



From South Africa

ABENATHI NQWENISO

BSC BIOCHEMISTRY(HONS) STUDENT

CONTACTS



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144 EXT 3 Phumlani, Makhanda,
6139, South Africa

ABOUT ME



A driven and curious Biochemistry Honours student with a solid foundation in molecular biology, drug discovery, and laboratory techniques. Proficient in data analysis, good laboratory practice, and collaborative research. Passionate about understanding the chemical basis of biological systems and applying computational approaches to address real-world health challenges. Currently seeking opportunities to contribute to interdisciplinary research in bioinformatics, with a strong interest in protein dynamics, disease mechanisms, and therapeutic development.

SOFT SKILLS



Critical thinking

Problem Solving

Detail orientated

Mentoring

Good Laboratory practice

THEORETICAL EXPERIENCE



MAR 2023

NOV 2023

COMPUTATIONAL CHEMISTRY RESEARCH INTERNSHIP

Rhodes University Chemistry Department | Grahamstown

- Involved in computational research internship targeting anti-Covid compounds, utilizing molecular docking, gliding, and ligand optimization to inhibit SARS-CoV-2 protease(6WUU) and mitigate virus replication. Research was under the supervision of Professor Kevin Lobb.

FEB 2024

MAR 2025

PRACTICAL DEMONSTRATOR: INTRODUCTION TO SCIENCE CONCEPTS AND METHODS

Rhodes University | Makhanda

- Delivered engaging scientific demonstrations to 72 first-year BSc Extended Studies students, enhancing their understanding of core scientific principles.
- Cultivated essential laboratory skills among students, focusing on measurement, analytical techniques, and the importance of accuracy and precision.
- Managed the accurate recording and reporting of student performance.

FEB 2023

NOV 2023

RESIDENT STUDENT ASSISTANT

Rhodes University Student Affairs Division | Grahamstown

- Supported House Warden in fostering a safe, inclusive, and supportive living environment for students.
- Engaged with residents to address their academic, personal, and social needs, ensuring a well-rounded support system.
- Acted as a liaison between students and the House Warden, effectively communicating residence policies and student concerns.
- Managed conflict resolution and administered appropriate disciplinary actions to maintain community standards.

Data collection and Analysis
SDS PAGE & Western Blotting
NMR/MS analysis
Spectroscopy
Ligand Docking
Molecular Modelling
Cell culture

LANGUAGES



English

IsiXhosa

REFERENCES



PROFESSOR ADRIENNE EDKINS
Rhodes University Biochemistry - Honors
Research Supervisor

Phone Number 072 095 8168
Email a.edkins@ru.ac.za

PROFESSOR KEVIN LOBB
Rhodes University Chemistry- Internship
Supervisor (Lecturer)

Email k.lobb@ru.ac.za

- Assisted with administrative duties, including room assignments, record-keeping, and conducting room inspections.

EDUCATION



2025 **BACHELOR OF SCIENCE(HONS)**
Rhodes University | MAKHANDA

- Relevant Modules: Drug Discovery, Research Methods, Mammalian Cell Culture, Fluorescent Techniques & Bioinformatics.
- Research Project: Investigating HOP and Cdc37 Cochaperones interaction in mammalian cancer cells.

2024 **BACHELOR OF SCIENCE**
Rhodes University | Makhanda

- Dual Major: Chemistry & Biochemistry
- Graduated with Distinction in Biochemistry

2019 **NATIONAL SENIOR CERTIFICATE**
Mary Waters High School | Makhanda

- Subjects: English Home Language, IsiXhosa FAL, Physical Sciences, Mathematics, Life Sciences, History and Life Orientation

LEADERSHIP EXPERIENCE



JAN 2020
DEC 2023 **MATHS AND PHYSICAL SCIENCE TUTOR**
Ikamva Youth | Grahamstown

Tutored +60 High School leaners with Mathematics and Science subjects, improving their pass rate by 50%.

JAN 2022
DEC 2022 **RES COMMUNIITY ENGAGEMENT AND ENVIRONMENTAL REP**
Rhodes University | Grahamstown

- Led impactful community engagement initiatives, directly benefiting 50 local participants and facilitating orientation sessions for over 40 first-year students.
- Successfully fostered partnerships between 87 university students and community stakeholders in the Makhanda area,

strengthening collaborative relationships and driving meaningful community development.

JAN 2023
DEC 2023

STUDENT LEADER(9/10 MENTORING)

*Rhodes University Community Engagement |
GRAHAMSTOWN*

- Led the Vice Chancellor's High School mentorship program for 50+ Matric learners, fostering a culture of academic excellence.