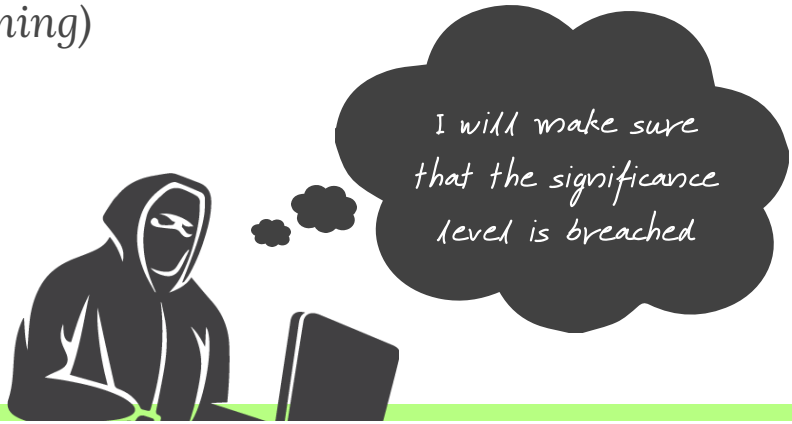
p-Hacking

- *Running multiple tests on the same data until one of them is statistically significant and reporting them as valid mathematical conclusions*
- *Results in spurious correlations instead of generalizable results*
- *Can be dealt with*
  - ***Bonferroni Correction*** *– a very conservative approach of using the alpha = (alpha/no. of tests)*
  - *using hold-out and validation sets (often used in machine learning)*



Learn More

- *p-Hacking the Analytic Results*
- *False-Positives, p-Hacking, Statistical Power, and Evidential Value*