Dr Stuart Burrell

stuartburrell.github.io

2012

stuartburrell1994@gmail.com Curriculum Vitae

Head Teacher Award, South Wolds Community School

MPhil	University of	_		21-2022
PhD MMath	University of University of		, 6	16-2020 12-2016
Experi	•	•		
	h scientist		2022 –	Present
Deep Learning Team, Featurespace Camb				dge, UK
Build	ing deep genera	ative models fo	or data synthesis	
Postdoctoral researcher				2021
			areer Fellowship, University of St Andrews St Andre	ews, Uk
Resea	arch on stochas	tic processes,	geometric measure theory and metric geometry	
	CATIONS			
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)	2021 2021
Journal of Number Theory			Digit expansions of numbers in different bases (with H. Yu)	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
DPEN-	SOURCE SOFT	WARE		
Tabular SSL Suite			Benchmarking suite supporting 5 SOTA tabular self-supervision methods in PyTorch	2022
GAP Semigroups package		_	Methods on the torsion and order problems of natural & tropical matrix semigroups	2016
GAP Digraphs package		!	Methods for efficiently computing the simple circuits of a digraph	2016
KILLS		Duthan Tana	outland Di Tarak Cit Tay Matlah Dook LINIV	
			orflow, PyTorch, Git, TeX, Matlab, Bash, UNIX ours of Mathematics and Statistics tutoring experience in higher education	
· · · · · · · · · · · · · · · · · · ·			Dynamic Days Europe, Fractals and Stochastic VI and the Royal Society of Edinburgh	
CERTIF	CATIONS			
Data St	ructures and Al	gorithms , Uda	acity	2021
Deep Learning Specialisation, Deeplearning.Al, Coursera				2021
Machine Learning, Stanford University, Coursera				2021
Associate Fellow of the Higher Education Academy, AdvanceHE Supporting Student Learning, University of St Andrews				2020 2020
Curriculum Design and Assessment, University of St Andrews				2020
	_eaders Progra			2020
WARD	S AND SCHOL	ARSHIPS		
Cambri	dge Trust and (Corpus Christi	College Scholarship, University of Cambridge	2021
University Teaching Awards: Best Postgraduate Tutor (3x Nominee), University of St Andrews				2020
_		•	negie Trust for the Universities of Scotland	2016
Arthur Hinton Read Memorial Prize for best grades in pure mathematics, University of St Andrews				2016
Duncan Prize for best final year research project, University of St Andrews Sanderson Prize for best overall degree achievment, University of St Andrews				2016 2016
The Principal's Scholarship for Academic Excellence, University of St Andrews				2016
laad Ta	-	Sauth Walda C	The Executive Collection of Service Collection Collecti	2010