

Index

A

Age-appropriate tools, 25–27
Altmetrics, 189–190
Analysis of variance (ANOVA), 75
Asymp. Sig., 71, 105–106
Authorial voice, 183, 185

B

Bias, 13, 16, 17, 182, 183
Binary, 91, 96, 160
Binomial, 41, 152–163
Bonferroni, 66, 76
Boxplot, 58

C

Challenges, 5, 16, 33, 34, 182–185, 191, 193
Chi-square, 85–91, 96, 126
Cochran, 86, 96–102
Coefficient, 134–136
Collecting data, 3, 9, 14, 18, 33, 50
Concrete reference points, 27
Conference, 3, 178, 185, 190, 191
Confirmation bias, 1
Construct, 11, 12, 21
Correlation, 19, 20, 39–42, 60, 67, 75,
111–131, 133, 137, 194

Correlational designs, 19
Covariate, 155, 165, 173
Cover letter, 34–37
Cramer, 40, 126–132

D

Data types
categorical, 12, 40, 41, 112, 126
interval, 39–42, 91, 112
nominal, 39, 40, 126
ordinal, 39, 40, 126
ratio, 39, 40, 42, 126
scale, 40, 41
Dependent variable, 1, 9, 11, 19, 66, 67,
76, 153, 164
Descriptive designs, 21
Designing surveys, 27
Dichotomous, 40, 41, 49, 91, 96, 102, 152, 153
Double questions, 13, 27

E

Effect size, 10, 196
ERA, 181
Ethics, 28, 32–34
Exact Sig., 105
Experimental designs, 18, 19

G

Generalisability, 2, 21
 Goodness of fit, 136, 180
 GPower, 42

H

Histogram, 4, 42, 43, 103, 106, 107, 120
 Homoscedasticity, 137, 149
 Hypotheses, 1, 9, 10, 18, 66, 133, 194

I

Independent, 9, 26, 41, 66, 67, 75, 86, 96, 127
 Independent variable, 9, 11, 19, 137

J

Journal articles, 12, 178–182, 185

K

Kendall, 39, 40, 42, 111, 120–126
 Knowledge mobilisation, 177, 191
 Kolomogorov-Smirnov, 42
 Kruskal-Wallis (KW), 66, 75–85
 Kurtosis, 84

L

Language, 12, 13, 27, 177–179
 Latent, 60
 Likert's scale, 41, 50, 59
 Linearity, 144, 160, 171

M

Mann-Whitney *U*, 41, 65–76
 McNemar, 41, 86, 91–96, 99, 102
 Mean
 mean rank, 40, 67, 77
 trimmed mean, 51, 58
 Median, 19, 39, 67, 76
 Missing value
 missing at random, 14, 26
 missing completely at random, 14
 missing not at random, 13, 14, 26
 Mixed-methods, 3, 10, 21, 22, 25, 31,
 182–184, 195
 Monotone, 58, 59
 Multicollinearity, 137
 Multiple regression, 134, 137

N

Nagelkerke, 158, 163, 167, 174
 Non-parametric, 2–4, 39, 41, 42, 75, 111, 120,
 193–195
 Non-response bias (NRB), 65
 Normal
 non-normal, 136
 normality, 4, 120, 136, 137, 147

O

Outcome variable, 67, 96, 101, 133–137, 144,
 152, 153, 163, 164
 Outliers, 51, 52, 58, 137, 147, 148, 164

P

Pair-sample *t*-test, 43
 Pearson, 42, 86, 111, 120, 126
 Piloting, 11, 13, 18, 27–32, 36
 Plain English, 29, 34, 178–179, 186–190
 Post-hoc, 66, 76, 79, 99
 Predictors, 133–137, 144, 153, 160, 164, 171
 Priming, 27

Q

Q-Q plot, 42, 43, 137, 145, 147, 148
 Quality, 9, 26, 31, 32, 34, 40, 51, 179–181,
 184, 185, 190
 Quartile, 181

R

R^2 , 135, 136
 Recode, 59, 60, 64
 Regression
 binomial, 152–163
 linear, 144
 logistic, 152, 160, 163, 171
 multinomial, 163–171, 174
 Reliability, 11, 12, 18, 21, 25, 164, 194, 197
 Research questions, 1, 2, 8–10, 12, 18, 186,
 194
 Research translation, 8, 10, 191
 Residual, 135, 137, 149

S

Sample
 sampling strategies, 10, 16
 size, 194

Satisficing, 13, 26–29, 31
Scatter plots, 42, 112, 115, 118, 121, 135, 137, 144
School relationships, 37
SCImago, 181, 182, 190
Shapiro-Wilk, 42, 44, 120, 136, 145
Social media, 16
Spearman, 39, 40, 111–120, 126
Standard deviation, 52, 58, 137, 164
Statistical power, 42
Sum of squares, 135
Survey design, 13, 196–197
Syntax, 47, 48

T

Thesis by publication (TBP), 178, 180, 184–186
Tolerance, 137

Transformation

log transformation, 147, 158

T-test

independent, 48
paired samples, 48

V

Validity, 11–13, 16, 32, 194, 197
Variables, 1, 7, 40, 47, 65, 111, 133, 194
Variance, 58
Variance inflation factor (VIF), 137

W

Wilcoxon, 102–107
Winsor, 58, 148
Write up, 2, 177–191