

Unathi Skosana

☎ (+27) 81-5624-802 | ✉ ukskosana@gmail.com | 🏠 www.unathi.tk | 📱 [Unathi-Skosana](#)

Msc. Theoretical Physics

Education

Stellenbosch University

MSc. Theoretical Physics

- Ongoing Msc. dissertation on photonics w/ applications to quantum computing
- Advisors : [Mark Tame](#), Gurthwin Bosman

Stellenbosch, South Africa

Jan. 2020 - Present

Stellenbosch University

Hons. Theoretical Physics (cum laude)

- Hons. dissertation on measurement-based quantum computing
- Advisors: [Mark Tame](#)

Stellenbosch, South Africa

Jan. 2019 - Nov. 2019

Stellenbosch University

Bsc. Theoretical Physics (cum laude)

- Bachelor degree in Theoretical Physics
- Recognized as one of the best students in the [department of physics](#).

Stellenbosch, South Africa

2016 - 2018

Sovetjheza

High School

- Emphasis on science
- Received multiple accolades for various achievements

Mpumalanaga, South Africa

2013 - 2015

Courses and conferences

Attended :

- [Quantum Africa V](#)
- [WitsQ Summer School](#)
- [Qiskit-camp-africa-19](#)

2019 - 2020

Research experience

Stellenbosch University

Masters project research on photonics

- Accepted onto a theoretical/experimental project on photonic quantum computing supervised by [Mark Tame](#)

Stellenbosch, South Africa

Jan. 2020 - Present

Stellenbosch University

Collaboration and research, department of physics

- During my undergraduate thesis.

Stellenbosch, South Africa

Jan. 2019 - Nov. 2019

Awards & Grants

Grants

Present	Masters Research Grant , National Research Foundation	<i>South Africa</i>
2017	Merit Bursary , Stellenbosch University	<i>South Africa</i>
2017	Undergraduate Fund , SKA Undergraduate Programme	<i>South Africa</i>

Awards

2019	Top 4 student , Department of physics, Stellenbosch University	<i>South Africa</i>
2019	1st place poster presentation , WitsQ summer school, Wits University	<i>South Africa</i>
2016	Member , Golden Key International Honor Society	<i>South Africa</i>

Skills

Languages	C, Python, Golang, JavaScript, Java, Bash, Nasm
Software	GNU/Linux, LaTeX, Vim, Git, Mathematica, Matlab

Coursework

Selected coursework from my first four years in university :

2016 - 2019

- Quantum Physics (4 courses)
- Electromagnetism (4 courses)
- Computational Physics (3 courses)
- Special relativity (2 courses)
- Statistical Physics (3 courses)
- Real/Complex Analysis (3 courses)
- Probability and Statistics (2 courses)
- Computer Science (3 courses)

References

Lecturer **Prof. Hans Eggers**, eggerts@sun.ac.za
Advisor **Prof. Mark Tame**, mstame@sun.ac.za

Stellenbosch University
Stellenbosch University