JOSEPH PAUL MACMANUS

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EDUCATION

Exp. 2025	University of Oxford
	DPhil in Mathematics
Exp. 2021	University of Oxford
	MSc in Mathematics and Foundations of Computer Science (MFoCS)
2020	University of Bristol
	BSc in Mathematics and Computer Science, First Class Honours
	Bachelor's thesis: Decision Problems within Combinatorial Group Theory.

TEACHING EXPERIENCE

2020 - 2020	Algorithms Teaching Assistant Department of Computer Science, University of Bristol
2019 – 2020	Data Structures and Algorithms Teaching Assistant Department of Computer Science, University of Bristol
2019 – 2020	Combinatorics Maths Café Leader School of Mathematics, University of Bristol
2018 - 2019	GCSE and A-Level Mathematics Tutor Metatutor Ltd.

RESEARCH EXPERIENCE

2019 Quantum Information Research Internship School of Mathematics, University of Bristol

PUBLICATIONS

[1] Alexandru, C. -M., Bridgett-Tomkinson, E., Linden, N., **MacManus**, **J.**, Montanaro, A., Morris, H. (2020). Quantum speedups of some general-purpose numerical optimisation algorithms. *Quantum Science and Technology*, 5(4), 045014.

SCHOLARSHIPS, GRANTS, AND PRIZES

2021 - 2025	Heilbronn Doctoral Partnership Scholarship
	Heilbronn Institute for Mathematical Research
2020	Postgraduate Grant
	The James Pantyfedwyn Foundation
2020	Graphcore Prize for Best Computer Science Student on a 3-Year Programme
	Department of Computer Science, University of Bristol
2019	Top Student in 2nd Year Maths and Computer Science
	Department of Computer Science, University of Bristol

TECHNICAL SKILLS

- · Proficient programmer in Haskell, C, and Java, with experience in several other languages.
- · Confident working with LATEX.

OTHER ACHIEVEMENTS

2020 – Present Associate Membership

London Mathematical Society

2019 Undergraduate Summer Research Bursary

School of Mathematics, University of Bristol

2019 - Present - Technical Blog

https://jpmacmanus.me/

Topics written on include quantum search, combinatorics, and group theory.

2019 Bristol PLUS Award

Careers Service, University of Bristol