

Evan Hockings

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Positions

Member of Technical Staff	July 2025–present Iceberg Quantum
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Education

Doctor of Philosophy (Physics)	2021–2025 University of Sydney
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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
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Honours Class I and the University Medal

Weighted average mark: 90

Thesis: Scalable estimation of quantum noise

Advisor: Steven Flammia

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. P. Webster, L. Berent, O. Chandra, **E. T. Hockings**, N. Baspin, F. Thomsen, S. C. Smith, and L. Z. Cohen, The Pinnacle architecture: reducing the cost of breaking RSA-2048 to 100 000 physical qubits using quantum LDPC codes, [arXiv:2602.11457](#).
2. **E. T. Hockings**, A. C. Doherty, and R. Harper, Improving error suppression with noise-aware decoding, [arXiv:2502.21044](#).
3. **E. T. Hockings**, [QuantumACES.jl](#): design noise characterisation experiments for quantum computers, [Journal of Open Source Software](#) **10**, 7707 (2025).
4. **E. T. Hockings**, A. C. Doherty, and R. Harper, Scalable noise characterisation of syndrome extraction circuits with averaged circuit eigenvalue sampling, [PRX Quantum](#) **6**, 010334 (2025), [arXiv:2404.06545](#).