

## Bayesian data analysis using brms

With Bruno Nicenboim (Department of Linguistics, University of Potsdam)

A Bayesian analysis workshop, offered by the *SFB 1252 Prominence in Language* at the University of Cologne. This 2-day workshop will provide a relatively accessible and technically non-demanding introduction to the basic workflow for fitting different kinds of linear models using a powerful front-end R package for Stan called *brms*.

**Location:** Seminar room, Institut für Linguistik – Phonetik, Herbert-Lewin-Straße 6, Köln.

**Time:** October 24-25, 09:00-17:00 (+ prep-session on October 22, 14:00-16:00)

Please see preparation and registration details the following link (registration is free!):

<https://tinyurl.com/y3lqx7by>

	Thursday (October 24th)	Friday (October 25th)
Session 1: 09:00-10:30	Review of probability distributions, introduction to Bayes	Hierarchical models + Exercises
Coffee break		
Session 2: 11:00-12:30	Introduction to the brms package	General linear models + Exercises
Lunch break*		
Session 3: 14:00-15:30	Linear models, priors and posterior predictive checks + Exercises	Model comparison using Bayes factor
Coffee break		
Session 4: 16:00-17:00	Hierarchical ( <b>or mixed</b> ) models	Model comparison using Bayes factor + Exercises

\* Lunch will not be provided