

## **Kolloquium „Statistische Methoden in der empirischen Forschung“**

Wann: 23. Oktober 2018, 17:00 – 18:30 Uhr

Wo: Robert Koch-Institut | Nordufer 20 | 13353 Berlin (Wedding),  
S41, S42, U9 Westhafen | U9, Bus 142 Amrumer Str

**Robert Opitz (Bundesinstitut für Risikobewertung, Berlin)**

### **Machine Learning zur Untersuchung von Antibiotikaresistenzen**

The assessment of risk factors in antibiotic resistance relies too often on the application of generalized linear models.

We want to reassess the data analysis strategy on this field by investigating the methods of supervised learning (aka Machine Learning).

We show, how these methods can be fruitfully applied, by giving a specific example on an AMR data set. This includes model selection, estimating feature importance, and probability prediction.