

New staff in the School of Mathematics & Statistics 2017–18



Dr Craig Anderson

Lecturer in Statistics

Craig obtained his PhD in Statistics at the University of Glasgow in 2015, before moving to Australia to take up a role as a Postdoctorate Research Fellow at the University of Technology Sydney. This role was split across two projects - one funded by the Australian Research Council Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS) and the other funded by the Bill and Melinda Gates Foundation.

Craig's research interests lie in the area of health statistics, with a particular focus on child growth modelling and spatial and spatio-temporal disease mapping.

In his spare time, Craig enjoys watching (and very occasionally playing) sport, and his main passion is football. He also enjoys cooking, hiking and playing chess.



Dr Alex Bartel

Senior Lecturer in Mathematics

Alex obtained his Ph.D. from Cambridge in 2010. Before coming to Glasgow, he spent 2 years as an Assistant Professor at Postech in Korea and 5 years as Zeeman Lecturer at Warwick.

Alex's research sits at the interface between number theory, representation theory, and arithmetic geometry. In the past, Alex has worked on the arithmetic of elliptic curves and on integral and rational representations of finite groups. In the last few years, he has been thinking about group actions on cohomology of low-dimensional manifolds, and independently on problems in arithmetic statistics, an area that aims to understand the statistical behaviour of arithmetic invariants such as ideal class groups in families.



Dr Sam Dean

Lecturer in Mathematics (temporary)

Sam is from Halifax, West Yorkshire, but has been living in Manchester for the past eight years while working on his MMath and PhD at the University of Manchester. After a short postdoc with Michael Wemyss, Sam is now a temporary lecturer.

Sam's PhD was on various functor categories and some connections between them. Although it is of a more category theoretic slant, his work is motivated by additive model theory (and, more recently, Auslander-Reiten theory). He is interested in generalising the model theory of modules, so that it becomes relevant to categories of sheaves and various accessible categories (e.g. definable categories, CM modules, contramodules, etc.).

If you meet Sam and wish to talk to him about non-maths things then possible ice-breakers include his pet house rabbit and the fact that he commutes from Manchester (it's not as bad as it sounds).



Mengyi Gong

Research Assistant

Mengyi is from Shanghai, China, somewhere over 5000 miles from Glasgow. She is a final year PhD student in statistics and a part time research assistant in the school. She studied Economics for her undergraduate degree in Shanghai and switched to statistics for her master's program in London. Her PhD is on the spatio-temporal analysis of remote-sensing image data, using functional PCA and state space model, both within a mixed effect model framework.

The research program Mengyi is involved in is about analysing a large remote-sensing data set of lake environmental measurements. She is supervised by Dr. Claire Miller and Prof. Marian Scott, and is working closely with Dr. Ruth O'Donnell.



Dr Sira Gratz

Lecturer in Mathematics

Sira grew up in Switzerland and completed her undergraduate studies at ETH Zurich, after which she moved to Hanover, Germany where she completed her PhD in 2015 under the supervision of Thorsten Holm. Before moving to Glasgow, she was an SNSF Early Postdoc.Mobility fellow working with Karin Erdmann at the University of Oxford.

Sira's research interests focus on the representation theory of algebras with a combinatorial angle. In particular she is interested in cluster algebras and cluster categories, and enjoys developing and working with combinatorial models that help us describe, classify and gain insight into structures of importance in the representation theory of algebras.



Dr Dimitra Kosta

Lord Kelvin Adam Smith Fellow

Dimitra's education and research were hosted at the University of Ioannina, the University of Edinburgh and the University of Vienna, where she gained experience at undergraduate, doctoral and post-doctoral level.

Between 2014-2017, Dimitra was a Daphne Jackson Trust Research Fellow at the School of Mathematics of the University of Edinburgh, funded jointly by EPSRC and Edinburgh University, following a career break for maternity and relocation reasons.

Her research originally lay in birational geometry, yet in the last three years she has also been interested in the interplay between algebraic geometry and statistics. In particular, her research interests include statistical inference using Algebraic Geometry, phylogenetic models, exploring singular statistical models and Markov bases of toric ideals.



Dr Raimondo Penta

Lecturer in Mathematics

Originally from Brescia, Italy, Raimondo was awarded his PhD in Applied Mathematics from the Politecnico di Milano. He developed his thesis entitled "Multiscale homogenization and its application to tumor biology: fluid and drug transport phenomena and poro mechanics of growing materials" under the supervision of Prof. Davide Ambrosi in the MoX Laboratory.

Before moving to Glasgow as a lecturer in Applied Mathematics, he spent just over a year in the Continuum Mechanics group of the Civil Engineering School of the Universidad Politecnica de Madrid, working with Prof. Josè Merodio on multiscale tumor modeling.

His broad scientific interests span several disciplines, including multiscale approximations and expansions, poroelasticity and porous media flow, theoretical and applied fluid dynamics, and mechanics of deformable solids. He develops his research at the interface between continuum mechanics and mathematical biology, and his main area of expertise is asymptotic homogenization and its application to real-world biological problems.



Dr Rob Teed

Lecturer in Mathematics

Originally from the West Midlands of England, Rob obtained his PhD in Geophysical and Astrophysical Fluid Dynamics at Leeds. He has since spent several years as a postdoc at Leeds - working on geodynamo models - and then Cambridge - working on solar dynamo models.

Rob's research interests include magnetohydrodynamics (MHD), dynamo theory, and convection and magnetic field generation in geophysical and astrophysical bodies. In particular, Rob's current research is focused on understanding the dynamics of MHD waves in Earth's core and the Jovian atmosphere.



Dr Tamsin Spelman

Research Assistant

Tamsin obtained her PhD from the University of Cambridge. Her research used analytical and numerical techniques to study armoured microubbles and an artificial cilium, which concluded with a two-month experimental internship with the engineering collaborators at the Université Grenoble in France.

Tamsin joins the School as a postdoctoral research assistant on retinal hemorrhage, working with Dr Peter Stewart. Tamsin's research interests include microfluidics and biological physics.



Dr Greg Stevenson

Lecturer in Mathematics

Greg is originally from Brisbane, Australia and obtained his PhD from the Australian National University in 2011. Since then he has held both a visiting position and a Humboldt postdoctoral fellowship in Bielefeld, Germany as well as a postdoctoral fellowship at MSRI in Berkeley.

Greg's research interests are rather broad and focus on connections, usually of a homotopical or homological nature, between representation theory, algebraic topology, and algebraic geometry. He has a particular soft spot for triangulated and differential graded categories, and the sort of geometry one can try to do with them.



Dr Jinlong Wei

Academic visitor from ZUEL, China

Jinlong is from China. He received his PhD from Huazhong University of Science and Technology in 2014, and then spent three years as a teacher in the Department of Statistics and Mathematics at Zhongnan University of Economics and Law.

Jinlong's research is in stochastic differential equations and stochastic partial differential equations. He is particularly interested in the well-posedness of one-order hyperbolic equations under stochastic perturbations, i.e. a deterministic hyperbolic equation is ill-posed, but under a stochastic perturbation, it is well-posed.



Dr Craig Wilkie

Research Assistant

Craig grew up in Glasgow and gained a BSc degree in Statistics from the University of Glasgow in 2012. He returned to study for a PhD on the topic of "nonparametric statistical downscaling for fusion of in-lake and remotely-sensed data", associated with the GloboLakes project (www.globolakes.ac.uk) and under the supervision of Dr Claire Miller and Prof Marian Scott. He is currently working on a project developing training materials for the statistical modelling of environmental freshwater networks.

Craig's research interests are in environmental statistics research, especially data fusion and statistical downscaling.

No
image
available

Dr Billy Woods

Lecturer in Mathematics (temporary)