

Unathi Koketso Skosana

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[Website](#)

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WORK

Intern Research intern, IBM Research Africa, 2022-

EDUCATION

PhD Quantum computing applications and optics, Stellenbosch University, 2022-

MSc. Quantum computing applications and optics (*cum laude*) [link](#), Stellenbosch University, 2020-2022

Hons. Theoretical Physics (*cum laude*), Stellenbosch University, 2019

BSc. Theoretical Physics (*cum laude*), Stellenbosch University, 2016-2018

PREPRINTS N' PUBLICATIONS

2021 Unathi Skosana and Mark Tame “Demonstration of Shor’s factoring algorithm for $N = 21$ on IBM quantum processors”. In: *Sci Rep* (Aug 2021). DOI: [10.1038/10.1038/s41598-021-95973-w](https://doi.org/10.1038/s41598-021-95973-w). arXiv: [2013.13855](https://arxiv.org/abs/2013.13855) [[quant-ph](#)]

2021 Unathi Skosana and Mark Tame “On the advantages of relative Toffoli gates”. Submitted to *SAIP2021* conference [7011.3773](#)

TALKS N' POSTERS

2021 “On the advantages of relative phase Toffolis” SAIP2021. 28 July

2019 “Modeling of Measurement-based Quantum Computing on IBM Q Experience Devices” Quantum Africa V conference. 5 Sept

2019 “Modeling of Measurement-based Quantum Computing on IBM Q Experience Devices” WitsQ Summer School. 10 Dec

GRANTS N' RECOGNITION

2022 [Qiskit Advocate](#), Qiskit

2020- Masters Research Grant, CSIR

2020 Recognized as a undergraduate top achiever by the physics department at Stellenbosch University

- 2019 Merit Bursary, Stellenbosch University
2018 Undergraduate Fund, SKA Undergraduate Programme

SELECTED PROJECTS

- 2021 [Hyperentangled-photons-masters-experiment](#)

SERVICE

- 2018- Teaching assistant for physics 114/144 at Stellenbosch University