

Retreat for Women in Applied Mathematics 2026

Monday 12 – Friday 16 January 2026

The programme is subject to change. All times are GMT

MONDAY 12 JANUARY 2026	
09.00 – 09.50	Registration and refreshments
09.50 – 10.00	Welcome and housekeeping
10.00 – 11.00	Plenary talk Nina Snaith , University of Bristol <i>Hollywood's hippest mathematics: random matrix theory and the Riemann zeta function</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	Contributed talks: Freya Bull , University College London <i>Multi-scale modelling of blood rheology in sickle cell disease</i> Zita-Borbala Fulop , University of Glasgow <i>Patient-specific multiscale modelling of glioblastoma</i> Charlotte Taylor Barca , University of Manchester <i>A mathematical model of cell state dynamics in melanoma</i>
12.30 – 14.00	Lunch
14.00 – 15.30	Roundtable session Karen Meyer , University of Dundee and Laura Miller , University of Strathclyde <i>How to get your first permanent University job in Mathematics</i>
15.30 – 16.00	Refreshments
16.00 – 16.45	Poster pitches <i>5-minute pitch slide presentations for poster presenters wishing to briefly introduce their research programme</i>
16.45 – 17.30	Ignite session <i>3-minute pitch slide presentations for remaining delegates wishing to briefly introduce their research programme</i>
17.30 – 18.30	Welcome reception, hosted at ICMS

TUESDAY 13 JANUARY 2026	
10:00 – 10.45	Group discussions on “ <i>Ethics and integrity in academia and mathematical sciences</i> ” Facilitated by Hannah-May D’Ambrosio , University of Glasgow and Madeleine Moore , Loughborough University
10.45 – 11.15	Global Initiatives for Women in Applied Mathematics (online): Nikita Agarwal , University of Delhi <i>Indian Women and Mathematics</i>
11.15 – 11.30	Jane Walker , International Centre for Mathematical Sciences (ICMS) <i>Funding Opportunities at ICMS</i>
11.30 – 12.00	Refreshments

12.00 – 13.00	Contributed Talks: Chiara Lonati , Politecnico di Torino (online) <i>Liquid crystals and poroelastic media: two problems for hierarchical systems in Mechanics</i> Madeleine Moore , Loughborough University <i>Making a deposit: advances in our understanding of the coffee ring effect</i>
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	Jehan Alswaihli , University of Bath <i>Inversion and data assimilation for advection-reaction transport equation</i>
13.00 – 14.00	Lunch
14.00– 15.30	Roundtable session Dawn Geatches , Innovate UK Business Connect and Lauren Hyndman , International Centre for Mathematical Sciences (ICMS) <i>Knowledge Exchange in Mathematics</i>
15.30 – 16.00	Refreshments
16.00 – 16:30	Hannah-May D’Ambrosio , University of Glasgow <i>The Women in Applied Mathematics Mentoring Scheme (WAMMS)</i>
16:30-17:30	Poster session and networking time

WEDNESDAY 14 JANUARY 2026

10.00 – 11.00	Plenary talk Marie-Francoise Roy , University of Rennes <i>Women in mathematics around the world: strategies for gender equality</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	Contributed talks: Kasia Warburton , University of Cambridge <i>Water pressure evolution beneath glaciers</i> Andrea Sendula , University of Leeds <i>Impact of boundary conditions on viscoelastic fracture fields</i> Christiana Mavroyiakoumou , University of Oxford <i>Sail dynamics during tacking manoeuvres</i>
12:30 - 12:45	Milla Kibble , Isaac Newton Institute for Mathematical Sciences (INI) (online) <i>Funding Opportunities at INI</i>
12.45– 14.00	Lunch
14.00 – 15.30	Roundtable session Helen Gleeson , University of Leeds <i>Research Funding and Fellowship Applications</i>
15.30 – 16.00	Refreshments
16.00 – 17.20	Contributed talks: Xiaohan Zhou , University of Nottingham <i>Understanding strong Allee effects in diffusive population models with a moving boundary</i> Komal Kumari , University of Exeter <i>Winds of Change</i> Axa-Maria Laaperi , Newcastle University <i>Fires of the future: Mathematical modelling and statistical inference for wildfire dynamics</i> Isobel Parry , University of Exeter <i>An early warning indicator for tipping points in strongly forced systems</i>

THURSDAY 15 JANUARY 2026

10:00 – 11:00	Contributed talks: Busola Oronti , University of Warwick <i>Optimising classification of congestive heart failure using FWiC</i> Jenny Power , Heriott-Watt University <i>Radiotherapy treatment planning: A mathematician's perspective</i> Nataliia Kinash , University of Leeds <i>Uniqueness and stability of inverse space-dependent source problems in hyperbolic bio-heat transfer</i>
11.00 – 11.30	Refreshments
11.30 – 13.00	Roundtable session Laura Wadkin , Newcastle University and Hannah-May D'Ambrosio , University of Glasgow <i>Promoting EDI in Mathematics</i>
13.00 – 14.30	Lunch
14.30 – 15.30	Plenary talk Carola-Bibiane Schonlieb , University of Cambridge <i>A career in mathematical imaging</i>
15.30 – 16.00	Refreshments
16.00 – 17.30	Working group and mentoring session <i>Dedicated time for delegates to work in small groups to formulate a research project, plan a grant application, or have an extended discussion on issues of mutual interest.</i> <i>Private space will be available for those wishing to seek advice in a protected safe space from senior academic staff.</i>

FRIDAY 16 JANUARY 2026

10.00 – 11.00	Contributed talks: Jie Yang , University of Glasgow <i>Resonant triad interactions of gravity waves in variable-depth containers</i> Laura Pinkney , University of Leeds <i>The role of three-wave interactions in Faraday wave pattern formation</i> India Marsden , University of Oxford <i>Finite element method</i>
11.00 – 11.30	Refreshments
11.30 – 11.45	Daina Habdankaite , Chapman & Hall/CRC Press (online) <i>How to get published</i>
11.45 – 12.15	Summary session Apala Majumdar , University of Manchester
12.15	Packed lunch and end of workshop

Poster Presenters	
P1	Anna Hayward , University of Leeds <i>Within-Phagocyte model of the obligate intracellular pathogen Coxiella burnetii with consideration of phenotypic variant switching</i>
P2	Grace Jolly , University of Nottingham <i>Phase oscillator networks with delays for investigating plasticity in brain dynamics</i>
P3	Roselyn Kaondera-Shava , University of Bath <i>Modelling optimal TB/HIV coinfection personalized treatment</i>
P4	Clara Neather , University College London <i>Agent-based modelling of phages in biofilms</i>
P5	Marina Philippidou , University of Exeter <i>Rapid Antimicrobial testing using microfluidics and machine learning</i>
P6	Caroline Purvis , University of Bath <i>The evaporation of a sessile droplet into a confined atmosphere</i>
P7	Kaitlyn Ries , Newcastle University <i>Spatial-temporal modelling the spread of invasive species</i>
P8	Georgina Ryan , University of Oxford <i>Mathematical modelling of a mass-conserving electrolytic cell</i>
P9	Mingjia Yan , University of Cambridge <i>Geometric field theory for elastohydrodynamics of cosserat rods</i>
P10	Emily Cook , University College London <i>Annular flow of yield stress fluids</i>