

Cognitive Psychology Laboratory, Department of Psychology,  
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## Prof. Zoltan Dienes

### BIOGRAPHICAL SKETCH

Zoltan Dienes is Professor of Psychology at the School of Psychology and the Sackler Centre for Consciousness Science at the University of Sussex. His main areas of publication, with over 150 papers, are consciousness and Bayesian statistics. In 2008 he published "Understanding Psychology as a Science: An Introduction to Scientific and Statistical Inference" a book that preceded and anticipated some of the issues now part of the credibility crisis in psychology.



A satellite lecture of

The 7th Seminar on Implicit Learning

# How to show evidence for no effect: Principles for using Bayes factors

24th of May 2018 at 12:00 PM

Location: Faculty of Sports Amphitheatre

**ABSTRACT:** Theories often predict there will be differences (or correlations); thus, the theory is shown wrong or irrelevant if there are no such differences (or correlations). So useful is this way of arguing that you may remember from the last paper you read, or talk you went to, the use of the claim of no difference as evidence against a theory. In that case, was the mere fact of non-significance used as the basis of the claim of no effect? Unfortunately, the fact of non-significance ( $p > .05$ , or even  $p > .80$ ) in no way justifies the claim of no effect. While significance testing can be useful, there is one place we all know it falls down: It cannot say how much evidence there is for no effect. But there is a method that does quantify evidence for no effect rather than the effect you anticipated from your theory: Bayes factors. I will go through what Bayes factors are and the principles for using them so that valid conclusions are drawn.

### REGISTRATION:

Free of charge registration is open until the 23th of May 2018, 12:00AM. In order to read the FULL ABSTRACT and REGIS-

TER to attend this lecture, scan the QR code or, go at: <https://tinyurl.com/ya6a86fc>

