CURRICULUM VITAE RINAE MAKHADI

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Cromwell Road, Navalsig

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Tertiary and professional education:

Qualifications

- BSc (Geology) University of the Free State (2012)
- BSc (Hons) (Geology) University of the Free State (2013)
- MEM (Master of Environmental Management) University of the Free State (2016-2019)
- BSc (Hons) (Geohydrology) University of the Free State (2019)

Awards

- 9th annual Inkaba yeAFRICA award for one of the best oral presentations, November,
- Centre for Environmental Management (UFS), recognition for mini-dissertation with distinction, June 2019
- Awarded the 2019 Khotatsa award from the centre of teaching and learning (UFS)

Work Experience:

Institution University of the Free State

Department Geology

Position held Student assistant 2011-2012

Duration

Key responsibilities

- Facilitated practical sessions
- Facilitated field excursions alongside lecturers
- Helped students with problems encountered during practical sessions
- Invigilated during semester and practical tests
- Marking of assignments and practical tests

Institution University of the Free State

Department Geology

Position held Junior lecturer – Lecturer

Duration 2014-*

Key responsibilities

 Lecturing of first year general geology and second year environmental geology students

- Prepare classes (theoretical and practical sessions)
- Prepare assessments such as semester tests and examinations
- Facilitate field schools to waste disposal facilities and water treatment plants
- Research

Skills and competencies:

- Contaminated site investigations (for projects on solid waste disposal facilities, groundwater contamination, acid mine drainage and untreated sewage waste).
- Sound knowledge and experience in relevant environmental legislations in South Africa (NEMA, NWA, MPRDA, NWMS, NEMAQA).

Community service:

- Free State provincial organiser: Minquiz National Science Competition (2016-2018).
- Representative of the Geology Department (UFS): Creative Minds Club for disadvantaged learners in the Free State Province (2019-*).

Publication record:

Dissertations

- 1. Makhadi, R. (2012). *Geochemical analysis of surface water quality in the Welkom area with special reference to impacts on the environment*. Unpublished honours dissertation, University of the Free State.
- 2. Makhadi, R. (2019). Assessment of groundwater quality in the vicinity of municipal solid waste landfill sites in Bloemfontein, South Africa. Unpublished master's dissertation, University of the Free State.

Submissions to peer-reviewed journals

- 1. Ololade, O.O., Mavimbela, S., Oke, S.A. and Makhadi, R. (2019). *Impact of leachate from northern landfill site in Bloemfontein on water and soil quality: Implications for water and food security.* Sustainability **11**(15) 4238; doi:10.3390/su11154238.
- 2. Makhadi, R., Oke, S. and Ololade, O. (2020). The influence of non-engineered municipal landfills on groundwater chemistry and quality in Bloemfontein, South Africa. Molecules **25**(23), 5599; doi.org/10.3390/molecules25235599.

Conference contributions

- 1. Makhadi, R., Tredoux, M. and Van der Merwe, J. (2012). *Geochemical analysis of surface water quality in the Welkom area with special reference to impacts on the environment*. 9th Annual Inkaba yeAFRICA Workshop, GFZ Potsdam, 26-30 November 2012.
- 2. Ololade, O.O., Mavimbela, S., Oke, S.A. and Makhadi, R. *Impact of leachate from northern landfill site in Bloemfontein on water and soil quality: Implications for water and food security*. 7th World Sustainability Forum, Beijing China, 19-21 September 2018.

Postgraduate supervision

- 1. Ngubeni, L. (2019) (BSc Hons) *The distribution of TDS concentrations in the pollution monitoring boreholes of the northern landfill site Bloemfontein, South Africa.*
- 2. Mokati, K. (2019) (BSc Hons) *The distribution of sulphate in the pollution monitoring boreholes of the northern landfill site Bloemfontein, South Africa*.
- 3. Mokoto, T. (2020) (BSc Hons) The impact of weathering of sulphides in mine waste environments- implications for waste characterization and mitigation. A case study from Kitumba copper mine, Zambia.
- 4. Matoyi, C. (2020) (BSc Hons) Environmental impacts of coal deposits and their implications for mining and waste management Witbank coalfields, South Africa.

Reference list

1. Name: Prof Bisrat Yibas

Company: University of the Free State – Geology Department

Relationship: Head of Department

Contact details: 051 401 3080 | YibasBabsoB@ufs.ac.za

2. Name: Prof F. Roelofse

Company: University of the Free State – Geology Department

Relationship: Former HOD

Contact details: 051 401 9001 | 084 406 7002 | roelofsef@ufs.ac.za

3. Name: Prof O. Ololade

Company: University of the Free State – Centre for Environmental Management

Relationship: M.sc supervisor and mentor

Contact Details: 051 401 3958 | 061 668 0858 | OloladeOO@ufs.ac.za

4. Name: Dr. S. Oke

Company: Central University of Technology Bloemfontein

Relationship: Mentor

Contact details: 061 118 4893 | soke@cut.ac.za