

RAMP Outreach Innovation Awards & SBIDER Podcast Hub

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Newton Gateway to Mathematics

Events

Modelling Behaviour to Inform Policy for Pandemics

> Organisers

> Programme

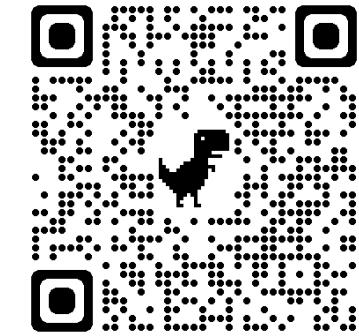
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 JUNIPER

Modelling Behaviour to Inform Policy for Pandemics



Tuesday 2nd November 2021 to Friday 5th November 2021



Understanding Behaviours

Tuesday 2nd November 2021, 13.30-16.30

This workshop overviewed relevant behavioural frameworks that may be used to describe our behaviour to public health events. It also presented analyses of pre-pandemic and contemporary datasets that capture behavioural characteristics, highlighting challenges in translating different types of data flows into meaningful framings for modelling.

Integrating Behaviours into Models

Thursday 4th November 2021, 13.30-16.30

Our second workshop showcased examples of mechanistic modelling frameworks that interface with behavioural dynamics, which can be responsive to control policy, perceived risk and individual heterogeneity.

Using Behavioural Models to Inform Policy

Friday 5th November 2021, 13.30-16.30

Detailed, well-parameterised mathematical models are important to aid planning and policy decisions. The event series concluded with a focus on how modelling used in the COVID-19 policy arena has sought to tackle challenges posed by COVID-19 pandemic interventions having impacted on all aspects of society, with a need to mitigate harms across multiple sectors.

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Behaviour and Policy During Pandemics: Models and Methods



Tuesday 22nd February 2022

Background

Over the course of the COVID-19 pandemic, modelling has taken centre stage both in forecasting, policy formulation and in informing the public, featuring prominently in the advice given to government in the UK and beyond. The pandemic has had profound influence on social and economic activity, meaning that different policy interventions such as lockdowns and furlough schemes cannot be seen as merely public health policies or as economic policies in isolation. It is therefore important to better understand how policies interact through intertwined economic and disease dynamics and how different policies must be designed to work together.



RAMP Outreach Innovation Awards

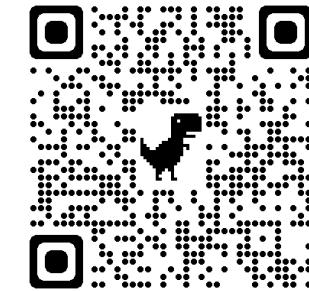
- Awards of up to £5,000 made available for Early Career Researchers based in the UK in the field of infectious disease modelling.
- Undertake projects with a significant outreach component - include communication of infectious disease modelling concepts to the general public and/or the wider scientific community.

An application process led by Dr Robin Thompson, Professor Chris Budd and Professor Mike Cates took place in March 2022 and we are delighted to announce that 8 projects are now being taken forward.

Updates will be available as the projects are completed when the Grant closes in July 2022.

Successful applicants were:

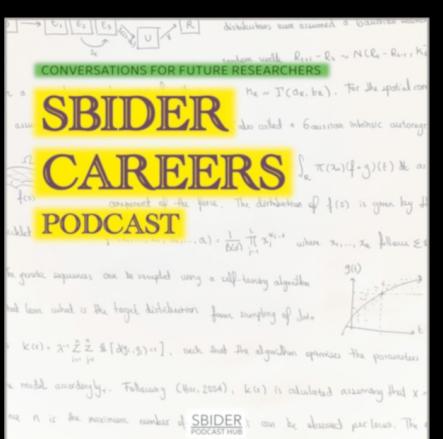
Dr Kaustubh Adhikari	Open University
Dr Rebecca Baggaley	University of Leicester
Dr Ruth Bowness	University of Bath
Dr Emma Davis	University of Oxford
Dr Joshua Finneran	University of Cambridge
Professor David Gavaghan & Dr Ben Lambert	University of Oxford & University of Exeter
Dr Edward Hill & Dr Laura Guzmán Rincón	University of Warwick
Dr Qingyao Qiao	University of Manchester



SBIDER Podcast Hub

Welcome to SBIDER Presents!

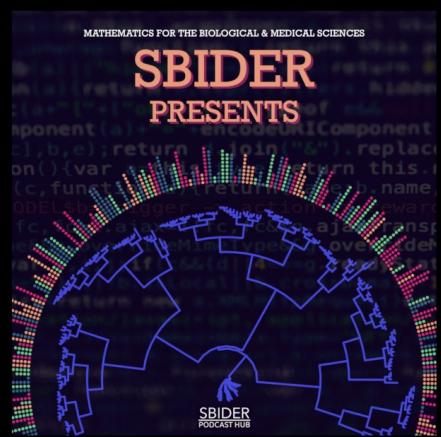
In our podcast, we interview @WarwickSBIDER researchers about their work in the biological & medical sciences.



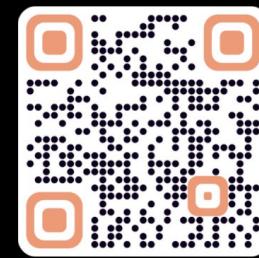
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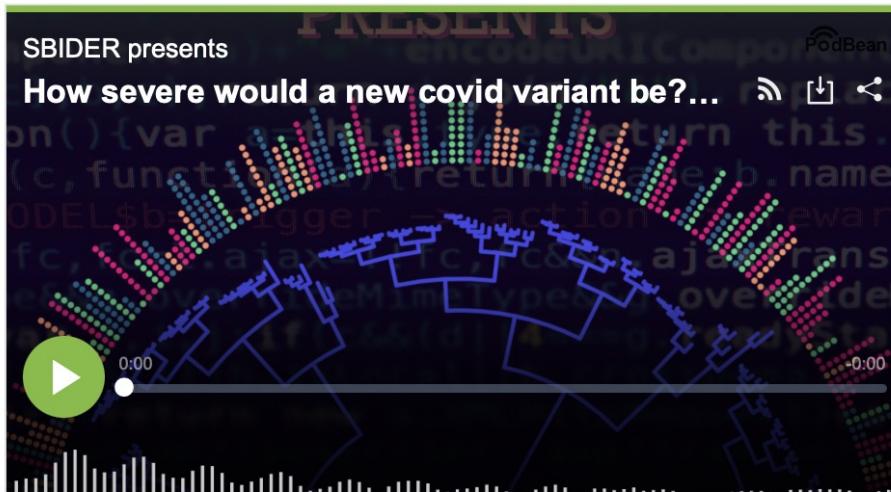


What are the paths to a research career in epidemiology and infectious disease modelling? What are the day-to-day tasks?

Welcome to **SBIDER Careers!**
In our **podcast**, we seek insights on these questions and more.

SBIDER Presents Podcast

Episode 1: How severe would a new COVID variant be? | Louise Dyson



Episode 2:

How have humans adapted to combat malaria parasites? | Bridget Penman



SBIDER Presents Podcast

Episode 6: Avian influenza | An international perspective



SBIDER Careers Podcast



Episode 3:
Project manager & administrator | Sukhwinder Soggi



Episode 4:
Systems administrator & scientific programmer | Paul Brown



Episode 5:
Director of SBIDER | Matt Keeling

Engaging the next generation

Episode 6: PhD study & MathSys CDT | Phoebe Asplin & Melissa Iacovidou



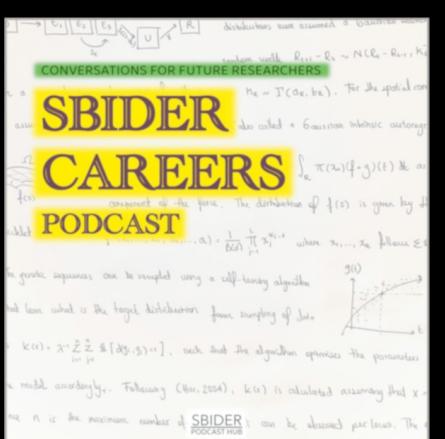
Episode 8: Research Associate | Sam Sutherland



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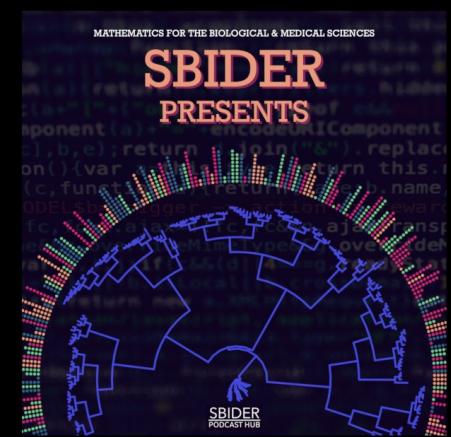
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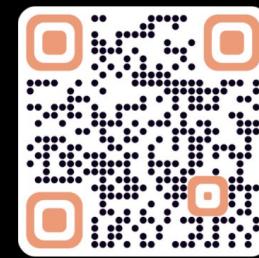
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