PHILOSOPHY OF STATISTICS **DISCUSSION QUESTIONS #3**

- (1) The paper argues that NHST offers limited inferential value in observational studies, mainly due to the confusion caused by merging Fisher's and Neyman–Pearson's methods. Should we thus abandon NHST in nonexperimental contexts and instead use Fisher's or Neyman–Pearson's approaches separately, depending on the context? Or should we move toward alternatives like likelihood-based inference or a Bayesian framework that offers a clearer representation of uncertainty and evidence?
- (2) To what extent does the misuse of probabilistic modus tollens undermine the logical foundation of NHST?