

Joseph Wilson

Christchurch, New Zealand

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Master in mathematics and physics, currently working at STATISTICS AOTEAROA.

Skills and Interests

Passionate learner and teacher with strong analytical and technical abilities. Enthusiastic scientific communicator, in written and oral mediums.

Technologies ● JULIA, PYTHON, R, MATHEMATICA ● L^AT_EX (scientific typesetting)
● UNIX systems, GIT (version control) ● Web technologies (HTML-JS-CSS)

I am currently learning French, and in my free time play the piano, build apps and attend weekly Modern Jive dance classes.

Interests ● Machine learning and neural networks ● Graphic design and illustration
● Mathematical visualisations and learning ● Piano and modern jive dance

Work Experience

- 2022– **Statistical and Data Analyst** for Research and Development at STATISTICS NEW ZEALAND.
2021 Mathematics tutor and lab demonstrator in physics at VUoW.
2019–2020 Private tutor for maths and physics. Tutor, TA and Lab Demonstrator at UoC in physics for all year levels.

Education

Maintained A⁺ performance across all tertiary-level courses, projects and theses.

- 2021–2022 **Master of Science with Distinction**, VICTORIA UNIVERSITY OF WELLINGTON.
Thesis in mathematical physics, “*Geometric Algebra for Special and General Relativity*” supervised by Prof. Matt Visser.
- 2020 **Postgraduate Certificate in Science**, UNIVERSITY OF CANTERBURY.
Self-directed research project in astronomy, “*An Overview of the Strong CP Problem and Axion Cosmology*” supervised by Dr. Jenni Adams.
- 2017–2019 **Bachelor of Science with Honours**, UNIVERSITY OF CANTERBURY.
Majoring in mathematics and physics.
● Vice-Chancellor’s Excellence Award – *to take an additional interest course in bioethics*
● University of Canterbury Mathematics & Statistics Scholarship – \$5k
● Madam Tiong Guok Hua Memorial Prize in science – \$3.2k
● New Zealand Institute of Physics Prize
Summer projects included:

References

Academic and professional references available upon request.