BENJAMIN WALKER

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HIGHLIGHTED PUBLICATIONS

Log Neural Controlled Differential Equations: The Lie Brad International Conference on Machine Learning	ckets Make a Difference 2024
Theoretical Foundations of Deep Selective State-Space Models Conference on Neural Information Processing Systems	
Generating Synthetic EHRs using Continuous-time Diffusion Machine Learning for Healthcare	on Models 2023
EXPERIENCE	
Lectureship in Applied Mathematics Balliol College	October 2024 - June 2025
MSc in MMSC: Introduction to Python Course Mathematical Institute Author and teacher	June 2024 - October 2024
Master's Thesis SupervisionJuly 2022 - September 2023Mathematical InstituteAhmed Ammar Naseer: Thesis published in Machine Learning for HealthcareJad Mounayer: Awarded the MSc in Mathematical Modelling and Scientific Computing thesis prize	
EDUCATION	
University of Oxford Doctor of Philosophy in Mathematics	January 2022 - December 2025
University of Oxford MSc in Mathematical Modelling and Scientific Computing	October 2020 - September 2021 Distinction (72%)
The University of ManchesterMMaths&Physics	September 2016 - June 2020 First (85%)
Victoria College Jersey A-Levels GCSEs	September 2013 - July 2016 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 terry.lyons@maths.ox.ac.uk