



E is the new P

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Department of Statistics, Ludwigstr. 33, Room 144
and online via Zoom (Link)
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The last decade there has been much attention in the media to the fact that many scientific results are not reproducible, especially in medicine and psychology this is widely acknowledged. Part of the problem is due to the mathematics used for hypothesis testing. The standard methodology is the “p-value based null hypothesis significance testing”, despite a myriad of problems surrounding it. We present the E-value, a notion of evidence which overcomes some of the issues.

Biography:

Rianne de Heide is an assistant professor in the mathematics department of the Vrije Universiteit Amsterdam. She works on problems and solutions in statistics and machine learning, with a focus on (sequential) hypothesis testing, Bayesian learning and bandit problems. Recently she also started working on mathematics for explainable AI. Rianne conducted her PhD research at the Centrum Wiskunde & Informatica (the national research institute for mathematics and computer science in the Netherlands), and won the Willem R. van Zwet award 2022 for her PhD thesis, a prize for the best PhD thesis in Statistics and Operations Research from 2020/2021. After her PhD she was a postdoctoral researcher at the Otto von Guericke Universität Magdeburg working with Alexandra Carpentier, and at INRIA Lille working with Emilie Kaufmann, before continuing there on an NWO Rubicon grant, a personal grant to conduct research for 2 years fulltime. In March 2022 she joined the Vrije Universiteit Amsterdam as assistant professor in the mathematics department.