Kolloquium „Statistische Methoden in der empirischen Forschung“

Wann: 28. Oktober 2025, 17:00 – 18:30 Uhr

Wo: Campus Charité Mitte, Raum 02.002, Virchowweg 10, 10117 Berlin

Online-Übertragung: der Link wird auf der Website zur Verfügung gestellt

Vortragssprache: Englisch

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Analysis of human mobility via mining of individual GPS trajectories

Mining massive data on human mobility allows for unprecedented insights into the contacts patterns of individuals. This allows the forecasting of the respiratory diseases such as Covid-19. In the present talk we report on two epidemiological use case of individual GPS trajectories of 1% of the population in Germany. The first use case allows to disentangle biological and social components, and thus early detect and estimate transmissibility of new virus variants as well as assess immune status of the population after vaccination campaigns, given an independent measurement of human contacts and incidence. The second use case concerns detailed assessment of human contacts during mass gathering event, such as soccer games, concert and festivals.