

Evan Hockings

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Positions

Member of Technical Staff

July 2025–present

Iceberg Quantum

Education

Doctor of Philosophy (Physics)

2021–2025

University of Sydney

Thesis: Noise characterisation of fault-tolerant quantum computers

Advisors: Andrew Doherty, Robin Harper

Bachelor of Science (Advanced Mathematics) (Honours) in Physics

2017–2020

University of Sydney

Honours Class I and the University Medal

Thesis: Scalable estimation of quantum noise

Advisor: Steven Flammia

Weighted average mark: 90

Select awards and honours

Unitary Foundation Microgrant (QuantumACES.jl) 2024

Dean's List of Excellence in Academic Performance 2017, 2018, 2019, 2020

School of Physics Julius Sumner Miller Scholarships for Academic Excellence No. 3 2019

Walter Burfitt Scholarship No. 2 for Physics 2019

University of Sydney Academic Merit Prize 2017, 2018

Science Foundation for Physics Scholarship No. 2 2018

School of Physics Julius Sumner Miller Scholarships for Academic Excellence No. 1 2017

International Chemistry Olympiad Bronze Medal 2016

Select publications

1. **E. T. Hockings**, A. C. Doherty, R. Harper. Improving error suppression with noise-aware decoding. arXiv preprint, 2025. arXiv:2502.21044.
2. **E. T. Hockings**. QuantumACES.jl: design noise characterisation experiments for quantum computers. Journal of Open Source Software 10, 107, 7707, 2025. doi:10.21105/joss.07707.
3. **E. T. Hockings**, A. C. Doherty, R. Harper. Scalable noise characterisation of syndrome extraction circuits with averaged circuit eigenvalue sampling. PRX Quantum 6, 010334, 2025. doi:10.1103/PRXQuantum.6.010334, arXiv:2404.06545.