

SAMBa Newsletter

Issue 10, January 2018



Cohort 4 arrives

Our 4th cohort of students arrived to join SAMBa in September, increasing our total number of students to over 40. A further 5 students have joined the departments of Mathematical Sciences and Mechanical Engineering, undertaking research projects generated from SAMBa ITTs and collaborations, with partners GKN, N12, Airbus, the Environment Agency and Novartis. Their research uses mathematical techniques such as multi-scale methods, machine learning, probabilistic analysis, frequency estimation, and statistical design applied to aerospace component manufacturing, flood risk analysis, and clinical trials.

Coming up ...

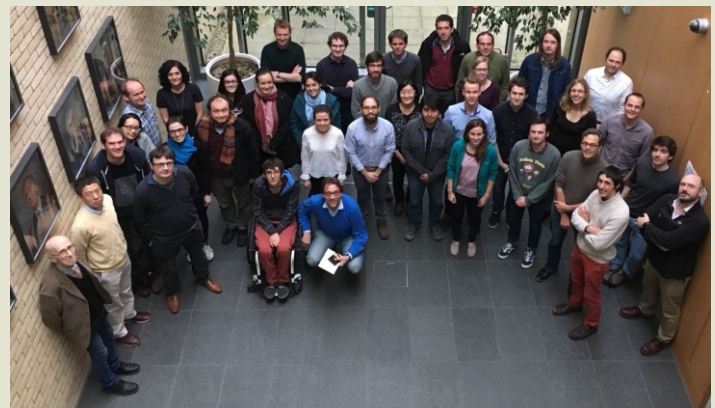
- 22nd Jan Bath-RAL day
- 29th Jan – 2nd Feb ITT7
- 6th Mar Where's the Maths
- 11th – 15th Jun SAMBa 8th Integrative Think Tank
- 18th – 19th Jun SIAM National Student Chapter Conference
- 25th – 26th Jun SAMBa Summer Conference
- 16th – 20th Jul 138th European Study Group with Industry

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

SAMBa Video: [youtube.com/watch?v=jwQimRAJx6A](https://www.youtube.com/watch?v=jwQimRAJx6A)

Goodbye to Peter Mörters

In November, two of our cohort 2 students, Anna Senkevich and Sam Moore organised a wonderful day of talks and discussion to celebrate the 16 years former director of Prob-L@B and head of department of mathematical sciences, Professor Peter Mörters spent at Bath. Peter has recently moved to the University of Cologne, and although we will miss him, he will continue to hold a visiting professorship at Bath and co-supervise, Anna and Sam, as well as one of our cohort 3 students. Speakers and participants travelled from across Europe and the US and Anna and Sam also successfully applied for funding from the IMA to support the conference. Congratulations to them on a great success!





Mathletes re-launch

Mathletes is an outreach group run from the department of mathematical sciences led by Kit Yates, a senior lecturer and SAMBa students Eleanor Barry, Tom Smith, Hayley Wragg and Cameron Smith. After a successful first year with volunteer students taking part in 14 different activities (including school workshops, stalls at The Big Bang Fair in Bristol and the University of Bath 50th Anniversary Celebrations), Mathletes re-launched for 2017-18

with a recruitment event in November attended by over 50 interested students. There will be lots to look forward to this year!



At our MRes Transfer Days in October, our third cohort presented on topics from optimising First in Human trials to fast iterative regularisation methods. The presentations were a fantastic showcase of the quality and range of research taking place in SAMBa and we are very excited about seeing all the results to come.



Welcome to SAMBa

Sarah Hayward is joining us on a temporary basis and will be working particularly on developing our strategy for industrial engagement and impact. Sarah has previously worked in the Centre for Learning and Teaching and the EPSRC Centre for Doctoral Training in Digital Entertainment.

We are very excited that, thanks to our co-Director Paul Milewski and postdoctoral researcher, Carlos Galeano Rios, we have recently helped the University of Bath become the first UK University to sign a full agreement with the Paraguayan funding agency, BECAL. This gives us preferred status as a recipient for postgraduate scholarships for excellent students from Paraguay and we are looking forward to welcoming BECAL-supported students to SAMBa from September.



Congratulations to...

Anna Senkevich and **Sam Moore** for successfully applying for £500 from the IMA Small Grants Fund to support Peter Mörters' farewell conference.

Cohort 3 who graduated from their MRes year.

Ilaria Prosdocimi on the award of a NERC Industrial Innovation Fellowship.

Eike Müller on the award of a Software Sustainability Fellowship.

Paul Milewski and **Karim Anaya-Izquierdo** for the award of funding to work with institutions in Brazil through the University of Bath-FAPESP SPRINT initiative.

Student industry placements



Staff time



Suggest research projects



SAMBa is always looking to build new relationships with prospective external partners and enhance current links. If you have an idea for a potential partner, or would like to talk about working with us, please get in touch with our new industrial manager, Sarah Hayward



We've been visiting: Asilomar Conference Center (California) · Brown University · CIMAT · Erwin Schrödinger International Institute for Mathematics and Physics · ICMS (Edinburgh) · Indian Institute of Technology · London Mathematical Society · National Oceanography Centre · New York University Shanghai · UNAM · Universidad Nacional de Asunción · Universidad de Chile · University of Glasgow · University of Leeds · University of Loughborough · University of Münster · University of Sussex · University of Warwick

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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