



JEAN-PIERRE VAN ZYL

PHD CANDIDATE

PROFILE

I am a driven and hard-working student, currently studying in the field of Artificial Intelligence under the supervision of Professor A.P. Engelbrecht. My interest in this field stems from my desire to understand and to gain knowledge, and from the great potential it has to positivity impact our society in the information age. With my own life grounded in respect and integrity, I hope to make an impact in whichever environment I find myself.

CONTACT

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EXPERIENCE

Student leadership

Served on university residence House Committee, as Primarius and Vice-Primarius.

Served as Vice-Chair of the US Consulting Society

Scholarships

Standard Bank 150, NRF, BMW ITHub scholarships

Research Publications

"Polynomial Approximation Using Set-Based Particle Swarm Optimization" - ICSI '21

"Rule Induction Using Set-Based Particle Swarm Optimisation" - WCCI '22

"Set-Based Particle Swarm Optimisation: A Review", Mathematics MDPI

CHARACTER REFERENCES

Prof Engelbrecht

engel@sun.ac.za

Thomas Schlebusch

tom@nmrql.com

Richard Barry

richard@polymorph.co.za

Prof Kraak

kjw@sun.ac.za

CAREER SUMMARY

University Tutor

Stellenbosch University | Jul '23 - Aug '23

- Guest lecturer for MEng Data Analytics

University Tutor

Stellenbosch University | Jul '21 - Jul '23

- University appointed tutor for Data Analytics and Machine Learning

Part-time Developer

Merlynn Intelligence Technologies | Mar '21 - Aug '21

- Expanded Merlynn's system capabilities by implementing new CI algorithms.

Internship

Polymorph Systems | Jan '21 - Feb '21

- As a part of the R&D team we focused on expanding the company's existing IoT solution package to include Computer Vision at the edge.

Internship

NMRQL Research | Nov '20 - Dec '20

- Assisted in expanding the capabilities of the trading system used by NMRQL

EDUCATIONAL SUMMARY

Stellenbosch University

PhD in Computer Science

- Currently studying under Prof A.P. Engelbrecht in Automated Machine Learning and Quantum-Inspired Optimisation

Stellenbosch University

Master of Science in Computer Science

- 2021-2022, Cum Laude

Stellenbosch University

Bachelor of Science (Honours) in Computer Science

- 2020-2020, Cum Laude

Stellenbosch University

Bachelor of Science in Mathematical Sciences

- 2017-2019

- Completed a BSc from the Mathematical Sciences department with a main stream in Computer Science

Fairmont High School

National Senior Certificate

- 2012-2016

- Obtained with an average of 86.4% over 8 subjects