

# Unathi Skosana

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Msc. Theoretical Physics

## Education

### Stellenbosch University

MSc. Theoretical Physics

- Ongoing Msc. dissertation on photonic quantum computing
- Advisors : [Mark Tame](#)

*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	<b>Masters Research Grant, <a href="#">National Research Foundation</a></b>	<i>South Africa</i>
2017	<b><a href="#">Merit Bursary</a></b> , Stellenbosch University	<i>South Africa</i>
2017	<b>Undergraduate Fund, <a href="#">SKA Undergraduate Programme</a></b>	<i>South Africa</i>

### Awards

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

## Skills

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

## Coursework

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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 )

## References

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Lecturer     **Prof. Hans Eggers**, [eggerts@sun.ac.za](mailto:eggerts@sun.ac.za)  
Advisor     **Prof. Mark Tame**, [mstame@sun.ac.za](mailto:mstame@sun.ac.za)

*Stellenbosch University*  
*Stellenbosch University*