



"p-value is not a probability in frequentist sense because it depends on a particular observation"
"I don't think you can define a probability, in frequentist sense, "assuming null hypothesis is true", you can define only probabilities "assuming true value θ of is equal to (something)""

I would disagree.

"The (asymptotic) p-value of a test ψα is the smallest (asymptotic) level α at which ψα rejects H₀. It is random, it depends on the sample."

It is a function of the test and therefore r.v. even in a frequentist sence and its realization depends on realization of the test (aka sample).

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