

# Joseph Wilson

## Curriculum Vitae

Christchurch  
New Zealand

0204 075 0547

✉ [jo.alex.w@gmail.com](mailto:jo.alex.w@gmail.com)

Master of mathematics and physics, working at STATISTICS NEW ZEALAND.

### Skills and Interests

Passionate learner and teacher with strong analytical and technical abilities. Enthusiastic scientific researcher and communicator.

Technologies ● JULIA, R, PYTHON, MATHEMATICA ● L<sup>A</sup>T<sub>E</sub>X scientific typesetting  
● UNIX systems, GIT version control ● Web (HTML-JS-CSS)

I spend my free time programming, playing the piano, programming, practicing French...

Interests ● Mathematics and theoretical physics ● Geometric algebra  
● Teaching with visuals and interactivity ● Scientific computing

### Publications

- 2022 Wilson J., *Geometric Algebra for Special Relativity and Manifold Geometry*, Open Access University of Wellington. MSc thesis.
- 2021 Wilson J., Visser M., *Explicit Baker–Campbell–Hausdorff–Dynkin formula for Spacetime via Geometric Algebra* in INT. J. OF GEOMETRIC METHODS IN MODERN PHYSICS, V18.14, No. 2150226.

### Qualifications

Graded A<sup>+</sup> in all tertiary-level courses, research projects and theses.

2021–2022 **Master of Science with Distinction**, VICTORIA UNIVERSITY OF WELLINGTON.

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.

- Vice-Chancellor's Excellence Award
- University of Canterbury Mathematics & Statistics Scholarship
- Madam Tiong Guok Hua Memorial Prize in science
- New Zealand Institute of Physics Prize

### Work Experience

2022–2023 **Statistical and Data Analyst** in Research and Development at STATISTICS NEW ZEALAND.

2021 Mathematics tutor and physics lab demonstrator at VICTORIA UNIVERSITY OF WELLINGTON.

### References

Academic and professional references available upon request.