Dr Stuart Burrell

stuartburrell1994@gmail.com

Curriculum Vitae

stuartburrell.github.io

MPhil	University of Ca		5	21-2022	
PhD	University of St		, 5	16-2020	
MMath	University of St	Andrews I	Mathematics, First Class Honours, Graduate Medal 20:	12-2016	
Experi	ENCE				
	h scientist		11/2022 –		
•	arning Team, Fea	•	Cambri	dge, Uł	
		and explain	able AI systems for fraud detection		
Mathematician Cyber Al Research Center, Darktrace				10/2022-11/2022 Cambridge, UK	
-			r analysing SaaS event data	age, ur	
	•	i illouets tot	analysing saas event data	202	
Postdoctoral researcher London Mathematical Society Early Career Fellowship, University of St Andrews St.				2021 Andrews, UK	
		-	geometric measure theory and metric geometry	c 11 0, 0 .	
		, р. с сососо,	geometric measure theory and means geometry		
PUBLIC	ATIONS				
Monatsh. Math.			The fractal structure of elliptical polynomial spirals (with K. Falconer and J. Fraser)	2022	
Journal of Theoretical Probability Journal of Fractal Geometry		-	Dimensions of fractional Brownian images Projection theorems for intermediate dimensions (with K. Falconer and J. Fraser)	202: 202:	
Journal of Number Theory			Digit expansions of numbers in different bases (with H. Yu)	202	
Annal. Acad. Sci. Fenn. Math.			The dimensions of inhomogeneous self-affine sets (with J. Fraser)	2020	
Real Analysis Exchange			On the dimension and measure of inhomogeneous attractors	2020	
OPEN-S	SOURCE SOFTW	ARE			
Tabular SSL Suite			Benchmarking suite supporting 5 SOTA tabular self-supervision methods in PyTorch	2022	
GAP Semigroups package GAP Digraphs package		e	Methods on the torsion and order problems of natural & tropical matrix semigroups	2016 2016	
	rapris package		Methods for efficiently computing the simple circuits of a digraph	2016	
SKILLS	. d 1). 4b T	and an D. Tanah Cit Tay Mathab Dash HNIV		
roots an Teachin			sorflow, PyTorch, Git, TeX, Matlab, Bash, UNIX nours of Mathematics and Statistics tutoring experience in higher education		
	-		Dynamic Days Europe, Fractals and Stochastic VI and the Royal Society of Edinburgh		
CERTIfi	CATIONS				
		vithme IId	acity	2021	
Data Structures and Algorithms, Udacity Deep Learning Specialisation, Deeplearning.Al, Coursera				202	
Machine Learning, Stanford University, Coursera				202	
Associate Fellow of the Higher Education Academy, AdvanceHE				2020	
Supporting Student Learning, University of St Andrews				2020	
Curriculum Design and Assessment, University of St Andrews Future Leaders Programme, Carnegie Trust				2020	
	•		ie itust	2020	
Award	S AND SCHOLAI	RSHIPS			
	-	-	College Scholarship, University of Cambridge	202	
University Teaching Awards: Best Postgraduate Tutor (3x Nominee), University of St Andrews Carnegio Trust PhD Scholar, The Carnegio Trust for the Universities of Scotland				2020	
Carnegie Trust PhD Scholar, The Carnegie Trust for the Universities of Scotland Arthur Hinton Read Memorial Prize for best grades in pure mathematics, University of St Andrews				2016 2016	
				2010	
Duncan Prize for best final year research project, University of St Andrews Sanderson Prize for best overall degree achievment, University of St Andrews				2010	
			lemic Excellence, University of St Andrews	2015	
The Prir	icipal's Scholars	nip for Acad	terrice excellence, onliversity of 5t Andrews	201.	