

MAPOSHOLI MOKHETHI

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EDUCATION

- B.Sc (Honours), University of Cape Town** 2017
- Major: Geology
 - Project title: The Early Jurassic Sotho Lake: Palaeo-climatic signals from the Upper Elliot Formation at Cana, Lesotho
- B.Sc, University of Cape Town** 2016
- Majors: Geology, Environmental & Geographical Science
- International Baccalaureate Diploma, Machabeng International College** 2013
- Higher level subjects: English (5), Chemistry (4), Geography (5)
 - Standard level subjects: Physics (5), Mathematics (5), Spanish (6)
- Cambridge General Certificate, St. Stephen's Diocesan High School** 2010

HONOURS AND AWARDS

- South African National Research Foundation (NRF) Free-standing Honours Scholarship, 2017
- NRF Centre of Excellence in Palaeosciences Grant, 2017
- Award of Academic Excellence, Woolsack Residence, 2016
- Dean's merit list, University of Cape Town, 2015

EXPERIENCE

- Intern Geologist, Umvoto Africa, South Africa** 08/2019 – PRESENT
- Undertaking on-site supervision of borehole drilling and test-pumping by contractors, including collection of samples and logging of geological and hydrogeological data
 - Collection of borehole water samples for water quality monitoring and engaging in borehole water level monitoring activities
 - Undertaking geological and hydrogeological data analysis, processing and interpretation as needed to meet project requirements
- Geoscience Volunteer, Ministry of Mines and Geology, Lesotho** 05/2019 – 08/2019
- Digitising geological maps of Lesotho using QGIS
 - Carrying out exploration and fieldwork activities, including sample collection and processing in various parts of Lesotho
 - Assisting candidates interested in pursuing diamond mining with relevant documentation for the acquisition of exploration and prospecting rights
 - Compiling reports on geological exploration activities
- Secretary, Western Cape Society of Economic Geologists-Society of Geology Applied to Mineral Deposits (WC SEG-SGA) Student Chapter, South Africa** 03/2017 – 11/2017
- Sitting on the committee that pioneered the first SEG-SGA student chapter in the Western Cape Province of South Africa
 - Co-writing funding proposals to the SEG and SGA, successfully securing \$1000 to support some of the chapter's 2017 activities
 - Liaising with mining industry professionals to give talks, run short courses and host mine visits

- Tutoring Science and English to grade 9 learners
 - Assisting with the development of monthly lesson plans
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SKILLS

Data collection and analysis:

- Collecting, processing and conducting geochemical analysis of rock samples for BSc research project
- Collecting of water samples for chemical analysis and borehole water levels for aquifer health monitoring

Research and report writing:

- Writing up a first class honours thesis and co-authoring scientific conference abstracts
- Conducting literature reviews and co-authoring project reports at Umvoto Africa

Communication:

- Presenting honours project in the Department of Geological Sciences at the University of Cape Town at an international scientific conference

Languages:

- English, Sesotho
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CONFERENCE PROCEEDINGS (* = Presenter)

- Bordy, E.M., Sciscio*, L., Haupt, T; Rampersadh, A., Mokhehi, M., Abrahams, M., Bunge, A. 2019. Organic-rich rhythmites in southern Gondwana: Early Jurassic proxies of lake processes and climate change. Keynote Talk. Abstract book of the 34th IAS meeting of Sedimentology, Rome, Italy, Sapienza University, 10-13 September 2019, pp. 1717 ISBN 978-88-944576-2-9
 - Rampersadh*, A, Mokhehi*, M, Bordy, E.M., Sciscio, L, Abrahams, M, Reid, M, Haupt, T. 2018. Dynamics of Early Jurassic lacustrine palaeo-ecosystem: sedimentology and ichnology of the uppermost Elliot Formation in Lesotho. in Bordy, EM (ed.) Proceedings of the 2nd International Conference of Continental Ichnology (ICCI 2017), Nuy Valley (Western Cape Winelands), 1-8 October 2017. *Palaeontologia africana* 52, p. 185 — ISSN 2410-4418 <https://hdl.handle.net/10539/24150>
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REFERENCES

- Dr. Emese Bordy – Senior Lecturer (Geology), University of Cape Town
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- Dr. Lara Sciscio – Postdoctoral Research Fellow (Geology), University of Johannesburg
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