Reading List (Also Included in Print)

# Chapter 1: Why do we need statistics?

Hand DJ (2008) *Statistics: A Very Short Introduction*. Oxford University Press, Oxford.

– Gentle introduction.

# Chapter 2: The research cycle

Popper Karl R (1959, 2005 revised edition) *The Logic of Scientific Discovery*. Routledge, NY.

– Philosophically technical.

# Chapter 3: Variables

Rosnow RL & Rosenthal R (1997) *People Studying People: Artefacts and Ethics in Behavioural Research*. Freeman and Co, NY.

# Chapter 4: Relationships between variables

Cumming G (2012) *Understanding the New Statistics*. Routledge, NY.

Ellis PD (2010) *The Essential Guide to Effect Sizes: Statistical Power, Meta-Analysis, and the Interpretation of Research Results*. Cambridge University Press, Cambridge.

Cohen J (1988) *Statistical Power Analysis for the Behavioural Sciences*. Psychology Press, NY.

Rosenthal R & Rubin DB (1982) A simple general purpose display of magnitude and experimental effect. *Journal of Educational Psychology* 74, 166-169.

# Chapter 5: Uncertainty

Barford NC (1985) *Experimental Measurements: Precision, Error and Truth* (2nd edition) Wiley, Chichester.

Efron B & Hastie T (2016) *Computer Age Statistical Inference*. Cambridge University Press, Cambridge.

Pawitan Y (2013) *In All Likelihood*. Oxford University Press, Oxford.

Lambert B (2018) *A Student’s Guide to Bayesian Statistics*. Sage, London.

# Chapter 6: Null hypothesis testing

Cumming G (2012) *Understanding the New Statistics*. Routledge, NY.

Harlow LL, Mulaik SA & Stegier JH (editors) (2016) *What If There Were No Significance Testing?* Routledge, NY.

# Chapter 7: Statistical tests for one independent variable

Nuijten MB, Hartgerink CHJ, van Assen MALM, et al. (2016) The prevalence of statistical reporting errors in psychology (1985–2013), *Behavioural Research Methods* 48, 1205.

– This paper is easy to read. It shows how often statistical analyses are published with errors in them. We thought you might enjoy this.

# Chapter 8: Minimising uncertainty: Research design

Cohen J (1988) *Statistical Power Analysis for the Behavioural Sciences*. Psychology Press, NY.

# Chapter 9: Measurements and uncertainty

Barford NC (1985) *Experimental Measurements: Precision, Error and Truth* (2nd edition) Wiley, Chichester.

Rosnow RL & Rosenthal R (1997) *People Studying People: Artefacts and Ethics in Behavioural Research*. Freeman and Co, NY.

# Chapter 10: Sampling and uncertainty

Cohen J (1988) *Statistical Power Analysis for the Behavioural Sciences*. Psychology Press, NY.

# Chapter 11: Hypotheses with more than one independent variable

Flora DB (2018) *Statistical Methods for the Social Science & Behavioural Sciences*. Sage, London.

Hayes AF (2013) *Mediation, Moderation and Conditional Process Analysis*. Guilford Press NY.

# Chapter 12: Covariations: Relationships between two independent variables

Flora DB (2018) *Statistical Methods for the Social Science & Behavioural Sciences*. Sage, London.

Ellis PD (2010) *The Essential Guide to Effect Sizes: Statistical Power, Meta-Analysis, and the Interpretation of Research Results*. Cambridge University Press, Cambridge.

# Chapter 13: Analysing data with two or more independent variables

Flora DB (2018) *Statistical Methods for the Social Science & Behavioural Sciences*. Sage, London.

– A good general text that uses some mathematics with helpful explanations.

Fox J (2016) *Applied Regression Analysis and Generalized Linear Models*. Sage, London

*Advanced but comprehensive.*

Dobson AJ & Barnett AG (2008) *An Introduction to Generalized Linear Models* (3rd edition). CRC Press, Boca Raton.

– Advanced classic text

# Chapter 14: Which model is best?

Flora DB (2018) *Statistical Methods for the Social Science & Behavioural Sciences*. Sage, London.

Tabachnik BG & Fidell LS (2014) *Using Multivariate Statistics* (6th edition). Pearson, Harlow Essex.

Hayes AF (2013) *Mediation, Moderation and Conditional Process Analysis*. Guilford Press NY.

Kline RB (2016) *Principles and Practice of Structural Equation Modeling*. Guilford Press NY.

Pearl J (2009) *Causality: Models, Reasoning and Inference* (2nd edition). Cambridge University Press, Cambridge.

Pearl J & Mackenzie D (2018) *The Book of Why: The New Science of Cause and Effect*. Allen Lane, UK.