

# Biomathematics Day at the University of Helsinki

## 10 May 2023

online format, all times in Finland (BST+2h)

9.00 – 9.15 Opening coffee: join zoom, set up, say hello to friends. Coffee from your own machine, the brand you like most :). We start the program at 9.15 without waiting for latecomers.

9.15 – 10.00 **Tadeas Priklopil:** On the interpretation of the operation of natural selection in class-structured populations

10.00 – 10.30 **Lasse Leskelä:** Optimal intervention strategies for minimizing total incidence during an epidemic

10.30 – 11.00 BREAK

11.00 – 11.30 **Yuhua Cai:** Geometric singular perturbation theory in evolutionary studies

11.30 – 12.00 **Ruili Fan:** A mathematical approach to optimal healthcare intervention integrating infection control and pathogen evolution

12.00 – 13.30 BREAK

13.30 – 14.00 **Kalle Parvinen:** Evolution of dispersal under spatio-temporal heterogeneity

14.00 – 14.30 **Anna Suomenrinne-Nordvik:** Quantifying indirect and direct effectiveness of the COVID-19 vaccination program against the delta variant in Finland

14.30 – 15.00 BREAK

15.00 – 15.30 **Miko Karjalainen:** A predator-prey model with Allee effect on the predator

15.30 – 16.00 **Johannes Lintula:** Deep learning and population dynamics

The lectures are recorded/not recorded as the speaker wishes. Recorded lectures will be available via Unitube (<https://www.helsinki.fi/fi/ajankohtaista/unitube>).

### PARTICIPANT LIST

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