- G*Power covers statistical power analyses for many different statistical tests such as: t test, F test, χ2-test. z test and some exact tests.

- G*Power offers five different types of statistical power analysis:

  - A priori (sample size N is computed as a function of power level 1-β, significance level α, and the to-be-detected population effect size)

  - Compromise (both α and 1-β are computed as functions of effect size, N, and an error probability ratio q = β/α)

  - Criterion (α and the associated decision criterion are computed as a function of 1-β, the effect size, and N)

  - Post-hoc (1-β is computed as a function of α, the population effect size, and N)

  - Sensitivity (population effect size is computed as a function of α, 1-β, and N)

- G*Power is available for Mac OS X and Windows. **G*Power is free.**

Faul, F., Erdfelder, E., Lang, A.G., & Buchner, A. (2007). G*Power 3: A flexible statistical power analysis program for the social, behavioral, and biomedical sciences. *Behavior Research Methods, 39,* 175-191.