

CURRICULUM VITAE FOR TANYA MEYER



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PERSONAL DETAILS

EMAIL ADDRESS tanya.meyer@icloud.com
CELL NUMBER 082 888 8895
DATE OF BIRTH 24-02-1997 (25 years old)
GENDER Female
LANGUAGES English, Afrikaans, Dutch

EDUCATION

INSTITUTION Stellenbosch University (SU)
CURRENT DEGREE MEng. Chemical Engineering



POSTGRADUATE YEARS

ACADEMIC ACHIEVEMENTS		2021-2022 1 st Year Master of Engineering (Chemical) Anglo American Platinum Masters Bursary Candidate
		2021 Selected Candidate for Launch Lab's 6-week Techpreneurship International Conference for Undergraduate Research: SU representative
ACADEMIC INVOLVEMENT		2021 Data Science & Machine Learning research group Postgraduate Student Council: Transformation portfolio coordinator Monthly Postgrad Bulletin editor Student assistant for laboratory practical module (3 rd year level) Member of Departmental Transformation Committee
OTHER INVOLVEMENT		2021-2022 Tanya's Tutoring Business 2021 IsiXhosa Short Course 2021 Versus Socks part-time shop assistant 2017-2022 Chemical Engineering Summary Notes Business

WHERE I AM GOING



Currently, I am working on upskilling myself to align with the trajectory of Industry 4.0. I have developed a keen interest for **modelling, data science & machine learning** and am steering my career in this direction. I feel that a successful engineer is one who strives toward being well-versed in the budding ideas of the time. My **Masters project** is one such idea, *Optimality Assessment Analysis and Non-Optimality Identification for Multimodal Process Operations*. My Masters is research-focused, MATLAB-based, compares three dimensionality reduction techniques, and is sponsored by Anglo Platinum's Process Control division.









In 2021 I spent my after-hours leading the Transformation Portfolio of the department's Postgraduate Committee and served as editor of the Postgraduate Monthly Bulletin. We primarily organized postgraduate get-togethers that sparked much-needed conversations amongst young researchers and engineers within the South African context. Apart from my departmental involvement, I recently started my own Tutoring business for primary and high school kids in an attempt to transfer my passion for science and maths whilst generating an income to sustain my Masters studies.

REFERENCES

<p>Prof Robbie Pott <i>Honours Project Supervisor</i> Stellenbosch University Postgrad Coordinator Department of Chemical Engineering ✉ rpott@sun.ac.za ☎ +27 21 808 2064</p>	<p>Prof Tobi Louw <i>Masters Supervisor</i> Stellenbosch University Undergrad Coordinator Department of Chemical Engineering ✉ tmlouw@sun.ac.za ☎ +27 21 808 4051</p>
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UNDERGRADUATE YEARS

<p>ACADEMIC ACHIEVEMENTS</p> 	<p>2017 - 2020 Bachelor of Chemical Engineering at Stellenbosch University (SU)</p> <p>2020 Overall Aggregate of 73%</p> <p>Chairman's Award for noteworthy contribution by final year student</p> <p>Jac van der Merwe Innovation Competition Finalist Nominee</p> <p>Golden Key International Society Member (top 15% of degree)</p> <p>Glencore Alloys Bursary Student</p>
<p>WORK EXPERIENCE</p> 	<p>2017-2019 Mineral Processing Industry</p> <p>2019 Glencore Chrome Mine Vacation Work (5 weeks)</p> <ul style="list-style-type: none"> • Optimisation of Reflux Classifier Unit Project <p>2018/2019 Glencore Chrome Mine Vacation Work (5 weeks)</p> <ul style="list-style-type: none"> • Plant Inventory Imbalance + Flow Instrumentation Project • Chrome Chemical Analysis Discrepancy Project <p>2017/2018 Glencore Chrome Mine Vacation Work (6 weeks)</p> <ul style="list-style-type: none"> • Chrome Moisture Analysis Discrepancy Project
<p>ACADEMIC INVOLVEMENT</p> 	<p>2018 - 2020 BEng Class Representative (all modules)</p> <p>Participant in UK-US-SA Undergraduate Study for STEM majors</p> <p>2016 First Year of BSc. Molecular Biology & Biotechnology at SU</p> <p>BSc Class Representative (3 modules)</p>
<p>OTHER INVOLVEMENT</p> 	<p>2016-2019 One Second Everyday YouTube Project</p> <p>2016-2017 Societies: Mountain & Rock Climbing, Organic Vegetable Farming</p> <p>2017 Organiser of Stellenbosch Car Rally, First Aid Level 1</p> <p>2016 Editor of the Science Second BSc Newsletter, 1st Years Committee</p>
<p>SPORT INVOLVEMENT</p> 	<p>2019 Stellenbosch Cycle Tour (102 km)</p> <p>2018 Karoo2Coast Mountain Bike Challenge (100 km)</p> <p>2018, 2019 Cape Town Cycle Tour (107 km) & Xterra Off-Road Triathlon</p> <p>2017, 2018 Gun Run Half Marathon (21 km)</p> <p>2016, 2017 Squash and Hockey Team (Metanoia Residence)</p> <p>2016 Nominee for Sportswoman of the Year (Metanoia Residence)</p>
<p>TRAVEL</p> 	<p>2019/2020 Chile & Brazil (4-week backpacking)</p> <p>2018 Indonesia (5-week tandem backpacking)</p> <p>2016/2017 Japan (8-week solo backpacking and WorkAway volunteer)</p> <p>2015/2016 Nepal (3-week family trip)</p>

EXPERTISE








My BEng. Chemical degree established a wide range of **foundational** knowledge areas that are crucial to my career as a budding process/chemical engineer. Our 3rd year modules focused on building highly **technical** details associated with various aspects of chemical and mineral processing industries. This detailed understanding of the small-scale science facilitates the application to an industrial **large-scale**. Design, the pinnacle of our undergraduate honour's year, pieced together the stages of **plant design** with a case study of a Copper Extraction plant.



My honours project in bioprocess engineering awakened the **researcher within**. The project developed a *MATLAB program that facilitates biogas adsorption column design for rural communities*. This project was driven by my **passion to make an impact** with engineering. I was honoured to see my project nominated for the Jac van der Merwe Innovation Award and be chosen to represent SU at the International Conference for Undergraduate Research.

HIGH SCHOOL YEARS

INSTITUTION	Northcliff High School
ACADEMIC ACHIEVEMENTS	National Senior Certificate: 8 Distinctions
	Grade 8-12 Academic Bursary
	Grade 8-12 Aggregate above 85%
	Grade 12 3 rd position at 88%
	Grade 12 Top student: Mathematics (90%), Geography (92%), AP Mathematics (84%), Physical Sciences (88%)
	Grade 11 WITS Top 100 Award
LEADERSHIP	Final Year Prefect
	Apple in Education iPad ambassador
	Allan Gray Orbis Foundation selection camp
	Northcliff Rotary Community Club: president & founder
	Generation Earth Club: president & co-founder
	Rotary RYLA selected leadership camp
ENTREPRENEURIAL ACTIVITIES	Teen Guide to School iPad Use author: aired on SABC3, RSG, KykNet
	Africa's first Little Free Library: interviewed for Northcliff Melville Times, The Star and Die Beeld Newspapers
SPORTING ACTIVITIES	1 st Team for tennis, hockey, squash
	Provincial tennis and hockey
TRAVEL	2014/2015 The Netherlands (6-week Rotary exchange)
	2012/2013 Czech Republic (3-week family trip)