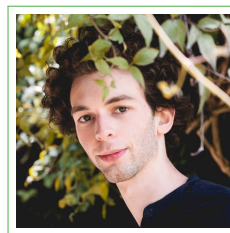


# Joseph A. Wilson

*New Zealand, 1998*

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I am a driven learner with an eye for detail, currently a Master's student of mathematical physics at Victoria University of Wellington, New Zealand.

## Skills and Interests

I love mathematics and physics, enjoy visual art, programming, and piano playing. I was an the graphic designer for the Physics and Astronomy Society at the University of Canterbury, where I obtained a Bachelor of Science with honours.

## Work Experience

- 2020 Kitchen hand at BISHOP JULIUS HALL and casually at GATHERINGS restaurant. – *cleaning dishes, serving, and tidying up in a fast-paced environment*
- 2019–2020 Private tutor for maths and physics. Tutor, TA and Lab Demonstrator at UC for physics at up to third-year level (PHYS101, PHYS310 and PHYS311). – *reliably engaging students, moderating classroom discussion and meeting frequent deadlines*
- 2017 Managed a stall at NOSTALGIA FESTIVAL selling artists' merchandise for bands *Bryony Matthews* and *Your Indigo*. – *retail and cash handling*.
- 2015–2016 Graphic design freelancer with clients including CDN TRUST (produced logo for use on website, posters and clothing) and NOVOTECH CRO (produced conference banners of photo-realistic composite skylines displaying famous Asia-Pacific buildings).

## Education

- 2017–2019 **Bachelor of Science (Honours)** in mathematical physics, *University of Canterbury*.
  - Graduated with maximum overall GPA score.
  - Vice-Chancellor's Excellence Award – *to take an additional interest course in bioethics*
  - New Zealand Institute of Physics Prize
  - Madam Tiong Guok Hua Memorial Prize in science – \$3.2k
  - University of Canterbury Senior Scholarship – \$2k
  - University of Canterbury Mathematics & Statistics Scholarship – \$5k
- 2016 **NCEA Level 3**, *Middleton Grange School*
  - Received custom-made service award for being consistently proactive and assisting toward peers in the maths classroom.
  - Member of the prefect team. — *leadership and cooperation skills*
  - Received the Academic Cup for overall performance. — *care and dedication to work*

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## References

**Matt Visser**, *Professor of Mathematics*.

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**David Wiltshire**, *Professor of Theoretical Physics*.

University of Canterbury

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**Alex Davis**, *Owner of Gatherings Restaurant*.

5/2 Papanui Road, Merivale

Christchurch 8014

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## Academic Record

Achived A<sup>+</sup> grades in all courses.

2020 **Postgraduate Certificate**, independent yearlong project.

Self-led research under the supervision of Dr. Jenni Adams at UC.

○ ASTR430 Literature review: *An Overview of the Strong CP Problem and Axion Cosmology*

2019 **BSc(Hons)**, final year.

Honours project was supervised by Prof. David L. Wiltshire at UC.

○ MAPH480 Mathematical Physics Research Project (*in gravitational memory*)

○ PHYS416 Quantum Field Theory

○ PHYS415 General Relativity

○ PHYS411 Advanced Quantum Mechanics

○ MATH437 Group Theory

○ MATH426 Projective Geometry

○ MATH416 Differential Systems

2018 **BSc**, third year.

Received the Vice-Chancellor's Excellence Award to take an interest course in bioethics.

○ PHYS493 Research Project (*in computing crystal band structures*)

○ PHYS326 Classical Mechanics and Symmetry Principles

○ PHYS313 Advanced Electromagnetism and Materials

○ PHYS311 Quantum Mechanics

○ PHYS310 Thermal, Statistical and Particle Physics

○ MATH420 Hilbert Spaces

○ MATH365 Applications of Complex Variables

○ MATH363 Dynamical Systems

○ MATH343 Metric, Normed and Hilbert Spaces

○ MATH302 Partial Differential Equations

2017 **BSc**, direct entry to second year.

Received the Madam Tiong Guok Hua Memorial Prize in science.