

# School of Mathematics and Statistics Newsletter

September 2021



## ***Congratulations ...***

- to Hannah Worthington and Adam who were married in August. They are incredibly thankful that they didn't have to rearrange the wedding - it was still their original date and timed to perfection for the Saturday after restrictions were lifted.
- to Jon Fraser and Rayna on the birth of their second son, Reuben Samuel Fraser, on 23rd August.



*Left: Hannah and Adam*

*Right: Reuben Samuel*

## ***Welcome ...***

- to our new PhD students starting this autumn: *Solar Theory*: Elisabeth Enerhaug; *Mathematical Biology*: Dimitrios Katsaounis, Kairui Li; *Algebra and Combinatorics*: Reinis Cirpons, Pilar Duque, Victoria Ironmonger, Jiaping Lu, Peiran Wu; *Analysis*: Boyuan Zhao; *Statistical Ecology*: Yan Ru Choo; *History of Mathematics*: Kate Hindle, David Horowitz. We look forward to meeting our new postgraduates in person very soon.

## ***Farewell ...***

- to Alex Prokopyszyn, who has started work at the Culham Science Centre, near Abingdon in Oxfordshire. Alex came to St Andrews as an undergraduate in 2014 and went on to do a PhD on MHD theory and a postdoc with the Solar Group.
- to Stuart Burrell, who is moving to Cambridge to take an MPhil in Machine Learning and Machine Intelligence. Stuart took his MMath degree in St Andrews, continuing to a PhD and a postdoc position with the Analysis Group.

## ***Activities - Virtual or Otherwise***

- Sophie Huczynska made a research visit to London to work with Maura Paterson from Birkbeck, University of London, from 29th-31st August, funded by the *LMS Research in Pairs* scheme.

- The conference *Geometric Measure Theory and Applications* took place from 30th August-3rd September, in Cortona, near Perugia in Italy. Many participants attended in person, in a room at Il Palazzone di Cortona with its walls covered with spectacular renaissance paintings. Kenneth Falconer gave an invited talk on ‘Intermediate Dimensions’, sadly virtually, with his online presentation projected onto a screen in the room.



- Valentin Popov attended in person the *Royal Statistical Society Conference* held in Manchester from 6-9th September where he gave a Rapid Fire talk titled ‘Modelling fin whales’ diving behaviour using hidden Markov models’.
- On 31st August, Steve Buckland gave a (virtual) presentation on monitoring the biodiversity of regions at the *Workshop on Species and Multi-Species Indices: State of the Art in Switzerland and Beyond*.
- Rosemary Bailey attended (virtually) the *LinStat 2020 (International Conference on Trends and Perspectives in Linear Statistical Inference)* meeting from 30th August-3rd September 2021. This conference had originally been arranged to take place in the High Tatras in Slovakia in June-July 2020, but was deferred because of the pandemic. Rosemary was the organiser of invited sessions on the Design and Analysis of Experiments.
- David Rees Jones gave a talk entitled ‘Channelized flow in the partially molten upper mantle’ in the Geophysical Flows section of the *UK Fluids Conference 2021* held online on 8-10th September.
- Several members of the Solar and Magnetospheric Theory Group took part in the ‘virtual’ *16th European Solar Physics Meeting (ESPM-16)* from 6-10th September. The three-yearly meeting, had originally been planned to be held in Torino, Italy, in September 2020. There was no conference fee, resulting in 632 registered participants and about 400 presentations. ‘Poster presentations’, which were replaced by 7 minute talks, were given by Vasilis Archontis, Ineke De Moortel, Lianne Fyfe, Tom Howson, and Callan Noble. Jack Reid gave a contributed talk and Eric Priest delivered the European Solar Physics Division Senior Prize Lecture. Harry Callingham and Thomas Neukirch also attended the meeting.

### ***Other News***

- Nik Ruskuc has been awarded a small grant from the EPSRC and the Heilbronn Institute to support his collaboration with Peter Mayr from University of Colorado at Boulder on subdirect products in algebra.

### ***Next Issue***

- The next edition of the School Newsletter will be circulated in October. Items for inclusion may be sent to [maths-news@st-andrews.ac.uk](mailto:maths-news@st-andrews.ac.uk) at any time but a reminder will be sent out a week before the deadline.