

SAMBa Newsletter

Issue 2, May 2015



UNIVERSITY OF
BATH



First SAMBa ITT formulates mathematical success

We held our first Integrative Think Tank (ITT) during the last week of January and it was a great event with strong attendance from students, academics and our industrial partners, BT and DNV GL. ITTs aim to train students in how to formulate a mathematical problem, addressing challenges presented by the partners. Kevin Minors, one of the student attendees said: "The process of problem formulation was quite fascinating and I really enjoyed watching the industry problems become mathematical ones."

Two PhD projects were identified and these have been developed into studentships, with one part-funded by BT in distributed optimisation of dense 4G communication systems and one part-funded by DNV GL in Bayesian statistical modelling for quantitative risk analysis. The students recruited to these positions will work alongside the SAMBa cohort, attending future ITTs and benefiting from the infrastructure and training provided by SAMBa.

All in all the ITT was a big success and we hope to build on this for ITT2, which is taking place in June and will be attended by EDF and AmecFW. In addition students from another EPSRC-funded CDT, the [London School of Geometry and Number Theory](#), will be attending ITT2 and bringing a new mathematical perspective to the discussions.



Bath IMI The University of Bath has invested in a new Institute of Mathematical Innovation (IMI), which aims to collaborate with researchers across the world, work with companies in every sector, and draw together disciplines across the University. Bath IMI includes a Commercial Research Centre (CRC), which will deliver short-term, high-level projects for industry.

www.bath.ac.uk/imi

Prob-L@B Launch Our world class Probability Laboratory celebrated six years of excellent research and its consequent elevation to a University Research Centre on 26th March. Speakers included SAMBa's Advisory and Monitoring Board Chair, Dr Caroline Colijn from Imperial College London.

bath.ac.uk/research/centres/probability-laboratory/



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EPSRC
Engineering and Physical Sciences
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Visiting México

The SAMBa team visited México as part of a University Delegation in April 2015. We had some extremely fruitful discussions with staff and students at CIMAT in Guanajuato and UNAM in México City and we hope to welcome many of those we met back to Bath in the near future. In addition to a large number of research interactions, we will be returning to CIMAT in November, with SAMBa students, to hold a workshop and conference and we are in the process of setting up agreements with both institutions to facilitate the exchange of students and staff on research visits.

Successful recruitment for 2015

We have recruited 14 first class students for 2015. They bring 7 different nationalities, expertise in dancing, football, leading expeditions, rugby, guitar playing, origami and theatre production as well as a wide-range of mathematics and statistics knowledge. We are already beginning to work with our new cohort and we are excited about welcoming them full time to SAMBa and the University in September.



Math Bio Month

During March, we held a series of seminars and symposia, dedicated to the theme of Mathematical Biology. Speakers included Dr Jason Schweinsberg from the University of California, San Diego and Professor Cindy Greenwood from the University of British Columbia, as well as our very own Dr Ben Adams.

We've been visiting

- CIMAT, Mexico
- Collegio Carlo Alberto, Torino
- ETH, Zurich
- Imperial College London
- MIT, Boston
- IMPA, Brazil
- Spinal Injury Unit, Southport
- UNAM, Mexico
- Universidad de Chile
- University of Cyprus
- University College London
- University of Oxford
- University of Sao Paulo, Brazil



Coming up...

- 1st - 5th Jun** ITT2
- 11th Jun** Advisory and Monitoring Board meeting
- 12th Jun** New students welcome event
- 6th - 10th Jul** CliMathNet conference, Bath

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



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