Schneider, P. J., & **Penfield, D. A.** (1997). Alexander and Govern's approximations: Providing an alternative to anova under variance heterogeneity. *The Journal of Experimental Education*, *65*(3), 271–286. DOI: https://doi.org/10.1080/00220973.1997.9943459

Srivastava, A. B. L. (1959). Effects of non-normality on the power of the analysis of variance test. *Biometrika*, *46*(1–2), 114–122. DOI: https://doi.org/10.2307/2332813

Tiku, M. (1971). Power function of the f-test under non-normal situations. *Journal of the American Statistical Association*, *66*, 913–916. DOI: https://doi.org/10.1080/01621459.1971.10482371

Tomarken, A. J., & **Serlin, R. C.** (1986). Comparison of anova alternatives under variance heterogeneity and specific noncentrality structures. *Psychological Bulletin*, *99*(1), 90–99. DOI: https://doi.org/10.1037//0033-2909.99.1.90

Wasserman, B. D., & **Weseley, A. J.** (2009). ?'Qué? Quoi? Do languages with grammatical gender promote sexist attitudes? *Sex Roles*, *61*, 634–643. DOI: https://doi.org/10.1007/s11199-009-9696-3

Westfall, P. H. (2014). Kurtosis as peakedness, 1905–2014. R.I.P. *The American Statistician*, *68*(3), 191–195. DOI: https://doi.org/10.1080/00031305.2014.917055

Wilcox, R. R. (1998). How many discoveries have been lost by ignoring modern statistical methods? *American Psychologist*, *53*(3), 300–314. DOI: https://doi.org/10.1037/0003-066X.53.3.300

Wilcox, R. R. (2005). Comparing medians: An overview plus new results on dealing with heavy-tailed distributions. *The Journal of Experimental Education*, *73*(3), 249–263. DOI: https://doi.org/10.3200/JEXE.73.3.249-263

Wilcox, R. R. (2011). *Introduction to robust estimation and hypothesis testing*. Cambridge, Massachusetts, US: Academic Press. DOI: https://doi.org/10.1016/B978-0-12-386983-8.00010-X

Yuan, K.-H., Bentler, P. M., & **Chan, W.** (2004). Structural equation modeling with heavy tailed distributions. *Psychometrika*, *69*(3), 421–436. DOI: https://doi.org/10.1007/BF02295644

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