

DEPARTMENT OF STATISTICS AND BIOSTATISTICS

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*The replicability problems in science: it's not the
p-value's fault*

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3:20 – 4:20pm

Light refreshments will be served

**110 Frelinghuysen Road
Hill Center, Room 552**

Abstract: Significance testing, and the p-value as its symbol, have become the statistical scapegoat for the replicability problems in science. Instead, I shall argue that the two main statistical obstacles to replicability are (i) unattended inference on the selected, and (ii) ignoring the relevant variability. I shall devote most of the talk to the first challenge: reviewing current and emerging approaches to selective inference, and presenting some recently developed methodologies, with examples from genomics, medical research and experimental Psychology.

Bio: Yoav Benjamini is a member of the Sagol School of Neuroscience and the Edmond J. Safra Center for Bioinformatics, the Israel Statistical Association, American Statistical Association, The Institute of Mathematical Statistics, Eastern Mediterranean Region of the International Biometric Society, and The Israel Academy of Sciences and Humanities. Recipient of Israel Prize in Statistics and Economics. He got his PhD from Princeton in 1981.

