

## **Melanie Schienle**

Professor of Statistical Methods and Econometrics, Institute of Statistics,  
Karlsruhe Institute of Technology (KIT)

### **Collaborative Now- and Forecasting of Respiratory Diseases in Real Time**

Multi-model approaches for probabilistic now- and forecasting of infectious diseases have proven beneficial during seasonal and emerging epidemics. This has led to the introduction of forecast hubs as collaborative platforms that systematically gather, evaluate, and combine now- and forecasts in real-time. These hubs have served as a tool for research in the public domain with impact on public situational awareness and planning.

I will present ongoing collaborative efforts for multiple respiratory disease now- and forecasting and discuss challenges and lessons learned from prospective studies of similar projects during the COVID-19 pandemic. Key topics include the quantification of uncertainty, the evaluation, and the combination of probabilistic now- and forecasts and limits of predictability.