

SAMBa Newsletter

Issue 11, June 2018



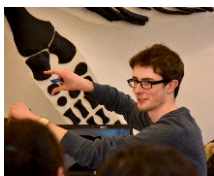
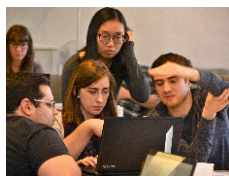
UNIVERSITY OF
BATH



ITT7 brings flood of new ideas

Our 7th Integrative Think Tank, which took place in January was delivered in partnership with the Environment Agency and the National Physical Laboratory. Participants included academics and students from the University of Bath's department of Architecture and Civil Engineering and the London School of Geometry and Number Theory.

Teams worked in collaboration to formulate mathematical approaches in areas of source and tracking optimisation, uncertainty in sensor networks, understanding temporal flooding data, and flood modelling in small catchments. Further exploration of these ideas is ongoing, and future PhD projects will be developed with both partners. Kevin Olding, currently in his first year of SAMBa commented that "the ITT was an intense and very rewarding week which provided an insight into the challenges and opportunities of working at the interface of academia and industry."



Environment
Agency

NPL



National Physical Laboratory

Cohort 5 selected

Following another high quality round of applications, we are delighted to be welcoming 17 new students to SAMBa in 2018. Four will be SAMBa aligned, working on research generated from previous ITTs or research related to SAMBa. Aligned funding comes from Schlumberger, Syngenta, EPSRC, and the Royal Society. The rest of the cohort will complete a first year of training before moving into statistical applied mathematics research. Students join us from the UK, Germany, Italy, Hungary, Ireland, Mexico, and Brazil and bring new talent in areas including hurling, savate, scouting and guiding, piano, and volleyball.



★ Register for our 2nd SAMBa summer conference on 25th and 26th June with speakers from Rothamsted Research, the University of Manchester, University of Lancaster, and UKRI.



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EPSRC
Engineering and Physical Sciences
Research Council



SAMBa students showcase research to University Chancellor

In March, SAMBa was chosen to be presented to the University Chancellor, HRH The Earl of Wessex. Students Emma Horton, Jack Betteridge, Matt Thomas, Owen Pembery, Matt

Durey, Dorka Fekete, Aoibheann Brady, Adwaye Rambojun, and Cameron Smith talked to the Chancellor about research ranging from probabilistic simulations of nuclear reactors, to numerical modelling of weather predictions, to machine learning techniques to diagnose psoriatic arthritis.

Congratulations to...

Manuel del Pino, joining the department from the Universidad de Chile, who has been awarded a Royal Society Research Professorship.

Andreas Kyprianou, who received a Royal Society Wolfson Merit Award.

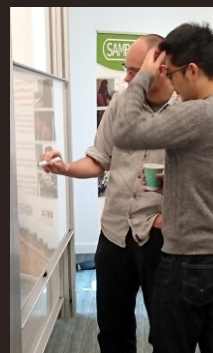
Cécile Mailler on the award of an EPSRC Postdoctoral Fellowship.

Kate Powers from Cohort 2, who won the SIAM prize for best talk at the BAMC.

Juan Carlos Pardo from CIMAT, who will join the department of Mathematical Sciences for a year as the University's David Parkin Visiting Professor.

Gianluca Detommaso, **Robbie Peck**, and **Kate Powers** from Cohort 2, and **Lizzi Pitt** from Cohort 3, who have secured internships with G-Research, Cytel, Cummins Turbo Technologies, and Roche respectively.

Our 3rd "Where's the Maths?" event took place in May and included presenters from the departments of Mechanical Engineering, Computer Science, Civil Engineering, Chemistry, and Biology and Biochemistry. Speakers are challenged to present their research and maths questions using one slide and 3 minutes. There was a great turn out and discussions on ideas for working together continued well after the end of the talks.



The BUC (Bath-UNAM-CIMAT) series continues to grow with the 12th and 13th events having taken place over the last few months. BUC-XII centred on asymptotic and operator-theoretic techniques for the analysis of time-dispersive media and was hosted by the University of Bath and BUC-XIII, hosted by CIMAT, focused on uncertainty quantification.

SAMBa, working with our sister CDT in Sustainable Chemical Technologies, has been awarded funding from the Universities UK Rutherford Fund to host four short term postdoctoral fellows from institutions in Mexico and Brazil. Whilst here, fellows will deliver seminars and take part in SAMBa training activities such as the ITTs. Susie Douglas, who coordinated the SAMBa part of the application commented: "We are excited to host these early-career researchers, who represent the continued growth and reach of SAMBa. The fellows will have unique opportunities to find new collaborators, expand their scientific networks, and enhance the application and impact of their research."

In April, our Aligned student, Hayley Wragg and Centre Manager, Susie Douglas ran the Devizes Half Marathon to raise money for causes close to their hearts. It was great that they both turned up in SAMBa hoodies! You can donate at the links below:

justgiving.com/fundraising/hayleywragg

justgiving.com/fundraising/izyzywizzyletsgetbusy1

Coming up...

- 11th – 15th Jun ITT8
- 18th & 19th Jun SIAM UKIE National Student Chapter Conference
- 25th & 26th Jun SAMBa conference
- 16th – 20th Jul 138th European Study Group with Industry
- 20th – 24th Aug BUC XIV
- 17th – 21st Sep IRCI 2nd meeting, National University of Mongolia
- 24th Sep Cohort 5 arrives
- 3rd & 10th Oct Cohort 4 MRes Transfer Days



Welcome to Caroline Ang who joins us from the University's Research Innovation Services to cover some of the centre manager role on a temporary basis. Caroline brings expertise in international funding and honey badgers to SAMBa.



We've been visiting: Bocconi University (Milan) · Bologna · Breckenridge (Colorado) · The Cabinet Office (London) · Cardiff University · CIMAT · Courant Institute (New York) · ESPCI (Paris) · House of Lords · ICMS (Edinburgh) · IMPA · King's College · Lake Como · London · Newton Institute (Cambridge) · ONS Data Science Campus (Newport) · Peking University · Schlumberger Gould · Sheffield Hallam · Stellenbosch University · University of Birmingham · University of Bristol · University of St Andrews · University of Sussex · University of Warwick · Wood (Dorchester) · WHO (Vienna)

For more details on all these stories and to see how you can get involved, visit the SAMBa website: go.bath.ac.uk/samba



Website: go.bath.ac.uk/samba
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