



# Annual Report (2021)

University of Nottingham  
SIAM & IMA Student Chapter



We started our year with a new committee in January 2021 and have since run a very successful seminar series, consisting of both internal and external speakers. It was mostly attended by PhD students and staff here in Mathematical Sciences at the University of Nottingham, as well as students from Engineering and a few students from other student chapters in the UK. We of course had to hold our events online, but this had the unexpected benefit of being able to invite speakers from much further afield than usual.

It was our pleasure to host six distinguished speakers talk about their research in our seminar series:

- **Dr Hannah Christensen, University of Oxford:** Stochastic modelling for weather and climate prediction
- **Prof Paolo Zunino, Politecnico di Milano:** Multiscale approaches for heart perfusion
- **Dr Elizabeth Hunke, Los Alamos National Laboratory:** Modeling sea-ice for climate research and short-term forecasting
- **Dr Reuben O'Dea, University of Nottingham:** Multiscale and multiphase models of tissue growth, remodelling and mechanics
- **Dr Martin Richter, University of Nottingham:** Convergence properties of dynamical energy analysis — A ray-based method used transfer operators
- **Prof June Barrow-Green, Open University:** Mathematicians at war

It was fantastic to hear talks from so many topics in applied mathematics, and even a talk about mathematics from a historical point-of-view from Prof Barrow-Green.

We also hosted a PhD Student Showcase, where members of the student chapter had an opportunity to present in 10-, 15-, 20-, or 25-minute talks with 5 minutes allowed for questions. This was especially useful for those students preparing for their second-year talks, which forms part of the assessment for their PhD progression, as well as those students preparing to present their work at conferences.

In October 2021, we're hoping to organise an Olympiad-style maths competition for undergraduate and postgraduate students here at the university. And we're also hoping to soon resume our regular film nights where we have previously watched films such as *The Imitation Game*, *The Man Who Knew Infinity*, and *Hidden Figures*. The regular seminar series will also continue in the new academic year, hopefully in a face-to-face format.

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