

# SAMBa Newsletter

Issue 19, December 2021



We brought together representatives from cohorts 1-8 of SAMBa in December to share their experiences and explore future plans for the centre. It was a really wonderful event, which we were lucky to get in just before stricter restrictions. We are passionate about creating an inclusive environment within SAMBa, and

the department of Mathematical Sciences more broadly and this shone through during the discussion. We hope SAMBa will continue to grow in size and diversity in future, whilst still delivering quality statistical applied mathematics research with impact.

## ITT14 explores mathematics in healthcare and society

Partners at our 14th Integrative Think Tank came from the Royal National Hospital for Rheumatic Diseases and various academic and governmental agencies from Mongolia. The partners presented challenges including using computer vision and big data for longitudinal modelling of psoriatic arthritis; exploring bias and random sampling in disease trajectories; drawing conclusions from modelling the COVID19 spread in Mongolia; and understanding the impact of air pollution on lung-related hospital admissions in Ulaanbaatar. Collaborative work on the challenges is continuing.

As well as some fantastic problem formulation activity during the ITT, participants (including 4-legged companions) collectively walked, cycled and ran from the University of Bath to the Mongolian Embassy in London.

## Coming up ...

**31<sup>st</sup> Jan - 4<sup>th</sup> Feb** ITT15  
**Feb (TBC)** Bath/Warwick Minority Ethnic  
in Maths event  
**16<sup>th</sup> Mar** Where's the Maths?  
**13<sup>th</sup> - 17<sup>th</sup> Jun** ITT16



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**EPSRC**  
Engineering and Physical Sciences  
Research Council



## Where are they now?

**Aoibheann Brady, cohort 2, finished SAMBa October 2019**

What are you doing now?

I'm a Research Associate in Spatial Statistics on the GlobalMass project in the University of Bristol. My work involves the development of a Bayesian spatiotemporal framework to accurately separate observations of sea level rise into their component geophysical processes.

What are you enjoying the most about it?

Being able to use my experience to answer meaningful and relevant questions about climate change, working with a variety of climate experts and the variety of the work.

What are you planning to do next?

I'm going into industry, starting a research role with a climate start-up called Cervest.

What do you miss most about SAMBa?

The people - particularly the coffee chats - and the random events and opportunities that always seemingly sprung out of nowhere!

What was the most fun thing you did whilst in SAMBa?

There's too many times to list - but visiting Mongolia to teach statistics (twice!) was an amazing experience that I'd never have had otherwise.

Our 5th SAMBa conference was expertly delivered in hybrid form by four cohort 6 students in July. There were presentations from the current cohort and invited external speakers on a range of topics within statistical applied mathematics. The atmosphere was fantastic and it was a great showcase for the excellent research being delivered within SAMBa.



## Congratulations to...

**Shaerdan Shataer, Lizzi Pitt, Kate Powers, Tom Finn, Allen Hart, Tsogzolmaa Saizmaa, Matt Griffith, Alice Callegaro, Abigail Burdon** who passed PhD vivas.

**Laura Oporto Lisboa** and **Shahzeb Raja Noureen** who secured secondments through the UKRI Policy Internships scheme and Joint Biosecurity Centre, respectively.

**Adwaye Rambojun**, awarded a postdoctoral impact acceleration award.

**Margaret Duff** and **Eileen Russell** who won best talk and best poster prizes at the SAMBa Conference.

**Tosin Babasola** who was recognised by the Heidelberg Laureate forum.

**Rosa Kowalewski** and **Tosin Babasola**, awarded Kovalevskaya Travel Grants from ICM2022.

**Cecilie Andersen**, selected for the world orienteering championships.

**Lizzi Pitt**, who cycled from John O'Groats to Land's End for MS Research.

**Theresa Smith** who was awarded a Royal Society Short Industry Fellowship.

**Chris Budd**, awarded the Vice-Chancellor's Research Medal.

All of **cohort 7** who passed their MRes year.



## Santander Universities

Along with the ART-AI and AAPS CDTs, and with financial support from Santander UK, we have launched applications for the second round of summer research experience projects for Bath undergraduates of female and under-represented gender identities.

Follow this link to find out more, and apply:  
<https://www.bath.ac.uk/campaigns/santander-undergraduate-research-experience-2022/>

**We've been visiting:** Courant Institute New York · ETH Zurich · Free University of Berlin · Institut des Hautes Etudes Scientifiques (IHES) · Isaac Newton Institute · Las Palmas de Gran Canaria · Marseille · Sorbonne University · Universiteit van Amsterdam · University of Konstanz

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



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