




CV


V.R. Kildaire



Name Vaughan Royce Kildaire

Address 44 Drommedaris Crescent, Van Riebeeck Park, Worcester, 6850, South Africa.

Phone  **cell phone:**
(+27)72 954 3891
Landline(home):
0233474873

Email  **Work:**
v.r.kildairework@gmail.com
Personal:
mcvaughan.kildaire@gmail.com
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, Easter or Sundays. Non-Negotiable)

Education

Highschool:
Bridge House.

BSc Degree in Physics and Chemistry:
UNISA. **(2024)**

Degree in Animation:
Atlantic International University.



Skills & Experience

Educator:
Tutoring in math, physics and chemistry.

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 include: University; **mathematics, physics and chemistry**, and Highschool; mathematics and physical science (physics, chemistry, etc.) This includes letters of reference from past clients.

lab work

I have Experience acquired through self-employment in saponification, nitrating, synthesis of aspirin and extraction of caffeine from tea. However, **I Do Have Laboratory Experience** from practical work in my studies, as well as working on my own chemistry projects with my own apparatus and reagents.

I have **Also Funded my own experiments, equipment and reagents**: solvated electrons experiment and when teaching students titrations.



Education

This History section is important, It is university and post-uni.

oct. 2024 – Jan. 2025
(present)

Learnt about **PGP encryption**, repair the family household, looking for the right Job/ any work, and continued my tutoring job. I began working with crypto, 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!**

Feb. 2021 – oct. 2024

Completed my Fourth (Final) Year of my **second undergrad, Degree Physics and Chemistry** (98801), at UNISA in 2024 now **Degree is complete** and I am only Awaiting Graduating Ceremony in 2025.

Experienced in **python programing** language and applied applications, both from training and self-project research.

Chemistry Experiments;

1. Extraction of caffeine,
2. the formation and crystallization of iodine,
3. synthesis of pharmaceutical complex,
4. many inorganic cobalt complexes,
5. soap,
6. and *many* more.

Jul. 2020 – Jan. 2021	Enrollment Bachelor of Science Degree in Physics and Chemistry (98801), UNISA. Tutor at Teach me 2, as well as Privat tutor . Personal chemistry projects (e.g., synthesis of nitrocellulose , ammonium nitrate crystallization, Chen-Kao organic complex)
	This History section is Not important , It is like high school and so on.
Apr. 2019 – Jul. 2020	Amended matric , physical science and mathematics. Personal chemistry projects (e.g., synthesis of soap, TATP and nitric acid)
Sep. 2017 – Apr. 2019	Degree in animation and gaming (complete), Atlantic International University (Credits transferred from 2 years of Animation Diploma). Self-Study in math and C++ programming for game development.
Oct. 2016 – Sep. 2017	Self-Study in math and C++ programming for game development.
Nov. 2015 – Oct. 2016	Year 3 of animation (incomplete), withdrawal due to mental health issues at the time.
Dec. 2013 – Nov. 2015	Diploma Animation 2 of 3 years; The Animation School
Dec. 2013	High school matric, Bridge House. Franschoek, 7690, South Africa



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>Cleaning glassware and preparation of strong cleaning agent (e.g., piranha solution) if need be. General knowledge of lab safety, equipment and reagents used in spills or emergencies.</p>

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.

A あ

Languages

English
 Português
 Afrikaans

Home language (Totally fluent)
 good (semi fluent)
 good



Example of Academic Results

as of 21-Feb(02)-2025

First - Fourth(Final) Year of 2nd degree: BSc. Phys et chem.
Including both Required and Additional, past and present subjects

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	CHE262-1	Inorganic Chemistry II (Practical)	64	Passed	6	4
2022	OCT	CHE262-3	Organic Chemistry II (Practical)	81	Passed with Distinction	6	4
2022	OCT	MAT161-3	Calculus B	87	Passed with Distinction	6	12
2022	OCT	MAT261-1	Linear Algebra 2	83	Passed with Distinction	6	12
2022	OCT	PHY160-4	Modern Physics	85	Passed with Distinction	6	12
2022	OCT	PHY260-1	Classical Mechanics	90	Passed with Distinction	6	12
2022	OCT	PHY260-2	Electricity and Magnetism (Physics)	61	Passed	6	12
2022	OCT	PHY260-6	Waves (Physics)	72	Passed	6	12
2023	OCT	CHE261-2	Physical Chemistry II (Theory)	36	Supplementary Exam	6	
2024	FEB	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	CHE262-2	Physical Chemistry II (Practical)	80	Passed with Distinction	6	4
2023	OCT	CHE262-4	Analytical Chemistry II (Practical)	85	Passed with Distinction	6	4
2023	OCT	CHE370-1	Inorganic Chemistry III	71	Passed	7	12
2023	OCT	CHE370-3	Organic Chemistry III	62	Passed	7	12
2023	OCT	PHY370-2	Quantum Physics	78	Passed with Distinction	7	12
2023	OCT	PHY370-3	Statistical and Thermal Physics	80	Passed with Distinction	7	12
2023	OCT	PHY370-7	Solid State Physics	28	Supplementary Exam	7	
2024	FEB	PHY370-7	Solid State Physics	80	Passed with Distinction	7	12
2023	OCT	PHY370-8	Atomic and Nuclear Physics	84	Passed with Distinction	7	12
2023	OCT	PHY370-9	Computational Modeling	92	Passed with Distinction	7	12
2024	OCT	CHE370-2	Physical Chemistry III	69	Passed	7	12
2024	OCT	CHE370-4	Analytical Chemistry III	64	Passed	7	12

... TO BE CONTINUED ON NEXT PAGE							

Please note that PHY2604 is an *additional* model, taken purely for enrichment, above and beyond what is required

BSc Degree COMPLETE (2024) : BSc. Phys et chem.

SRSRG11H

2025-02-16 14:51PM 3

Student number : 1364-175-1

Year	Month	Code	Name of Study Unit	%	Comment	NQF level	NQF crds
2024	OCT	CHE372-1	Inorganic Chemistry III (Practical)	70	Passed	7	3
2024	OCT	CHE372-2	Physical Chemistry III (Practical)	90	Passed with Distinction	7	3
2024	OCT	CHE372-3	Organic Chemistry III (Practical)	83	Passed with Distinction	7	3
2024	OCT	CHE372-4	Analytical Chemistry III (Practical)	85	Passed with Distinction	7	3

Total number of NQF credits accumulated: 360

Each credit equates 10 notional hours.

The above qualification has been completed with distinction.

Major subject(s):

CHEMISTRY

PHYSICS

The student is currently registered for the 2025 academic year for :

APM370-1 Partial Differential Equations

7 12

MAT261-3 Real Analysis I

6 12

Extra Subjects

2022	OCT	MAT261-5	Calculus in Higher Dimensions	64	Passed	6	12
2023	OCT	PHY260-4	Physics Practical Work II	68	Credit: another program	6	12
2024	OCT	APM371-3	Special Relativity and Riemannian Geometry	90	Passed with Distinction	7	12

The student is currently registered for the 2025 academic year for :

APM370-1 Partial Differential Equations

6 12

MAT261-3 Real Analysis I

6 12

Yours faithfully


Prof MM Sepota
Acting Registrar

Please note that MAT2615 and APM3713 are *additional* modules, taken purely for enrichment, above and beyond what is required.



Vaughan R. Kildaire (BSc Physics and Chemistry, BA Animation and Game design.)
<v.r.kildairework@gmail.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----

```
mQGNBGeSJwYBDACHGnU+loUEX+di1hjwkBi1xz5m1lX3K/d5XOPOA7G4g+UOheif
Azd3Sy+95Yn5XcyoU3y+QegXIHvw9hV1hf3w1Mf4R/b6CItCUYb5LP3edvwpghKz
kX0o9hD4cqZnWdvmqvQkBQ3Cy1JQ1vPIqt9ogW53aCO/l0RPE2mbD/SWOG+4z0CL
13g3DydEyo6newvvgGLM0S4/atfJAYwiLxOpM/vbTymXuWxnHKdsY7pb1sVMbBFn
UN8zeMTXBMhP2jWtCbTvjc7z/pxtmqd/AmWiL+/Tre2rEotzktD6kqe0of3xNUlu
EB/KrUPKAKw9NLwbUdVdZYgCZbi5DVTUPcKBMh120UjhArgm3WtSmvWpjpZu9Dmr
v3JAMnLkK6SGIAXOIlgWpSMT80WhBFu+9zMNC4TFHvXrB062Gj07zQcRb7zzGJjf
PUR9q+unh+hIUzviCQBthpKXLm453uk1paE56auP7EU7qGQ/JBhj4Fs74ToMvQhb
I4HUXko5Ti1Li+MAEQEAAbRrVmF1Z2hhbiBSLiBLawXkYWlyZSAoQ1NjIFBoeXNp
Y3MgYW5kIENoZW1pc3RyeSwgQkEgQW5pbWw0aW9uIGFuZCBHYW1lIGRlc2lnbi4p
IDx2LnIua2lsZGFpcmlV3b3JrQGdtYWlsLmNvbT6JAdEEeWEIADSWIQTw4n6jOUTj
t/tqZjhTLwnwa/qt9wUCZ5InBgIbAwULCQgHAgIiAgYVCgkICwIEFgIDAQIEBwIX
gAAKCRBTLwnwa/qt9wwtC/9ThZytjGFMmG2sYfUPAyAh3Lj4r+SrcZDFR0Px66nV
+V087w0UTNwf3W4Z5KZiS5+XCmKPYk5jSr80X84P/9g3YW3N2nDA40e1aE13Q/Is
Bs+a9Q7hq9uQNjd38smpHwHtYDnMoXtLqkYULsbahndRpKPQOgp8ZOK4W8Rv0mPC
/+e7+0xG4u3tDhGQ2o13hk1tWLK/tTs7tmuEGzzJyaW00r2gCI6Ildck7zEW/kWZ
kMW4/k6dJIiVrNet0DOVuGhZr5kp4cc4/DVMAA+n2YZgfh10FUuIMUVdDjQlfkjt
OVQxfxfI7CPEuKRARTYuhpnSICK5jkha0bQ8JZ5emrj2m8TzT9F2wZOWI4F0dtj/
u0eI4gG0sWG0go6e1axvV5QQjWXHu0tFydRSUsNfvo8V08lf7lQdgtghGDwAKxdi
8gNAMNsZz3e+Lzk+Kr2hjQw+YChYAyhxx+iPqTHG1ct1xJT4WfX5fTyH4trmm6DL
+2ohR5nNado2Y2zPu5oIOcw5AY0EZ5InBgEMAJj9qF4hanqb7jMMK7Z8jdt81zsb
CFrrGMpmu6EqPrQ9LDMW9JV/Uxr94RD1sUzMQV61WUcS6G00Iv1yv1kFZSikI85H
Ju+uejuQV0SrVNOSBltrUnXhlmPnOTAbf+C+J2i4dwSdzrxsnRvePy2NjvHEP05y
Jvj5MgjRrXsS9L+0IGmipPpHIAb3h1DNMwnlu2oAbS7ralAvjzAtDPD+dxhP2F/S
QKD+Nn0n7zttwSdg5wIvoALGAex1KgbNia2AchgzELfi4n1itUr8s2JuTJ5tvOm4
3C8FrSf4fVCXa/tCeILf0a+YBCZyDERC6YwHmM/3sJHjvnPLCylplswXq9lMjQS
k8T2rbIwNfihq1QW4cv2MbH2AjQ9EHg913wHJZrhX3QCtidtDnGYA1EIwyRn2L/a
AUGIbwXs3kukGQFt9a+lx0Si6eteQh7WMECu2psCImkV9ms+H6ypNmMezpIUW7IN
HLVMKOB4zjjAvCQ8ABpjI3PgkCIBm7AWIEZnwwARAQABiQG2BBgBCAAgFiEE80J+
oz1E47f7amY4Uy8J8Gv6rfcFameSJwYCGwwACgkQUy8J8Gv6rfcXVgv/X5hz2WyW
ouoL+Ro27m46rXG3L+rxwAx36oYiMSMoUpBZVDKUHx6BYuzMhaHOxAakceQvSth
4obcWxHijN0+HKdpXuM1Ukbp+fxuFGGYmWYXlQd2sk/dPqJlqUDR2aJG/1LomDBd
rGBNw2vox/96KwHxmaXMiAUhRbdvZOGGX81tZ6q/3F8L+QKzvWUSsUkYCI9/AJgB
Cb7PhLy2+ltZSyAafsGclH5ff39kfykvjPctdEhLuGf1pACTog3/MqWgyWFgQXbp
YWUz8pGqID2Hwuto5tqo2jahY1ISazAAAs+9Jm1VK0Xepo/tBBxhda2q+U4AAssJ
Ykz3Yxzf4kBFewu6CnD+69DU4t1S2KdUpDDLdTgrT7hMmmZ3CJRzZ9b9qpOU5yJS
J3jcG1HV5DNnVRrOYcsEAd63cld8coKK0S5XeV8FhnXwPDg5IJzTzjBilUHyc4UN
GI4Ks7U8l6jD1UJjdXydogp/yNVM2Pil081M9k7wnuGa03HFJ8WjA67p
=zv/B
```

-----END PGP PUBLIC KEY BLOCK-----