




CV


V.R. Kildaire



Name Vaughan Royce Kildaire

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Tutoring enquires: lola.nervs@gmail.com

Date of Birth 18 – Jun (6) – 1995

Nationality South African, Portuguese

Citizenship(s) Portugal | República Portuguesa, South Africa | Republic of South Africa (RSA).

Website  <https://vaughankildaire.github.io/>
independent.academia.edu/VaughanKildaire

Religion Roman Catholic
(Will not work on Christmas or Easter, Non-Negotiable, But Occasional Sundays is Negotiable).

Education

BSc Degree in Physics and Chemistry, Cum Laude:
UNISA. (2024)

Degree in Animation:
Atlantic International University.

Highschool:
Bridge House.



Skills & Experience

Educator:
Tutoring in math, physics and chemistry. +5 years

Programing:
Python and C++ experience and study for personal, academic, and other applied usage projects.

Arts:
3D Animation. Minor experience in Voice acting. Instruments; guitar and bass. Painting; oil on canvas and digital (photoshop).

Lab Assistant:
Capable lab assistant for setting up apparatus and glassware, titration, A/B extraction etc.
Familiar with the general chemistry laboratory environment.



Experience

Tutoring

I have worked as a **private and part time employed tutor since 2020**. If I could, I would Teach at a formal institute, as I really enjoy teaching as much as I enjoy learning. Subjects I Teach include: University; **mathematics, physics and chemistry**, and Highschool; math and physical science. This includes letters of reference from past clients.

lab work

I have Laboratory Experience In may synthesis and procedures; e.g., in saponification, nitrating, synthesis of aspirin and extraction of caffeine from tea. I have Also **Funded and conducted my own experiments and synthesis**, for the following:

1. **solvated electrons experiment and condensation of ammonia**
2. teaching titrations to students
3. **Nitrating of cellulose, to make nitrocellulose**
4. saponification to make soap



Education

BSc Physics & Chemistry,
Unisa (2024)

Bachelors
of
science
Cum Laude

Completed my **Bachelors of science Degree, Cum Laude**.

BSc Physics and Chemistry (98801), at UNISA in 2024

This is my *second undergrad Degree Completed*.

Personal Project
&
Chemistry Laboratory
Experience,

from self-employment,
and from
UNISA lab (Academia).

Experienced in **python programing** language and applied applications, both from training and self-project research. Learnt how to implement **RSA encryption via C++**, and also finally successfully funded and accomplished personal project experiment of: **Solvated electrons of lithium metal in liquid ammonia!**

Chemistry and general Science Lab Experience:

TLC, NMR, IR +UV-vis spectroscopy, Extraction of caffeine, formation and crystallization of iodine, synthesis of pharmaceutical complex, many inorganic cobalt complexes, soap, synthesis of nitrocellulose, ammonium nitrate crystallization, Chen-Kao organic complex, Solvated electrons, standard titrations, potentiometric titrations, Volhard back titrations, copper electroplating, determination of eutectic point and azeotropic point of liquid and solid (organic and metal) substances, and *many more*.

Amended matric

Amended matric, physical science and mathematics.
ca. Apr. 2019 – Jul. 2020

BA Animation & Game Design, AIU (2019)	First Degree completed, Degree in animation and gaming (complete), Atlantic International University 2019. (Credits transferred from 2 years of Animation Diploma)
Bachelors of Arts	Self-Study in math and C++ programming for game development.
High school matric	High school matric, Bridge House. Franschhoek, 7690, South Africa ca. Dec. 2013



Skills

Tutoring	Tutoring in math physics and chemistry. Private, and also through employer, in person and online.
Programing	C/C++ and Python.
Arts	Guitar, bass, and both oil and digital painting. 3D Animation. Voice acting.
Laboratory Scientist	<p>Capable lab assistant for setting up</p> <ol style="list-style-type: none"> 1. apparatus and glassware, 2. titration, 3. A/B extraction, 4. solvent separation, 5. filtration via pump or gravity and 6. preparing solutions of required concentration. <p>General knowledge of lab safety, equipment and reagents used in spills or emergencies. General knowledge of common apparatus and glassware usage. I own a small-scale personal lab, and along with my formal lab training from practical work, I am familiar with the general chemistry laboratory environment.</p>

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Languages

English	Home language (Totally fluent)
Português	good (fluent)
Afrikaans	good

Solvate
Electro

Using liquid Amm
and Lithium me



Year	Month	Code	Name of Study Unit	%	Comment	NQF level	NQF crds
2021	OCT	CHE150-1	General Chemistry IA	87	Passed with Distinction	5	12
2021	OCT	CHE150-2	General Chemistry IB	96	Passed with Distinction	5	12
2021	OCT	CHE150-3	General Chemistry I (Practical)	76	Passed with Distinction	5	12
2021	OCT	MAT150-3	Linear Algebra I	93	Passed with Distinction	5	12
2021	OCT	MAT151-2	Calculus A	98	Passed with Distinction	5	12
2021	OCT	PHY150-3	Physics Practical Work I	87	Passed with Distinction	5	12
2021	OCT	PHY150-5	Mechanics (Physics)	89	Passed with Distinction	5	12
2021	OCT	PHY150-6	Electromagnetism and Heat (Fisika)	90	Passed with Distinction	5	12
2021	OCT	PLS260-7	Philosophy of Science	68	Passed	6	12
2022	OCT	APM261-1	Differential Equations		Supplementary Examination	6	
2023	FEB	APM261-1	Differential Equations	51	Passed	6	12
2022	OCT	CHE261-1	Inorganic Chemistry II (Theory)	67	Passed	6	8
2022	OCT	CHE261-3	Organic Chemistry II (Theory)	66	Passed	6	8
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	64	Passed	6	4
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	81	Passed with Distinction	6	4
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	87	Passed with Distinction	6	12
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	83	Passed with Distinction	6	12
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	85	Passed with Distinction	6	12
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	90	Passed with Distinction	6	12
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	61	Passed	6	12
2022	OCT	CHE261-3	Organic Chemistry II (Practical)	72	Passed	6	12
2023	OCT	CHE261-2	Physical Chemistry II (Theory)	36	Supplementary Exam	6	
2024	OCT	CHE261-2	Physical Chemistry II (Theory)	76	Passed with Distinction	6	8
2023	OCT	CHE261-4	Analytical Chemistry II (Theory)	67	Passed	6	8
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	80	Passed with Distinction	6	4
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	85	Passed with Distinction	6	4
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	71	Passed	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	62	Passed	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	78	Passed with Distinction	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	80	Passed with Distinction	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	28	Supplementary Exam	7	
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	80	Passed with Distinction	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	84	Passed with Distinction	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	92	Passed with Distinction	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	69	Passed	7	12
2023	OCT	CHE261-4	Analytical Chemistry II (Practical)	64	Passed	7	12

not bad





UNISA
UNIVERSITY OF SOUTH AFRICA



We certify that

VAUGHAN ROYCE KILDAIRE

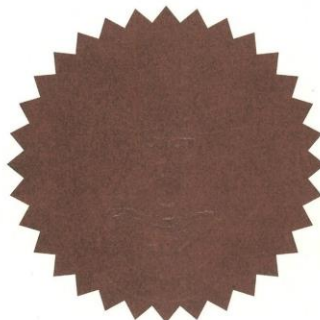
*having complied with the requirements of the Higher Education Act
and the Institutional Statute, was admitted to the degree of*

BACHELOR OF SCIENCE

*at a congregation of the University
on 7 June 2025
CUM LAUDE*

Vice Chancellor

University Registrar



Executive Dean

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