

Joseph Wilson

Christchurch, New Zealand

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Soon-to-be master of mathematics and physics seeking to apply his skills in industry.

Skills and Interests

Enthusiastic learner and with strong analytical and technical ability. University summer projects included: (2018) Using numerical methods to reproduce models of the galactic bar and disk with C and PYTHON. (2019) Developing and documenting a workflow for *crystal band structure computations* using CP2K and PYTHON for the physics department.

Technologies ● JULIA (data science and general purpose) ● L^AT_EX (scientific typesetting)
● PYTHON (with NUMPY, SCIPY, SYMPY) ● UNIX systems, BASH, C++
● MATHEMATICA ● Web technologies (HTML-JS-CSS)

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

Education

- 2021-2022 **Master of Science** in mathematical physics, VICTORIA UNIVERSITY OF WELLINGTON.
“Geometric Algebra for Special and General Relativity” supervised by Prof. Matt Visser.
Due to finish 12 March 2022.
- 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 (Honours)** in mathematical physics, UNIVERSITY OF CANTERBURY.
● Graduated with maximum GPA for all years.
● 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

Work Experience

- 2021 Tutor in mathematics and lab demonstrator in physics at VUoW.
- 2020 Kitchen hand at BISHOP JULIUS HALL and casually at GATHERINGS restaurant.
- 2019-2020 Tutor, TA and Lab Demonstrator at UoC in physics for all levels.

References

Matt Visser, *Professor of Mathematics*
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David Wiltshire, *Professor of Theoretical Physics*
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