

# NordicMathCovid Oslo Workshop 2023

February 6 - 8, 2023

## Venue:

Hotel Soria Moria ([www.soriamoria.no](http://www.soriamoria.no))

Voksenkollveien 60, 0790 Oslo.

## Program:

### Monday (Feb 6, 2023)

12:00-13:00 **Lunch**

13:00 **Welcome words by Arnaldo**

13:15 **Research talks**

- Kaare Græsbøll (SSI): *Reduce model complexity with individual based models. Case: Effectiveness of mass testing and local lockdowns during the Sars-CoV-2 alpha wave in Denmark*
- Rasmus Skytte Randløv (SSI): *Evaluating the official Danish covid-19 modelling effort*
- Hao Chi Kiang (Linköping Uni.): *Summarizing Global SARS-CoV-2 Geographical Spread by Phylogenetic Multitype Branching Models*

15:00-15:30 **Coffee break**

15:30-16:30 **Research talks**

- Felix Günther (SU): *Effect of behavior and seasonality on the transmissibility of SARS-CoV-2*
- Krzysztof Bartoszek (Linköping Uni.): *Comparing covid19 related curves from Poland, Sweden, Czech Rep. and/or on SIR models with control*

**16:30-17:30 Discussion:** Introductory talk by Gunnar Rø (FHI, Norway)

*What have we learned during real-time modeling of the SARS-CoV-2 pandemic? What were the most useful data sets and most important aspects that had to be accounted for in modeling that might not have been obvious in the beginning? Methodological challenges that are still unsolved?*

19:00 **Dinner**

### Tuesday (Feb 7, 2023)

9:00-10:30 **Research talks**

- Mohamed El Khalifi (SU): *Gradual waning of individual immunity to infection*
- Lasse Engbo Christiansen (SSI): *Reflections on waning immunity and coexistence of lineages*
- Tom Britton (SU): *Semi-directed networks and their relation to epidemic models*

10:30-11:00 **Coffee break**

11:00-12:00 **Research talks**

- Dongni Zhang (SU): *Epidemic models with manual and digital contact tracing*
- Karimi Rizi Abbas (SU): *Epidemic Spreading and Contact Tracing On Clique Networks*

12:00-13:00 **Lunch**

13:00-14:30 **Discussion:** Introductory talk by Lisa Brouwers (FHM, Sweden)

*If a new (potentially different) pandemic takes off. What are the most urgent questions for modelers and statisticians to address? What will be the role of academic researchers and public health agencies, respectively? Are we better prepared after the SARS-CoV-2 pandemic compared to before? Are there questions where a Nordic collaborative analysis would be profitable?*

14:30-15:30 **Coffee and time for small-group discussions**

**Afternoon/Evening program:**

16:00-19:00: Guided tour at Akershus Fortress, at 17:00. Bus from the hotel and back (exact time will be informed later). Dress warm, the tour will take place outside.

20:00 **Dinner**

**Wednesday** (Feb 8, 2023)

9:00-10:30 **Pan-nordic model**

- Mikhail Shubin (THL): *Brief Intro*
- Hilde Kjelgaard Brustad (UiO): *Mobility data*
- Mikhail Shubin (THL): *Current state/results*
- Jørgen Eriksson Midtbø (FHI): *Disentangling commuters from other traffic in public road data*

10:30-11:00 **Coffee break**

11:00-12:00 **Discussion:** *The future of NordicMathCovid*

12:00-13:00 **Lunch**

End of meeting