skills Grant (R80 000)
- 2014 - 2015 **Laetoli Palaeoecology Project National Research Foundation, South Africa and Commission for Science and Technology (COSTECH), Tanzania** R10 000) - Project member (resident geologist)
- 2014 **Centre of Excellence in Palaeosciences (CoE-Pal)** Honours Bursary (R30 000)
- National Research Foundation** Freestanding Grant (R40 000)
- 2013 **Palaeontological Scientific Trust (PAST)** Student Fieldwork Grant, Koobi Fora Field School (R15 000)

WORKSHOPS

- 2025 Speaker, Nurturing the next generation: Practical dialogues on academia, career path and experiences, Rhodes University
- 2023 From UNESCO Sites to Communities of Knowledge, Casa de Velázquez, Madrid, Spain
- 2021 Introduction to Stable light Isotopes, University of Cape Town
- 2020 International Educational Summer School: Offshore Field Development
- 2019 Introduction to Secondary Ion Mass Spectrometry (SIMS) in the Earth Sciences, University of the Witwatersrand
- SAS-SEG drilling course, Council for Geoscience
- 2018 Postgraduate Writing Workshop, University of the Witwatersrand
- 2014 Sequence Stratigraphy in Hydrocarbon Exploration, Total West Africa

EMPLOYMENT HISTORY

- Oct 2025 - **Lead Researcher, Department of Co-Operative Governance and Traditional Affairs** for Gauteng Provincial Dolomite and Sinkhole Risk Reduction and Preparedness Strategy
- Jul 2025 - **Adjunct Professor, School of Human Evolution and Social Change, Arizona State University**
- May 2022- **Advisor, Eastern Cape Provincial Heritage Resources Authority (ECPHRA)**
Board Member, Archaeology, Palaeontology And Meteorites - *Burial Grounds And Graves Permit Review and Advisory Committee*
- Jun 2020 **Lecturer, Department of Geology, Rhodes University**
- Jan 2019 - **Manager, National Geographic "Umsuka" Public Palaeoanthropology Project, Cradle of Humankind**
Duties included organising and facilitating, workshops, engagements and meetings for the Cradle of Humankind stakeholders on shared public understanding of palaeontology and geology of the area.

- 2018 - **Guest Lecturer, University of the Witwatersrand (School of Geosciences)**
Lectured in Sedimentary Basin Analysis (Honours) and Cenozoic stratigraphy palaeontology and archaeology (second year).
Recurring role
- 2014 - 2019 **Senior Tutor, University of the Witwatersrand (School of Geosciences)**
Assisted in second year Sedimentology classes along with grading and tutoring.
Recurring role
- Oct 2015 - May 2017 **Curriculum Content Consultant, Institute for Digital Education Africa (IDEA)**
Duties included designing visual content for educational supplement in high school curriculum.
Fixed contract position
181 Jan Smuts Ave, Rosebank, Johannesburg, 2196
- 2014 - 2015 **Tutor, University of the Witwatersrand (School of Geosciences)**
Assisted in Introduction to geology and palaeontology class (first year).
Recurring role
1 Jan Smuts Avenue, Braamfontein 2000, Johannesburg
Tel: +27 11 717 6570
- Jan 2011 – Jan 2014 **Orientation Leader, University of Cape Town (Faculty of Science)**
Duties included assisting and mentoring first year intake of students in the Faculty of Science.
Fixed contract position
Level 6, PD Hahn Building, North Lane, University of Cape Town
Tel: +27 11 717 6013
- Mar 2012 – Jan 2013 **Orientation Trainer, University of Cape Town Student Orientation and Advocacy Service**
Duties included training new orientation leaders that would assist first year students in all faculties at the university.
Fixed contract position
Room 201, Computer Science Building, Cissie Gool Plaza, Upper Campus
Tel: +27 21 650 5082
- Sep 2012 – Feb 2013 **Researcher, Economic Policy and Research Institute**
Hired as a data analyst of their raw data intake. Duties included data capturing, sorting and analysis.
Fixed contract position
3rd Floor Sunclare Building, 21 Dreyer Street, Claremont 7708, Cape Town
Tel: +27 21 671 3301

TEACHING EXPERIENCE

- 2025 - **Sedimentary basin analysis and African Stratigraphy.**
Department of Geology, Rhodes University
Resident sedimentology lecturer (permanent). Lectures on basin history and sequence stratigraphy with the African basins and tectonics.
- 2021 - **Sedimentary geology and South African Stratigraphy.**
Department of Geology, Rhodes University
Resident sedimentology lecturer (permanent). Lectures on stratigraphy, sedimentary geology, palaeoenvironments for second- and third-year geology students.
- 2023 - **Human evolution.**
Department of Anthropology, Rhodes University
Resident lecturer (permanent). Lectures on human evolution for first year and third year.
- 2020 **The African Human Record: Geology and palaeoanthropology of southern and eastern Africa, third year course.**
Department of Geology, Rhodes University
Commissioned by Dr Zubair Jinnah. Guest lecture on stratigraphy, sedimentary geology, palaeoenvironments and research efforts of continental rift basins in eastern African hominid sites.
- 2019 **The Cenozoic: Sedimentology, Stratigraphy and Palaeontology, second year course.**
School of Geosciences, University of the Witwatersrand
Historical geology course on deep time. This segment involved Cenozoic stratigraphy (with an emphasis on African record) as well as geological markers on environmental change and human/mammalian evolution.
- 2018 **Sedimentary Basin Analysis: Extensional basins, Geology Honours.**
School of Geosciences, University of the Witwatersrand
Rift basin sedimentology and tectonics as part of their Sedimentary Basin analysis module (oil and gas exploration) with an emphasis on African case studies, particularly the East African Rift System and Turkana Basin.
- 2017 **Geoarchaeology: Micromorphology (petrography and mineralogy). Archaeology Honours.**
Department of Archaeology, University of the Witwatersrand
Introduction to micromorphology and the relevance in archaeology and geoarchaeology. The focus was on inland karst and open-air sites in the coastal South Africa
- 2016 **Lecture series: Principles of geology in the Turkana Basin.**
Koobi Fora Field School, George Washington University.
Lecture in historical geology as well as provide context in rift basin sedimentology for the Turkana Basin.
- 2016 -2019 **Adult education outreach lecture series, public lecture. African Digital Education and Training.**
“Umsuka” Cradle Ambassadors National Geographic Programme; created content and designed it in context with the course outline. Content included deep time, stratigraphy, interpreting the rock record and basic rock identification.
- 2016 **Geology of the Cradle of Humankind: Science communication.**
Maropeng Museums.
The training of tour guides in Sterkfontein and Maropeng; Cradle of

Humankind: Understanding geology and stratigraphy. This was done by introducing basic geological concepts and rock identification to contextualize Cradle tours.

2014 - 2019 **Human evolution: Geology of the Cradle of Humankind. American School in Johannesburg.**
Senior class lecture on application of geology in palaeoanthropology

STUDENT SUPERVISION

- 2025 ***Bukho Charles** (Geology MSc student from Rhodes University, SA)
Project title: Lake Level Fluctuation in the Pleistocene Turkana Basin, Kenya: Sequence Stratigraphy Modelling of the KBS Member, Koobi Fora Formation, Omo Group. Passed with distinction
- 2024 ***Molatelo Chokoe** (Geology Honours student from Rhodes University, SA)
Project title: Depositional history associated with earliest evidence of hominin-controlled fire use, Okote Member, Koobi Fora Formation: sedimentology of the Middle Pleistocene in the Karari subregion. Passed with upper second
- * **Mmakgatla Sathekge** (Anthropology Honours student from Rhodes University, SA)
Project title: How cultural beliefs influence the teaching of evolutionary theory amongst high school teachers in Makhanda. Passed research project with distinction
- 2023 ***Madeleine Oricchio** (Committee member in honours project from Arizona State University, USA)
Project title: Studying Darwin's Hunch: A reflexive study of scientific racism in palaeoanthropology in South Africa
- ***Lisa Marashula** (Anthropology Honours student from Rhodes University, SA)
Project title: Behind the Loupe: analysing how the Eastern Cape's South African Police Service Forensic Department investigates unidentified human remains. Passed with upper second
- 2022 ***Bukho Charles** (Geology Honours student from Rhodes University, SA)
Project title: Lake Level Fluctuation in the Pleistocene Turkana Basin, Kenya: Sequence Stratigraphy Modelling of the KBS Member, Koobi Fora Formation, Omo Group. Passed with upper second
- ***Krystal Koski** (undergraduate student from University of Michigan, USA)
Project title: Faunal community composition across varied palaeoenvironmental contexts. Passed research project with distinction
- 2021 **Khayakazi Mdwantsi** (Geology Honours student from Rhodes University, South Africa)
Project title: Geochemistry and occurrence of phosphatic stromatolites at South African coasts. Passed with second class
- 2019 ***Wendy Khumalo** (postgraduate student from University of Cape Town, South Africa)
Project title: Depositional phases in the Upper Burgi - KBS: Sequence stratigraphy of the early Pleistocene northeastern Turkana Basin. Passed research project with distinction, class medalist
- ***Caitlin Craig** (undergraduate student from University of Victoria, Canada), Co-supervised with Dr Sarah Hlubik
Project title: The chronostratigraphic and depositional history of the FxJj20 Site Complex. Passed research project with distinction
- 2018 ***Brady Kelsey** (undergraduate student from University of Florida, USA). Co-supervised with Dr Kathryn Ranhorn.
Project title: The Stratigraphy of MSA-bearing deposits of the Middle to Late Pleistocene in the East Turkana Basin. Passed research

project with distinction.

2016 ***Michael Ziegler** (Undergraduate student from University of Georgia, USA).
Co-supervised with Dr. Kathryn Ranhorn

*Project title: Sedimentary Facies Analysis of Middle Stone Age
Locality GaJj17.* Passed research project with distinction, beginning
PhD studies in 2020

***Shannon Warren** (Undergraduate student from University of Kansas, USA)

*Project title: Mapping MSA deposits: Regional geological investigation
of upper Chari Member sediments in the Ileret region.* Passed
research project with distinction

**Students that have been accepted into graduate programs and/or presented at conferences as
undergraduates.*

RESEARCH EXPERIENCE

Fieldwork research

- 2026 - **NSF Kilwa Project, Tanzania**
Head sedimentologist and geomorphologist
- 2025 - **Cradle of Humankind, Sterkfontein Quarry, South Africa**
Head Geologist
- 2024 - **Integrated Basin Analysis, Eastern Cape, South Africa**
Field director
- 2024 - **South Luangwa Research Group, Zambia**
Head geologist
- 2020 - **International Summer School of Sedimentology - Dynamic Carbonate
Systems in Action, Eleuthera Island, Bahamas** (accepted) -
International Association of Sedimentologists. Ranked and selected as a
fellow
- 2019 **Palaeontological Impact Assessment Training - Therapsid Researchers'
Initiative for African Karoo Study Field School, South Africa**- Evolutionary
Studies Institute, University of the Witwatersrand. Research fellow and
instructor – geologist.
- 2016-2020 **Koobi Fora Research and Training Program, Kenya** - George Washington
University and National Museums of Kenya. Graduate research fellow -
Pleistocene geologist
- 2017 **Rising Star Winter Expedition, Cradle of Humankind, South Africa.**
Evolutionary Studies Institute, University of the Witwatersrand and National
Geographic Society. Graduate fellow - Intern geologist
- 2014 -2015 **Laetoli Palaeoecology Project, Tanzania** - National Research Foundation
of South Africa and Dar es Salaam Museum. Research Fellow - geologist
- 2014 **Elandsfontein Field School, South Africa** - Department of Archaeology,
University of Cape Town. Teaching Assistant
- 2013 **Koobi Fora Research and Training Program, Kenya** - George Washington
University and National Museums of Kenya. Student

Selected Published Abstracts

- 2024 Koski, K.L., Kelly, M., **Mavuso, S.**, Forrest, F., Braun, D.R., Ndiema, E.
Faunal community composition across varied palaeoenvironmental contexts.
American Association of Biological Anthropologists, Reno Nevada.
Kelly, M., Koski, K., S. **Mavuso, S.**, Braun, D.R., Alemseged., Z. *Enamel
stable oxygen isotopes reconstruct precipitation changes and depositional
environment variation in the Turkana Basin.*
- 2023 **Mavuso, S.**, Palcu, D., Pickering, R., Warren, S., Hammond, A., Kuo, S.,
Ndiema, E., Braun, D., Jinnah, Z. *Early Pleistocene habitat change at
Collection Area 13 in the northeastern Turkana Basin, Kenya.* GeoCongress,
Stellenbosch
- 2022 **Mavuso, S.** *Changing environments and evolution over time: Sequence*

- stratigraphy in modelling past environment for future. Crossing the Borders of Knowledge Postgraduate Conference, Rhodes University, Makhanda.*
- Mpangala, L, Kirsten, K, Haberzettl, T, Edwards, T **Mavuso, S.** Murungi, M, Pickering P. *Sedimentary facies analysis and palaeoenvironmental reconstruction of the Kalkkop palaeolake, Eastern Cape, South Africa. European Geosciences Union Conference - Vienna, Austria.*
- Ssebuyungo, C., **Mavuso, S.**, Colarossi, D., Dogandzic, T., O'Brien, K., Harris, J., David Braun, Emmanuel Ndiema and Ranhorn, K. *GaJj17: A Middle Stone Age site at Koobi Fora, East Turkana (Kenya).* East African Association for Palaeoanthropology and Palaeontology. Nairobi, Kenya.
- Mavuso, S.**, Palcu, D., Pickering, R.; Warren, S., Hammond, A., Kuo, S., Ndiema E., Braun, D.R. and Jinnah Z. *Early Pleistocene hominin habitat and change in the northeastern Turkana Basin, Kenya: sedimentary facies analysis and sequence stratigraphic modelling of the upper Burgi Member, Koobi Fora Formations.* Palaeo-Research Institute 5th Palaeo-TrACKS Symposium, University of Johannesburg, Johannesburg.
- Kirsten, K, Mpangala, L, Haberzettl, T, Edwards, T **Mavuso, S.** Murungi, M, Pickering P. *The Kalkkop Impact Crater, South Africa, an environmental archive for MIS 7 and beyond.* European Geosciences Union Conference, Vienna, Austria.
- Kirsten, K, Mpangala, L, Haberzettl, T, Edwards, T **Mavuso, S.** Murungi, M, Pickering P. *The Kalkkop A unique MIS 7 palaeoenvironmental record from the Kalkkop Impact Crater palaeolake, South Africa; preliminary interpretations of a 90 m sedimentary archive.* International Association of Limnogeology, Bariloche, Patagonia, Argentina.
- Mavuso, S.** *Changing environments and evolution over time: Sequence stratigraphy in modelling past environment for future projection.* Rhodes University. Crossing the Borders of Knowledge Postgraduate Conference, Makhanda.
- 2021 A.S. Hammond, S. Kuo, D.R. Braun, D. Palcu, **S.S. Mavuso.** *KNM-ER 2598: site context and new fossils.* 90th Annual Meeting of the American Association of Physical Anthropologists April 7-28, 2021
- 2020 Craig, C., **Mavuso, S.**, Hlubik, S., Warren, S., Khumalo, W., Braun, D., Ndiema, E. *The Chronostratigraphic and Depositional History of the FxJj20 Site Complex, Northern Kenya.* American Association of Physical Anthropologists (online platform)
- Hammond, A.S., Kuo, S., Braun, Palcu, D., **Mavuso, S.** *KNM-ER 2598: site context and new fossils.* American Association of Physical Anthropologists (online platform)
- 2019 Warren, S., **Mavuso, S.S.**, Murray, B., Colarossi, D., Dogandzic, T., Ssebuyungo, C., Harris, J., David Braun, Emmanuel Ndiema and Ranhorn, K.
- Middle Stone Age site preservation of gajj17: Structural and depositional history of the northeastern Turkana Basin.* Geological Society of America. Phoenix, Arizona.
- Mavuso, S.**, Jinnah, Z., Colarossi, D., Dogandzic, T., O'Brien, K., Harris, J., David Braun, Emmanuel Ndiema and Ranhorn, K.
- Middle Stone Age artefact-bearing deposits in the Koobi Fora Formation: a geological study.* East African Association for Palaeoanthropology and Palaeontology. Nairobi, Kenya.
- Ssebuyungo, C., **Mavuso, S.**, Colarossi, D., Dogandzic, T., O'Brien, K., Harris, J., David Braun, Emmanuel Ndiema and Ranhorn, K. *GaJj17: A Middle Stone Age site in Koobi Fora, East Turkana (Kenya).* East African Association for Palaeoanthropology and Palaeontology. Nairobi, Kenya
- Kelsey, B., **Mavuso, S.S.** Colarossi, D., Ssebuyungo, E. Ndiema, J. Harris, D. Braun and K. Ranhorn. *The lithostratigraphy of the Middle Stone Age in*

- the northeastern Turkana Basin*. Palaeoanthropology Society Annual Meeting. Albuquerque, New Mexico
- 2018 **Mavuso, S.S.** and Jinnah, Z. *The lithostratigraphy of Middle Stone Age artefact-bearing deposits in the Eastern Turkana Basin*. Centre of Excellence (Palaeosciences) Seminar lectures. Muldersdrift, South Africa
- 2017 Ssebuyungo, C., Dogandžić, T., Ranhorn, K.L., **Mavuso, S.S.**, Van Hagen, L., Ziegler, M.J., Warren, S.L., Harris, J.W.K. and Braun, D.R. Site formation processes at GaJ17 (East Turkana, Kenya). East African Association for Palaeoanthropology and Palaeontology. Addis Ababa, Ethiopia
- Mavuso, S.S.** and Stratford, D. *The siliciclastic deposits of Jacovec Cavern, Sterkfontein: Reconstructing depositional environments in karst systems*. Palaeoanthropology Society. Vancouver, Canada.
- Ranhorn, K. L., Dogandžić, T., **Mavuso, S.S.**, Ssebuyungo C, Van Hagen, L., Jirsa, C.E., Ziegler, M Warren, S and Harris, J.W.K. *GaJ17: an MSA lake shore site at East Turkana*. Palaeoanthropology Society. Vancouver, Canada.
- 2016 **Mavuso, S.S.**, Stratford, D., Maire, R., Bruxelles, L. *Deposits of the Jacovec Cavern, Sterkfontein: Sedimentological analyses for reconstructing depositional contexts of fossils*. Society of Africanist Archaeologists. Geoarchaeology in Africa. Toulouse, France
- Mavuso, S.S.**, Stratford, D. *The deposits of Jacovec Cavern, Sterkfontein: A high resolution application of sedimentological analyses for palaeoanthropological studies*. American Association of Physical Anthropologists. Atlanta, USA.
- 2015 **Mavuso, S.S.**, Stratford, D. *The deposits of Jacovec Cavern, Sterkfontein: A high resolution application of sedimentological analyses for palaeoanthropological studies*. American Association of Physical Anthropologists. Atlanta, USA. **Mavuso, S.S.**, Stratford, D., Maire, R., Bruxelles, L. *The deposits of Jacovec Cavern, Sterkfontein: A high resolution application of sedimentological analyses for palaeoanthropological studies* Franco-South African cooperation in archaeology. Pretoria, South Africa.
- Mavuso, S.S.** *The deposits of Jacovec Cavern, Sterkfontein: Petrography and Sedimentology*. Centre of Excellence (Palaeosciences) Steering Committee, Johannesburg, South Africa
- Mavuso, S.S.** *The deposits of Jacovec Cavern, Sterkfontein: Petrography and Sedimentology*. Centre of Excellence (Palaeosciences) Seminar lectures. Johannesburg, South Africa
- Mavuso, S.S.** *Yellow Marker Tuff, Laetoli: A geological study*. The African Quaternary. Cape Town, South Africa.
- 2014 **Mavuso, S.S.**, Day, M and Rubidge B. *A bio- and lithostratigraphic study of the Ecca-Beaufort contact in the Northern Karoo Basin*. Palaeontological Society of South Africa. Johannesburg, South Africa
- Mavuso, S.S.** *A bio- and lithostratigraphic study of the Ecca-Beaufort contact in the Northern Karoo Basin*. Centre of Excellence (Palaeosciences) Seminar lectures, Johannesburg

PUBLICATIONS

PEER REVIEWED BOOKS AND JOURNAL ARTICLES

- 2024 Warren, K., Hunter L., Naidoo, N., **Mavuso, S.S.**, Tommy, K.A., Moll, R.M. and Hlazo, N.
Chapter 9: Early Hominins. In Beth Shook, Katie Nelson, Kelsie Aguilera, and Lara Braff (eds) *Second edition. Explorations: An Open Invitation to Biological Anthropology*. Arlington, Virginia: American Anthropological Association. 2nd Edition.

- 2023 Ranhorn, K., **Mavuso, S.** Colarossi, D., Dogandzic, T., Obrien, K., Ribordy, M., Ssebuyungu, C., Warren, S., Harris, J., Braun, D and Ndiema, E.
By the lakeshore: multi-scalar geoarchaeology in the Turkana Basin at GaJ17, Koobi Fora (Kenya). Quaternary Science Reviews
- Warren, K., Hunter L., Naidoo, N., **Mavuso, S.S.**, Tommy, K.A., Moll, R.M. and Hlazo, N.
Chapter 9: Early Hominins. In Beth Shook, Katie Nelson, Kelsie Aguilera, and Lara Braff (eds) Second edition. Explorations: An Open Invitation to Biological Anthropology. Arlington, Virginia: American Anthropological Association.
- 2022 Makhubela, T.V., **Mavuso, S.S.**
Chapter 3: An Overview of the geology of palaeoanthropological and archaeological sites of South Africa. Stratigraphy and Timescales.
- 2021 Hammond, A.S., **Mavuso, S.S.**, Biernat, M., Braun, D,R., Jinnah, Z., Kuo, S., Melaku, S., Wemanya, S.N., Ndiema E., Patterson, D.P., Uno, K.T., and Palcu, D.V.
New context and hominin fossils from the KNM-ER 2598 locality in East Turkana, Kenya. Nature Communications.
- Submitted* **Mavuso, S.S.**, Jinnah, Z., Kuo, S., Hammond, A.S., Ndiema, E., Braun, D., Palcu, D., and Pickering, P.
Freshwater potamolepid sponge remains in Early Pleistocene littoral lake sediments from Koobi Fora, Kenya
- Submitted* **Mavuso, S.S.**, Khumalo, W., Pickering R. and Jinnah, Z.
Palaeoenvironmental variation in the hominid-bearing fluvio-lacustrine succession of the upper Burgi Member, northern Kenya.
The lithostratigraphy of the upper Koobi Fora Formation: mid-late Pleistocene depositional history of the northeastern Turkana Basin.
- Ranhorn, K., **Mavuso, S.S.**, Colarossi, D., Dogandzic, T., O'Brien, K., Harris, J. and Braun, D.
Late Pleistocene Human Occupation of Lake Turkana (Kenya).
- Submitted* **Mavuso, S.S.**, Craig C. and Hlubik, S.
The chronostratigraphy and depositional history of the FxJj20 Site Complex, Koobi Fora, northern Kenya.
- 2019 Warren, K., Hunter L., Naidoo, N., **Mavuso, S.S.**, Tommy, K.A., Moll, R.M. and Hlazo, N.
Chapter 9: Early Hominins. In Beth Shook, Katie Nelson, Kelsie Aguilera, and Lara Braff (eds). Explorations: An Open Invitation to Biological Anthropology. Arlington, Virginia: American Anthropological Association.
- 2018 Merritt, **S.**, **Mavuso, S.S.**, Cordiner, E., Fetchenhier, K. and Greiner, E.
Fwjj70 - A potential Early Stone Age single carcass butchery locality preserved in a fragmentary surface assemblage. Journal of Archaeological Science Reports

SCIENCE COMPETITION AWARDS

- 2019 Famelab Heat Finalist, 3rd place winner
2017 WITS Science Slam Competition (Science Communication), 1st place winner

LEADERSHIP POSITIONS AND INVOLVEMENT

- 2018 - 2020 **Chairperson**, School of Geosciences Postgraduate Student Council, University of the Witwatersrand
2017 - 2018 **Undergraduate Mentor** School of Geosciences, University of the Witwatersrand
2015 **Chairperson**, International House Residence Council, University of the Witwatersrand
Council Member (Portfolio Constitutions and Policies), All Residence

- 2014 Council, University of the Witwatersrand
Class Representative, School of Geosciences Honours Class, University of the Witwatersrand
- 2013 **Council Member (Marketing)**, University of Cape Town Choir
Class Representative, AGE3011F and GEO3005F, University of Cape Town
- 2012 **Committee Member (Social Chair)**, University of Cape Town Choir
Class Representative, GEO2001F and GEO2004S, University of Cape Town
Assistant conductor, University of Cape Town Choir

SCIENCE COMMUNICATION AND IMPACT

- 2020 **Cohost and Founder, Digging In Podcast**
Podcast on being black in Palaeosciences in Africa.
<https://soundcloud.com/user-788558003>
- Twitter and Instagram Take-over, Centre of Excellence in Palaeosciences)** *Showcasing my research in a week where I ran the science communication accounts.*
- Fellow, CommSciPaleo 2020**
Palaeoanthropology and Geology Science Communication Symposium at the Perot Museum in Dallas, Texas
- Contributor, 702 Radio: Who owns the 'African' narrative?"**
<https://omny.fm/shows/mid-morning-show-702/who-owns-the-african-narrative>
- Translator, Cradle of humankind board game**
Translate board game (based on snakes and ladders) for children (3-6 years) to learn about human origins and geology
- 2019 **Blog post contributor, Human Evolution Research Institute**
A safe space to research our origins <https://www.heriuct.co.za/news-content/a-safe-space-to-research-our-origins>
- 2018 -2020 **Content creator and auditor – Rising star cave virtual tour**
Co-organiser, Science and Career Expo at the Seotlong and Mphahlele
Exhibitor for the School of Geosciences for high school students in rural Limpopo, South Africa
- Contributor, American National History Museum Science Education Programme**
Exhibitor for the School of Geosciences for high school students in rural Limpopo, South Africa
- 2018 **Blog post contribution, Faces of fieldwork**
 “That ash tho”
<https://twitter.com/facesfieldwork/status/982320785493839873?s=20>
- 2017- **Account manager, Twitter and Facebook**
Create content, engage and post for @WitsGeos
- 2015 **Contributor, Conversation with the Minister of the Department of Science and Technology**
Television appearance speaking on South African research and government initiatives

DIVERSITY, EQUITY, AND INCLUSION RECORD

- 2020 **Co-facilitator, Race and Racism in Science: Bringing History into the Now, Jacana Webinar**
This webinar will review some of the stories of this difficult history of scientific racism, but it will also bring history into the present by drawing on my knowledge and experience in the field of human origins.
- 2020 **Founder Geosciences Safe Space Initiative, School of Geosciences, University of the Witwatersrand**
A reading and focus group in the School of Geosciences focusing on unpacking complex issues around transformation in South Africa in a post-colonial and post-apartheid space as well as difficulties bridging racial tension.
- 2019 **Speaker and workshop facilitator, Human Evolution Research Institute, University of Cape Town**
Talk title: Transformation and spaces: navigate your existence in STEM academic spaces when you're a sexual, gender and racial minority
- 2017 - **Faculty of Science Transformation committee, University of the Witwatersrand**
Student representative in consolidating and presenting transformation initiatives and issues for the faculty's departments.
- 2015-2016 **Policies and Constitution, All Residence Council**
Council member delegated to ensure residences at Wits university are upkeeping diversity and transformation legislation, follow council protocol as well as rules and regulations of the university

INVITED TALKS

- 2025 **New Generation Academics Programme (nGAP): Celebrating 10 Years of Growth and Impact**
Talk title: Reflections from the Journey: Transforming Challenges into Impact.
- 2023 **Rhodes University. Anthropology in the Making Seminar Series**
Talk title: Climate change driving human evolution in Turkana: Lessons from the past for the future.
- 2021 **Ditsong Museum Annual Robert Broom Memorial Lecture.**
Talk title: Palaeogeography and Stratigraphic Refinement of Fossiliferous Deposits in East Africa: Investigations from the upper Burgi Member of the Koobi Fora Formation.
- 2020 **Department of Anthropology, University of Connecticut**
Talk title: New geological approaches in refining the African Plio-Pleistocene: the sequence stratigraphy of the Koobi Fora Formation, northern Kenya
- 2020 **Institute of Human Origins, Arizona State University**
Talk title: Plio-Pleistocene hominin habitat occupation change through time: geological insights from the Koobi Fora Formation
- 2019 **Department of Geological Sciences, University of Cape Town**
Talk title: Pleistocene hominin occupation and development over time: Insights from the upper Koobi Fora Formation, Turkana Basin
- 2018 **Geology Department, University of Pretoria**
Talk title: Cenozoic Basins and Life: A case for the Turkana Basin
- 2017 **Center for the Advanced Study of Human Palaeobiology (CASHP), George Washington University**
Talk title: Understanding fossils in caves: the karst geology of the Cradle of Humankind, South Africa

PROFESSIONAL MEMBERSHIPS

Palaeontological Society of South Africa (PSSA)

Geological Society of South Africa (GSSA)

East African Association for Palaeoanthropology and American Association
of Physical Anthropologists (AAPA) Palaeoanthropology Society

Palaeontology (EAAPP) European Society for the Study of Human
Evolution (ESHE)

Geological Society of America (GSA)

REFERENCES

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(robyn.pickering@uct.ac.za) Tel: +27 21 650 2911

Dr Christine Steininger (Programme Director, GENUS and MSc Supervisor)

(christine.steininger@wits.ac.za) Tel: +27 (0)83 679 0686



We certify that

Silindokuhle Siyabonga Mavuso

was admitted to the degree of

Bachelor of Science

on 11 December 2013

majoring in Environmental & Geographical Science, Geology and Archaeology

Ex Officio Commissioner of Oaths (RSA)
ROMEO OFORI DANSO
General Tax Practitioner (Reg nr. 19491831)
City Centre Financial Accountants
23 Chapel Street, Central
PORT ELIZABETH 6001

Date: *2020-05-04*

Alan Price

Vice-Chancellor



Hugh Amoore

Registrar



UNIVERSITY OF THE WITWATERSRAND,
JOHANNESBURG

At a congregation of the University

held on 27 March 2015

Silindokuhle Siyabonga Mavuso

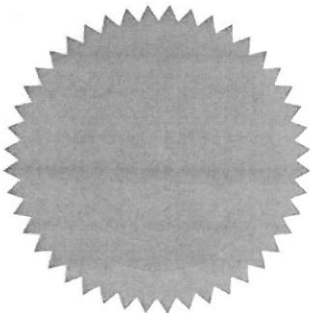
Ex Officio Commissioner of Oaths (RSA)
ROMEO OFORI DANSO
General Tax Practitioner (Reg. nr. 19491831)
City Centre Financial Accountants
23 Chapel Street, Central
PORT ELIZABETH 6001

was admitted to the Degree of

Bachelor of Science with Honours

Date: 27-03-2015

(Palaeontology and Geology)




Dean: Faculty of Science


Vice-Chancellor and Principal


Registrar



UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

At a congregation of the University
held on 04 July 2018

Silindokuhle Siyabonga Mavuso

was admitted to the Degree of

Master of Science

(Geology)

Ex Officio Commissioner of Oaths (RSA)

ROMEO OFORI DANSO

General Tax Practitioner (Reg nr: 19491831)

City Centre Financial Accountants

23 Chapel Street, Central

PORT ELIZABETH 6001

Date: *2018-05-24*

I hereby certify that this document is a true copy
of the original to which no visible alterations
have been effected

Kimberley CHAPELLE

Signed at *BRAK FOUNTAIN* on *14/08/2018*

SWORN TRANSLATOR
Kimberley CHAPELLE
TRADUCTRICE ASSERMENTÉE
Duly admitted by order of the
High Court of South Africa
Johannesburg - 2017/48620
Ex Officio Commissioner of Oaths

[Signature]
Dean: Faculty of Science

[Signature]
Vice-Chancellor and Principal

[Signature]
Registrar