STUART BURRELL

Carnegie Scholar \diamond University of St Andrews \diamond United Kingdom LinkedIn \diamond GitHub \diamond Website

Email Phone Languages	stuartburrell1994@gmail.com +44 7979 004965 English, Basic German, Basic Japanese	
Programming	Python, R, Git/GitHub, GAP, Unix, LaTeX, Maple.	
EDUCATION		
Fractal geometr	natics, University of St Andrews ry, dynamical systems and dimension theory. hematical Sciences Training Center,	2017 - Present
Graduate cours Academy for	es in Algebra, Analysis, Topology, Probability and Statistics PhD Training in Statistics,	2016 - 2018
	es in Statistics at the Universities of Cambridge, Durham and Glasgow. ening Engineer Nanodegree, Udacity	2016 - 2017 2016 - 2017
MMath, Mat	hematics, First Class Honours, GPA 4.0, University of St Andrews	2012 - 2016
PUBLICATION	${f S}$	
The dimension of inhomogeneous self-affine sets (with J.M. Fraser),		July 2018
in preparation. On the dimer submitted.	asion and measure of inhomogeneous attractors, arXiv	May 2018
SOFTWARE CO	ONTRIBUTIONS	
GAP Semigro	bups package eide the order and torsion problems of natural and tropical matrix semigroups.	2016
GAP Digrapl	GAP Digraphs package	
Methods for co	mputing the simple circuits of a digraph.	
EXPERIENCE		
	Statistical Ecology and Machine Learning earch into Ecological and Environmental Modelling, St Andrews.	2016-2017
GAP Softwar	re Development	Summer 2016
· ·	ematics and Statistics, University of St Andrews, St Andrews. enship in Research and Leadership	Summer 2015
	ematics and Statistics, University of St Andrews, St Andrews.	Summer 2019
_	te Research Summer School ematics and Statistics, University of St Andrews, St Andrews.	Summer 2014
AWARDS AND	SCHOLARSHIPS	
Carnegie PhI	-	2016-2020
	e, University of St Andrews	2016
	rize, University of St Andrews	2016 2016
	Hinton Read Memorial Prize, University of St Andrews ne Learning/Deep Learning Scholarship	2016
	te Prize Winner, Institute of Mathematics	2016
	edal in Mathematics, University of St Andrews	2016
	1)- Calalandia for Analonia Franklana Hairania f Ct Androna	2012 16

The Principal's Scholarship for Academic Excellence, University of St Andrews

2012 - 16

	2015
The University Scholarship for Research and Leadership, University of St Andrews	
The Deans' List for Academic Excellence, University of St Andrews	2012 - 16
Gold Duke of Edinburgh Award	2013
CALKS	

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A brief note on the dimension of inhomogeneous attractors	September 2018
Dynamic Days Europe, Loughborough.	
The journey to a PhD in Mathematics	July 2018
UWS Summer STEM Academy, Glasgow.	
A universal upper bound on the dimension of inhomogeneous attractors	June 2018
British Mathematical Colloquium, St Andrews.	
How big are inhomogeneous attractors?	May 2018
Edinburgh Mathematical Society PG Student Meeting, The Burn, Glen Esk	
On the dimension and measure of inhomogeneous attractors	April 2018
Pure Analysis Seminar, St Andrews.	
An introduction to inhomogeneous attractors	April 2018
Pure Postgraduate Seminar, St Andrews.	_
Fractal geometry in nature and art	February 2018
The Royal Society of Edinburgh, Edinburgh.	
An introduction to iterated function systems	February 2018
Postgraduate Interdisciplinary Mathematical Symposium, Glen Esk	
Dimension of inhomogeneous self-conformal and self-affine sets	January 2018
School Research Day, St Andrews.	
Inhomogeneous attractors and upper box dimension	December 2017
Insitut Mittag-Leffer, Stockholm, Sweden.	
Trace contrast methods in acoustic space	January 2017
African Institute of Mathematical Sciences, Cape Town, South Africa.	
An introduction to trace contrast methods	January 2017
University of Cape Town, Cape Town, South Africa.	Ů
Sequential Monte Carlo in population dynamics	April 2016
School of Mathematics and Statistics, St Andrews.	_
Artificial intelligence and Gödel's incompleteness theorems	February 2015
School of Mathematics and Statistics, St Andrews.	v
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CONFERENCES

October 2018
September 2018
September 2018
June 2018
June 2018
December 2017
October 2016

TEACHING

All available student feedback data is included reported on a scale of 1 (excellent) to 5 (poor) in the cateogires of Explanation (E), Organisation (O) and Availability (A).

Mathematics and Statistics Tutor, CAPOD, University of St Andrews,	2016 - Present
MT2502 Analysis, Tutor, University of St Andrews	Autumn 2018
MT1002 Mathematics, Demonstrator, University of St Andrews	Spring 2018
MT1002 Mathematics, Tutor/Demonstrator, University of St Andrews	Autumn 2017
E = 1.62, O = 1.65, A = 1.17	
MT1003 Pure and Applied Mathematics, Tutor (temporary), University of St Andrews	Spring 2017
MT2508 Statistical Inference, Demonstrator, University of St Andrews	Spring 2017
MT2504 Combinatorics and Probability, Tutor/Demonstrator, University of St Andrews	Autumn 2016
E = 1.17, O = 1.15, A = 1.17	
MT2000 Introduction to Python, Demonstrator, University of St Andrews	Autumn 2016
WORKSHOPS	
Postgraduate Interdisciplinary Mathematical Symposium	January 2018
University of St Andrews, St Andrews	-
Statistical Methods in Gibbon Conservation	August 2017
Centre for Research into Ecological and Environmental Modelling, St Andrews.	
Estimating Animal Abundance and Density using Acoustic Data	January 2017
University of Cape Town, Cape Town, South Africa.	
Scottish Mathematical Craining Center Symposium	October 2016
Perth.	
CoDiMa software carpentry	October 2016
International Centre for Mathematical Sciences, Edinburgh.	
Advanced PAMGuard	October 2016
PAMTech, Edinburgh.	
Spatial Capture-Recapture Methods	August 2016
Centre for Research into Ecological and Environmental Modelling, St Andrews.	
Laidlaw Leadership Program	2015
endorsed by the Institute of Management, St Andrews.	
PROFESSIONAL RESPONSIBILITIES	
Scottish Mathematical Sciences Training Centre Council, Student Representative	2016 - 2017