

SAMBa Newsletter

Issue 9, September 2017



ITT6 delivers collaborative research in sensing and complex flows

Our 6th Integrative Think Tank took place in June with partners being Schlumberger, a multinational oilfield services company, and our first academic partner, the department of Chemical Engineering from the University of Bath. The 70 participants explored problems relating to designing efficient membranes and filters, topography for drilling platforms, and analysing data from water contaminants.

Schlumberger



The ITT itself was driven in large part by our students from cohorts 1 and 2 who, now they are experienced with the model, chaired group discussions, and led research teams. Owen Pembrey, a second year SAMBa student, said: "Being involved with ITT6 was exciting. I was able to work on a project related to my PhD alongside other SAMBa students; assisting them and guiding the project throughout the week. I wouldn't have been able to do this without the training I've had so far in SAMBa".

Schlumberger have committed to funding 3 half PhD projects following the ITT. Collaborative research between students and academics in the departments of Mathematical Sciences and Chemical Engineering is already underway.

Coming up...

- 25th Sep 8th meeting on Generalised Solutions for Nonlinear PDEs
- 26th Sep Cohort 4 arrive
- 4th Oct Cohort 3 Transfer Day 1
- 11th Oct Cohort 3 Transfer Day 2
- 1st Nov Peter's Network – a farewell conference for Peter Mörters
- 27th Nov - 3rd Dec BUC-XI
- Sep - Dec IMI Thematic Semester on Imaging
- 29th Jan - 2nd Feb ITT7

ITT7 takes place in January 2018 with partners from the National Physical Laboratory and the Environment Agency.



Congratulations to...

Jack Betteridge for winning best presentation at University of Bath HPC conference and the runner up poster prize at SciCADE.

Aoibheann Brady and **Andrea Lelli**, awarded £5,500 from University of Bath Alumni Fund to support SAMBa-BMS-WIAS Summer School.

Adwaye Rambojun for a successful application for a 5 month secondment to the National Institute of Informatics, Tokyo.

Ben Robinson on receiving a certificate of recognition for contributions to the Bath SIAM Chapter.

Andreas Kyprianou, **Julie Barnett** and **Susie Douglas** on winning funding from University of Bath International Relations Office to continue collaboration with the National University of Mongolia.

Paul Milewski on becoming Head of Department for Mathematical Sciences.

Euan Spence on the award of an EPSRC Early Career Fellowship.



Website: go.bath.ac.uk/samba
Twitter: @SAMBa_CDT
Email: samba@bath.ac.uk



Engineering and Physical Sciences
Research Council

Showcasing SAMBa research and students

We held our first SAMBa conference in June, organised by students Ben Robinson and Adway Rambojun. Many SAMBa students presented, along with invited speakers from academia and industry. The conference was a fantastic showcase of the breadth of research taking place in SAMBa and the talent of our student cohort.

We were grateful for sponsorship from our partners AstraZeneca, BT, GKN, and



Schlumberger, and the support of the department of Mathematical Sciences. Over 80 people from universities and industrial partners across the UK attended and we received great feedback on the quality of the research and the inclusive atmosphere of the



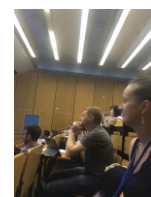
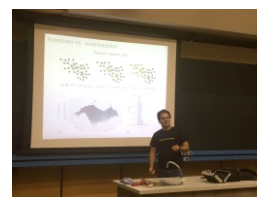
SAMBa experience.

Anja Sturm, from the University of Göttingen, said: "The talks and presentations were excellent and I was particularly taken by the great enthusiasm the students showed for their projects"



We are excited to welcome three new people to the SAMBa core management team. Alex Cox, Melina Freitag and Tim Rogers, all from the Department of Mathematical Sciences, will be joining us to help deliver the SAMBa programme and develop the centre into the future. Apala Majumdar will also be working with us on expanding our internationalisation strategy.

SAMBa jointly hosted our first Summer School in August, in collaboration with the Berlin Mathematical School and the Weierstrass Institute. The focus was on probabilistic and statistical methods for networks and it was delivered through talks and mini courses from international experts. SAMBa, with additional funding from the University of Bath's Alumni Fund, supported the participation of 10 students from SAMBa and the department, including those joining us in 2017.



The BUC (Bath-UNAM-CIMAT) series reached a milestone this summer, delivering its 10th workshop. This was termed BUC X, to both reflect that it was the 10th event and that the University of

Exeter was a partner in the delivery. The focus was on Air Quality and Health and it was hosted by the Institute for Research in Applied Mathematics and Systems (IIMAS) at UNAM in Mexico City. A number of SAMBa students and staff attended in order to run workshops, deliver the student conference, and facilitate research discussions on approaches to approaches to analyse health conditions caused by air pollution.

Blog: blogs.bath.ac.uk/samba/

Video: youtube.com/watch?v=jwQimRAJx6A



We were very pleased to be invited to present SAMBa to Professor Sir Mark Walport, Chief Executive Designate of UK Research and Innovation (UKRI) in July. Sir Mark visited the University of Bath to open our new Architecture and Civil Engineering Building, which may provide the setting for some SAMBa collaborations of the future!



We've been visiting: A Coruña · BT (Ipswich) · Basque Center for Applied Mathematics · Brown University · CIMAT · Chinese Academy of Sciences · Heidelberg University · Institut Henri Poincaré · Met Office · QuintilesIMS (Reading) · Technische Universität Berlin · UCL · UNAM · Université de Liège · Université de Montréal · University of Bristol · University of East Anglia · University of Limerick · University of Oxford · University of Reading · University of Southampton · University of Ulm · University of Washington

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



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