



Welcome to **SWIM**, the South-West German Infectious Disease Modelling Workshop.

📍 Institute of Statistics (room 320), Karlsruhe Institute of Technology,
Blücherstraße 17, 76185 Karlsruhe.

🕒 Wednesday 4 December 2024, 10:00 - 17:15.

🔗 <https://swim.codeberg.page/>

Programme

10:00 – 10:30 Registration & coffee

10:30 – 10:40 Welcome by the organizers

10:40 – 11:20 Keynote 1 (Chair: Johannes Bracher, Karlsruhe Institute of Technology)

Martin Eichner (University of Tübingen): *Extending the SIR model.*

11:30 – 12:10 Session 1 (Chair: Friederike Becker, Karlsruhe Institute of Technology)

Marvin Schulte (Fraunhofer ITWM, Kaiserslautern): *An epidemiological model with stochastic appearance of mutations.*

Clemens Kreutz (University of Freiburg): *Improving data-driven dynamic modelling.*

12:10 – 13:30 Group photo + lunch

13:30 – 14:30 Session 2 (Chair: Tim Litwin, University of Freiburg)

Nguyễn Văn Kính (Heidelberg University): *A richly parameterized HIV/AIDS model with spatio-temporal data.*

Barbora Sobolová (Karlsruhe Institute of Technology): *Probabilistic nowcasting of infectious diseases.*

Manuel Stapper (London School of Hygiene and Tropical Medicine): *Fine grid spatial interaction matrices for surveillance models.*

14:40 – 15:20 Keynote 2 (Chair: Barbora Sobolová, Karlsruhe Institute of Technology)

Joachim Rocklöv (Heidelberg University): *Climate-sensitive infectious disease modelling.*

15:20 – 16:20 Poster session / coffee break

16:20 – 17:00 Session 3 (Chair: Luise Nottmeyer, Heidelberg University)

Pratik Singh (Heidelberg University): *Isolating the impact of climate change on expansion of Aedes Albopictus in Europe.*

Tjibbe Donker (University of Freiburg): *Estimating increases in reproduction number from changes in pathogen genetic population structure.*

17:00 – 17:15 Closing

18.00 – 20.00 Dinner (at own expense, see details on next page).

Posters

The poster session is held in the atrium (ground floor). Flip charts and magnets are available for installation.

1. Friederike Becker (Karlsruhe Institute of Technology): *Influence of ensemble size and composition on performance of combined COVID-19 forecasts.*
2. Johannes Bracher (Karlsruhe Institute of Technology): *Why are different estimates of the effective reproductive number so different?*
3. Julian Heidecke (Heidelberg University): *West Nile virus: Tracking temperature suitability in Europe and beyond*
4. Tim Litwin (University of Freiburg): *Agent-based modelling of COVID-19 surveillance test strategies.*
5. Daniel Wolffram (Karlsruhe Institute of Technology): *Collaborative nowcasting of COVID-19 hospitalization incidences in Germany.*

Internet access

Internet access via eduroam and KA-WLAN (<https://www.ka-wlan.de/>) is available throughout the building.

Lunch

Lunch is free of charge for registered participants and takes place on the ground floor. Note that we would like to take a group picture at the beginning of the lunch break. Joining the group photo is of course voluntary.

Dinner

As only few participants expressed interest in staying for dinner, we did not reserve tables. In case a small group of people are up for dinner spontaneously, we suggest to go to Restaurant Sokrates, Welfenstraße 18, 76137 Karlsruhe.

Getting to the restaurant: Straßenbahn 3 from Yorckstraße to Kolpingplatz, then 3 minutes by foot.

Getting from the restaurant to Karlsruhe main station: The station is in walking distance (~ 15 minutes).

Organizers: Johannes Bracher (johannes.bracher@kit.edu), Barbora Sobolová (barbora.sobolova@kit.edu),
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Funded by



Deutsche
Forschungsgemeinschaft
German Research Foundation