

Kolloquium „Statistische Methoden in der empirischen Forschung“

Wann: 20. Januar 2026, 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

Jan Priel (Cytel)

Use of Bayesian Predictive Distributions in Clinical Trials

This talk will briefly review key definitions of Bayesian posterior and predictive distributions and then present a selection of case studies spanning neurology, cardiovascular disease, and pain management. Across these examples, I will illustrate how predictive probabilities were used in decision-making at different stages of clinical development, including early go/no-go assessments, interim adaptation and the evaluation of the probability of meeting clinical trial success. Emphasis will be placed on uncertainty quantification, modeling choices, and clear communication of results to clinical and cross-functional stakeholders.