School of Mathematics and Statistics
Research Day 1st December 2023
Talks in Theatre C; posters, food and drinks in 1A

09:30	Martyn	Quick	A whistle-stop (and very incomplete) tour of just infinite groups and related concepts
09:45	Giorgos	Minas	The statistical challenges of analysing an unconventional biological experiment
10:00	Fiona	Macfarlane	Exploring spatial patterns in cell populations
10:15	Jonathan	Fraser	Dimension interpolation: motivation and application
10:30	Dan	Lucas	Exact coherent structures embedded in fluid turbulence
10:45	Michail	Papathomas	Bayesian Mixture modelling, with applications in epidemiology, genetics and ecology

11.00-11.30: coffee + posters

11:30	Catriona	Harris	Marine mammals and noise: impact assessment and risk mitigation
11:45	Thibault	Poiret	spaces in algebraic geometry which parametrize something
12:00	Ben	Baer	Semiparametric efficiency for the working statistician
12:15	Cosima	Breu	Swirls in the corona
12:30	Alex	Rutar	Multifractal analysis and the geometry of Lagrange multipliers
12:45	Daphné	Lemasquerier	Dynamics of gas giants

13.00 - 14.00: lunch

14:00	Mark	Chaplain	Mechanical models of pattern and form in biological tissues: The role of stress-strain constitutive
14:15	Bromlyn	Cameron	Group dynamics and Thompson's group F
14:30	Alex	Russell	Mathematics of turbulent magnetic reconnection
14:45	Abinand	Kodi	Continuous time spatial capture recapture using stochastic differential equations
15:00	Peter	Cameron	Ordering groups by element orders
15:15	Kate	Mowbray	Estimating Particle Energisation in Collapsing Magnetic Trap Models of Solar Flares
15:30	Russell	Campbell	Melt ponds on Arctic sea ice: drainage and brine channel evolution
15:45	Deborah	Kent	Mostly in the zone: 19th-century eclipse expeditions

16:00: Drinks and nibbles