

Royal Statistical Society Special Topic Meeting on R/local R/transmission

9th and 11th June 2021

Following the tradition of Royal Statistical Society Discussion (aka “read Paper”) meetings, each session will consist of paper presentations, invited discussion contributions, and open discussion. Contributors to the discussion may speak for a maximum of 5 minutes at the meeting and should provide a written version their comments, with maximum length 400 words. Contributions to the open discussion can also be sent after the meeting, provided they are received by 5pm UK time, Monday 21th June. The papers, invited and open discussion contributions, and the authors’ replies to the discussion, will form the Proceedings, which will be published electronically, in a citable form under the Society’s banner.

In the limited time available for the open discussion, colleagues who have given prior notice of their wish to speak will be given priority. Potential contributors should contact Jonathan Everett (j.everett@rss.org.uk) before 9th June, indicating at which session they wish to speak.

All papers are available in near-final form [here](#).

Session 1 Wednesday 9th June 15.00-17.00

Meeting id: https://teams.microsoft.com/l/meetup-join/19%3ameeting_M2QzOTAzZGYtN2E1MC00ThmLWlxZGltZWQwMzZmYmE2ODky%40thread.v2/0?context=%7b%22Tid%22%3a%22d7af58d0-d14d-4a14-b333-3d6d769ced80%22%2c%22Oid%22%3a%225685274e-8063-4b82-8367-5e592f9574c2%22%7d

15.00. Kris V. Parag, Robin N. Thompson, Christl A. Donnelly

Are epidemic growth rates more informative than reproduction numbers?

15.15. Nicholas Jewell and Joe Lewnard

On the use of the reproduction number for SARS-CoV-2: Estimation, misinterpretations, and relationships with other ecological measures

15.30. Luc E. Coffeng, Sake J. de Vlas

Predicting epidemics and the impact of interventions in heterogeneous settings: standard SEIR models are too pessimistic

15.45 Invited discussants: Justin Lessler, Phil O’Neil, John Kingman

16.15 Open discussion

Session 2 Friday 11 June 11.00-12.30

Meeting id: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmVjYjkzZmQtNjgzYS00MWM5LWFjZWYtZGEzOWM2NzlmMDAz%40thread.v2/0?context=%7b%22Tid%22%3a%22d7af58d0-d14d-4a14-b333-3d6d769ced80%22%2c%22Oid%22%3a%225685274e-8063-4b82-8367-5e592f9574c2%22%7d

11.00. Yee Whye Teh, Avishkar Bhoopchand, Peter Diggle, Bryn Elesedy, Bobby He, Michael Hutchinson, Ulrich Paquet, Jonathan Read, Nenad Tomasev, Sheheryar Zaidi

Efficient Bayesian Inference of Instantaneous Reproduction Numbers at Fine Spatial Scales, with an Application to Mapping and Nowcasting the Covid-19 Epidemic in British Local Authorities

11.15. Swapnil Mishra, Jamie Scott, Harrison Zhu, Neil M. Ferguson, Samir Bhatt, Seth Flaxman, Axel Gandy

A COVID-19 Model for Local Authorities of the United Kingdom

11.30. *Invited discussants:* Gavin Gibson, Guy Nason

11.50. *Open discussion*

Session 3 Friday 11 June 14.00-16.00

Meeting id: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmExMTMyMjgtNmJkOS00M2JmLWE2ZTgtMGY3M2Y4NzMzMzBI%40thread.v2/0?context=%7b%22Tid%22%3a%22d7af58d0-d14d-4a14-b333-3d6d769ced80%22%2c%22Oid%22%3a%225685274e-8063-4b82-8367-5e592f9574c2%22%7d

14.00. Lorenzo Pellis, Paul Birrell, Joshua Blake, JUNIPER consortium, Daniela De Angelis
Estimation of the effective reproduction number in real-time: conceptual and statistical challenges

14.15. Josie Park, Luke Bevan, Ioannis Melas, Robert Moore, Herald Voehringer, Christopher Slattery, Arinze Akutekwe, David Wilby, Dmitry Semashkov, Tony Ward, Ross Burton, Jasmina Panovska-Griffiths and James Hetherington on behalf of the Modelling Ensemble Team, Joint Biosecurity Centre
Combining reproduction number and growth rates across an epidemiological Multi-Model Ensemble

14.30. *Invited discussants:* Adam Kucharski, Gianpaolo Scalia Tomba

14.50. *Open discussion*