UNIVERSITY OF PADOVA

Beyond $p < .05$
Modern statistical approaches
in psychological science

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School abstract - Eric-Jan Wagenmakers

Bayesian data analysis with JASP

Bayesian data analysis presents an attractive alternative to p-value hypothesis testing. Despite its advantages - such as the ability to quantify evidence, and the ability to monitor and update this evidence as data come in - Bayesian analyses are still conducted relatively rarely, and the p-value has remained the dominant method to draw conclusions from data. An important impediment to the widespread adoption of Bayesian data analysis is arguably the lack of user-friendly software for the run-of-the-mill statistical problems that confront empiricists almost every day: the t-test, ANOVA, correlation, regression, and contingency tables. Here I demonstrate JASP (http://www.jasp-stats.org), an open-source, cross-platform, user-friendly graphical software package that allows users to conduct Bayesian data analysis for standard statistical problems. Armed with JASP, the practical advantages of Bayesian inference are only a mouse click away.