(non-)Bayesian Informative Hypothesis Evaluation using JASP and R

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During this two-hour hands-on tutorial, you will be introduced to null, alternative, and informative hypotheses. Subsequently, you will learn how you can evaluate theory-based, informative hypotheses. I will discuss both a Bayesian approach (using Bayes factors and posterior model probabilities) and an approach using AIC-type information criteria (more specifically, the GORIC and GORICA). This tutorial will completely be based on examples and concepts, formulas will not be used. The end of this tutorial will be used to give you the experience that you can execute what is being taught using the statistical software JASP.

To be able to participate in the hands-on part of this tutorial, you need to prepare by:

* Installing the latest version of JASP on your laptop.

For those experienced in R: There will be lab material for R as well.

* Via <https://github.com/rebeccakuiper/EMLaR---Informative-Hypothesis-Evaluation>, you can download the materials that will be used during this tutorial (it will be up to date on April 14 or sooner).

After attending this tutorial, you will be able to use JASP (or R) for the evaluation of informative hypotheses in the context of ANOVA’s, which is an excellent starting point for the evaluation of informative hypotheses in the context of other statistical models.