Cognitive Science Colloquium

Winter term 2025/2026
Tuesday, 12.15 – 13.15 h; Lecture Hall 24, Kupferbau

When	What
Tuesday, 25.11.2025 12.15 – 13.15	**Dr. Maren Mayer (IWM Tübingen): Sequential Collaboration: An Empirical and Cognitive Modeling Approach to Aggregating Dependent Individual Judgments**
	Online collaborative projects such as Wikipedia and OpenStreetMap typically use sequential collaboration to gather information. Thereby, one contributor starts a sequential chain by creating an entry which can subsequently be adjusted or maintained by following contributors. This process has recently been adapted to numerical judgment aggregation showing that judgments are changed less, while simultaneously becoming more accurate over a sequential chain resulting in at least similar accurate judgments as obtained by an unweighted aggregate (wisdom of crowds). Sequential collaboration allows contributors to implicitly weight their individual judgments by expertise. Moreover, contributors in sequential collaboration seem widely unaffected by information about previous contributors, but adapt their behavior to information about the sequential chain. To strengthen the theoretical framework of sequential collaboration, we combined these findings to generate a mathematical model of sequential collaboration. The model encompasses both sequential collaboration and independent judgments, which serve both as starters for sequential chains and benchmarks for judgment accuracy. The model was further extended showing that both the possibility not to provide a judgment and the sequential judgment process contribute to the accuracy of judgments in sequential collaboration. Implications for sequential collaboration in particular and dependent-judgment paradigms in general as well as future research avenues are discussed.

Host: Sascha Meyen and Volker Franz

Organisation: Bettina Rolke and Volker Franz

Welcome to everybody!