Dr Stuart Burrell

stuartburrell1994@gmail.com

Curriculum Vitae

stuartburrell.github.io

EDUCA	IION				
MPhil	University of Ca	_	5 , 5	21-2022	
PhD	University of St		, ,	16-2020	
MMath	University of St	Andrews /	Mathematics, First Class Honours, Graduate Medal 20	12-2016	
Aathom			10/2022 –	Drocon	
				- Present oridge, UK	
Resea	rch in unsupervis	sed and self-	-supervised machine learning	<i>3</i> ,	
	cations to autono	mous AI for	cybersecurity		
Postdoctoral researcher School of Mathematics and Statistics, University of St Andrews			University of St Andrews St Andre	2021 St Andrews, UK	
			y Career Fellowship	cvvs, or	
			geometric measure theory and metric geometry		
PUBLIC	ATIONS				
Monatsh. Math.			The fractal structure of elliptical polynomial spirals (with K. Falconer and J. Fraser)	2022	
Journal of Theoretical Probability			Dimensions of fractional Brownian images	2021	
Journal of Fractal Geometry Journal of Number Theory			Projection theorems for intermediate dimensions (with K. Falconer and J. Fraser) Digit expansions of numbers in different bases (with H. Yu)	2023 2020	
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	
)PEN-S	SOURCE SOFTWA	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 Methods for efficiently computing the simple circuits of a digraph	2016 2016	
KILLS					
Teaching Over 1000+ h		ver 1000+ h	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				
Data Structures and Algorithms, Udacity				2021	
Deep Learning Specialisation, Deeplearning.Al, Coursera				2021	
Machine Learning, Stanford University, Coursera				2021 2020	
Associate Fellow of the Higher Education Academy, AdvanceHE Supporting Student Learning, University of St Andrews				2020	
Curriculum Design and Assessment, University of St Andrews			·	2020	
	eaders Programı.			2020	
WARD	S AND SCHOLAR	RSHIPS			
			College Scholarship, University of Cambridge	202	
			ostgraduate Tutor (3x Nominee), University of St Andrews	2020	
_			rnegie Trust for the Universities of Scotland 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				2016	
		_	lemic Excellence, University of St Andrews	2015	
he Prir	icipai's Scholarsr	np for Acad	ienic Excellence, oniversity of 5t Andrews	2010	