

BENJAMIN WALKER

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HIGHLIGHTED PUBLICATIONS

- Log Neural Controlled Differential Equations: The Lie Brackets Make a Difference** 2024
International Conference on Machine Learning
- Theoretical Foundations of Deep Selective State-Space Models** 2024
Conference on Neural Information Processing Systems
- Generating Synthetic EHRs using Continuous-time Diffusion Models** 2023
Machine Learning for Healthcare

EXPERIENCE

- Lectureship in Applied Mathematics** October 2024 - June 2025
Balliol College
- MSc in MMSC: Introduction to Python Course** June 2024 - October 2025
Mathematical Institute
Author and teacher
- Master's Thesis Supervision** July 2022 - September 2023
Mathematical Institute
Ahmed Ammar Naseer: Thesis published in Machine Learning for Healthcare
Jad Mounayer: Awarded the MSc in Mathematical Modelling and Scientific Computing thesis prize

EDUCATION

- University of Oxford** January 2022 - December 2025
Doctor of Philosophy in Mathematics
- University of Oxford** October 2020 - September 2021
MSc in Mathematical Modelling and Scientific Computing
Distinction (72%)
- The University of Manchester** September 2016 - June 2020
MMaths&Physics
First (85%)
- Victoria College Jersey** September 2013 - July 2016
A-Levels
GCSEs
*Four A**
Eight A & Three A*

PERSONAL ACHIEVEMENTS AND AWARDS

- 1st Place in the George B. Moody Physionet Challenge 2024
Raised £7000 for Cancer Research UK hiking 942 miles from John O'Groats to Land's End
MMaths&Physics highest dissertation grade
Advanced rescue SCUBA diver

REFERENCES

- Prof. Terry Lyons - PhD Supervisor
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- Dr. Kathryn Gillow - MSc Supervisor
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