Damon Binder

Phone: (+44)7735645974   **Email:** damonjbinder@gmail.com   **Website:** http://djbinder.com/

Work	**Oxford University (2021 – Present)**

- Senior research scholar at the Future of Humanity Institute
- Research interests include nuclear weapons policy and other potentially neglected longtermist issues, and improving the EA research pipeline

Education

Princeton University (2017 – 2021)

- PhD and Master of Arts in physics

Thesis: *On N=6 Superconformal Field Theories* (pdf)
Advisor: Prof Silviu Pufu   **GPA:** 3.9/4.0

Coursework

- *String theory, quantum field theory, general relativity, biophysics*
- *Neural networks, theory of deep learning, probabilistic models of cognition, convex optimization, statistical data analysis*

Australian National University (2014 – 2016)

- Bachelor of Science (Advanced) (Honours)
- Graduated with First Class Honours in Physics and the University Medal

Major: Physics   **Minor:** Mathematics
GPA: 7.0/7.0   **WAM:** 94%
Honours Thesis: *Nuclear Interaction from Effective Field Theory* (pdf)

Publications

Author of 7 published papers in theoretical physics, including a single-author paper. List of publications can be found here.

Awards and Scholarships

2017 – 2020	John Monash Scholarship
2016	University Medal at Australian National University
2014 – 2016	National Undergraduate Scholarship
2013	Mary Foley-Elliott memorial for Dux of Townsville Grammar School

Teaching Experience

Princeton University (2018 – 2021)

- Assistant in instruction for *General Physics II, Classical Mechanics,* and the graduate preliminary exam preparation courses

Australian National University (2017)

- Tutored courses on theoretical physics, differential equations, and quantum mechanics
- Developed course notes for a new quantum field theory course (pdf)

Technical Skills

- Python (NumPy, SciPy, PyTorch), Mathematica, JavaScript, Haskell
- Latex, Word, HTML and CSS, Beamer, PowerPoint, Excel