Gwowen Shieh

List of Publications by Year
in descending order

74 papers	1,340 citations	361296 20 h-index	377752 34 g-index
75 all docs	75 docs citations	75 times ranked	1701 citing authors

#	Article	IF	Citations
1	Assessing individual equivalence in parallel group and crossover designs: Exact test and sample size procedures. PLoS ONE, 2022, 17, e0269128.	1.1	1
2	Appraising Minimum Effect of Standardized Contrasts in ANCOVA Designs: Statistical Power, Sample Size, and Covariate Imbalance Considerations. Statistics in Biopharmaceutical Research, 2021, 13, 468-475.	0.6	2
3	Improved procedures and computer programs for equivalence assessment of correlation coefficients. PLoS ONE, 2021, 16, e0252323.	1.1	1
4	Probing categorical moderation under variance heterogeneity.. Psychological Methods, 2021, 26, 315-326.	2.7	0
5	On the Extended Welch Test for Assessing Equivalence of Standardized Means. Statistics in Biopharmaceutical Research, 2020, 12, 344-351.	0.6	2
6	Assessing Agreement Between Two Methods of Quantitative Measurements: Exact Test Procedure and Sample Size Calculation. Statistics in Biopharmaceutical Research, 2020, 12, 352-359.	0.6	20
7	Power Analysis and Sample Size Planning in ANCOVA Designs. Psychometrika, 2020, 85, 101-120.	1.2	22
8	A Comparative Study of TOST and UMPT Procedures for Evaluating Dispersion Equivalence. Statistics in Biopharmaceutical Research, 2020, , 1-6.	0.6	0
9	Comparison of alternative approaches for difference, noninferiority, and equivalence testing of normal percentiles. BMC Medical Research Methodology, 2020, 20, 59.	1.4	2
10	Optimal contrast analysis with heterogeneous variances and budget concerns. PLoS ONE, 2019, 14, e0214391.	1.1	1
11	Sample size calculations for model validation in linear regression analysis. BMC Medical Research Methodology, 2019, 19, 54.	1.4	12
12	Effect size, statistical power, and sample size for assessing interactions between categorical and continuous variables. British Journal of Mathematical and Statistical Psychology, 2019, 72, 136-154.	1.0	16
13	On Sample-Size Calculations for Precise Contrast Analysis in ANCOVA. Journal of Experimental Education, 2019, 87, 238-259.	1.6	2
14	On Detecting a Minimal Important Difference among Standardized Means. Current Psychology, 2018, 37, 640-647.	1.7	1
15	Power and sample size calculations for comparison of two regression lines with heterogeneous variances. PLoS ONE, 2018, 13, e0207745.	1.1	8
16	The appropriateness of Bland-Altman's approximate confidence intervals for limits of agreement. BMC Medical Research Methodology, 2018, 18, 45.	1.4	25
17	The Bland-Altman range of agreement: Exact interval procedure and sample size determination. Computers in Biology and Medicine, 2018, 100, 247-252.	3.9	16
18	Sample size determination for examining interaction effects in factorial designs under variance heterogeneity.. Psychological Methods, 2018, 23, 113-124.	2.7	3

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19	The equivalence of two approaches to incorporating variance uncertainty in sample size calculations for linear statistical models. Journal of Applied Statistics, 2017, 44, 40-56.	0.6	1
20	Power and Sample Size Calculations for Contrast Analysis in ANCOVA. Multivariate Behavioral Research, 2017, 52, 1-11.	1.8	16
21	Optimal Sample Size Determinations for the Heteroscedastic Two One-Sided Tests of Mean Equivalence. Journal of Educational and Behavioral Statistics, 2017, 42, 145-165.	1.0	5
22	Precise confidence intervals of regression-based reference limits: Method comparisons and sample size requirements. Computers in Biology and Medicine, 2017, 91, 191-197.	3.9	5
23	On tests of treatment-covariate interactions: An illustration of appropriate power and sample size calculations. PLoS ONE, 2017, 12, e0177682.	1.1	3
24	A systematic approach to designing statistically powerful heteroscedastic 2â€‰Ã—â€‰2 factorial studies while minimizing financial costs. BMC Medical Research Methodology, 2016, 16, 114.	1.4	1
25	A comparative appraisal of two equivalence tests for multiple standardized effects. Computer Methods and Programs in Biomedicine, 2016, 126, 110-117.	2.6	4
26	Choosing the best index for the average score intraclass correlation coefficient. Behavior Research Methods, 2016, 48, 994-1003.	2.3	65
27	Exact Power and Sample Size Calculations for the Two One-Sided Tests of Equivalence. PLoS ONE, 2016, 11, e0162093.	1.1	21
28	The power of approximate degrees of freedom tests in heteroscedastic factorial designs. Behavior Research Methods, 2015, 47, 871-883.	2.3	2
29	Sample Size Calculations for Precise Interval Estimation of the Eta-Squared Effect Size. Journal of Experimental Education, 2015, 83, 203-217.	1.6	2
30	Optimal sample size allocation for Welchâ€™s test in one-way heteroscedastic ANOVA. Behavior Research Methods, 2015, 47, 374-383.	2.3	14
31	Sample size determinations for Welch's test in oneâ€way heteroscedastic <scp>ANOVA</scp>. British Journal of Mathematical and Statistical Psychology, 2014, 67, 72-93.	1.0	51
32	Determining Sample Sizes for Precise Contrast Analysis With Heterogeneous Variances. Journal of Educational and Behavioral Statistics, 2014, 39, 91-116.	1.0	5
33	Sample size requirements for the design of reliability studies: precision consideration. Behavior Research Methods, 2014, 46, 808-822.	2.3	21
34	Optimal sample sizes for the design of reliability studies: Power consideration. Behavior Research Methods, 2014, 46, 772-785.	2.3	10
35	Confidence intervals and sample size calculations for the standardized mean difference effect size between two normal populations under heteroscedasticity. Behavior Research Methods, 2013, 45, 955-967.	2.3	3
36	Confidence intervals and sample size calculations for the weighted eta-squared effect sizes in one-way heteroscedastic ANOVA. Behavior Research Methods, 2013, 45, 25-37.	2.3	7

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37	Determining Sample Size With a Given Range of Mean Effects in One-Way Heteroscedastic Analysis of Variance. Journal of Experimental Education, 2013, 81, 281-294.	1.6	5
38	Sample size requirements for interval estimation of the strength of association effect sizes in multiple regression analysis. Psicothema, 2013, 25, 402-7.	0.7	5
39	A comparison of two indices for the intraclass correlation coefficient. Behavior Research Methods, 2012, 44, 1212-1223.	2.3	24
40	Optimal sample sizes for precise interval estimation of Welch's procedure under various allocation and cost considerations. Behavior Research Methods, 2012, 44, 202-212.	2.3	4
41	Clarifying the role of mean centring in multicollinearity of interaction effects. British Journal of Mathematical and Statistical Psychology, 2011, 64, 462-477.	1.0	129
42	Optimal sample sizes for Welch's test under various allocation and cost considerations. Behavior Research Methods, 2011, 43, 1014-1022.	2.3	19
43	The impact of ignoring random features of predictor and moderator variables on sample size for precise interval estimation of interaction effects. Behavior Research Methods, 2011, 43, 1075-1084.	2.3	1
44	Sample size determination for confidence intervals of interaction effects in moderated multiple regression with continuous predictor and moderator variables. Behavior Research Methods, 2010, 42, 824-835.	2.3	23
45	Estimation of the simple correlation coefficient. Behavior Research Methods, 2010, 42, 906-917.	2.3	27
46	On the Misconception of Multicollinearity in Detection of Moderating Effects: Multicollinearity Is Not Always Detrimental. Multivariate Behavioral Research, 2010, 45, 483-507.	1.8	52
47	Detection of interactions between a dichotomous moderator and a continuous predictor in moderated multiple regression with heterogeneous error variance. Behavior Research Methods, 2009, 41, 61-74.	2.3	15
48	Exact Analysis of Squared Cross-Validity Coefficient in Predictive Regression Models. Multivariate Behavioral Research, 2009, 44, 82-105.	1.8	3
49	Detecting Interaction Effects in Moderated Multiple Regression With Continuous Variables Power and Sample Size Considerations. Organizational Research Methods, 2009, 12, 510-528.	5.6	129
50	Improved Shrinkage Estimation of Squared Multiple Correlation Coefficient and Squared Cross-Validity Coefficient. Organizational Research Methods, 2008, 11, 387-407.	5.6	45
51	Power and sample size determinations for the Wilcoxon signed-rank test. Journal of Statistical Computation and Simulation, 2007, 77, 717-724.	0.7	41
52	Simultaneous identifications of the minimum effective dose in each of several groups. Journal of Statistical Computation and Simulation, 2007, 77, 149-161.	0.7	0
53	Methodological and computational considerations for multiple correlation analysis. Behavior Research Methods, 2007, 39, 731-734.	2.3	6
54	A Unified Approach to Power Calculation and Sample Size Determination for Random Regression Models. Psychometrika, 2007, 72, 347-360.	1.2	8

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55	Exact Interval Estimation, Power Calculation, and Sample Size Determination in Normal Correlation Analysis. Psychometrika, 2006, 71, 529-540.	1.2	20
56	On power and sample size determinations for the Wilcoxon–Mann–Whitney test. Journal of Nonparametric Statistics, 2006, 18, 33-43.	0.4	44
57	Suppression Situations in Multiple Linear Regression. Educational and Psychological Measurement, 2006, 66, 435-447.	1.2	32
58	On power and sample size calculations for Wald tests in generalized linear models. Journal of Statistical Planning and Inference, 2005, 128, 43-59.	0.4	21
59	Power and sample size calculations for multivariate linear models with random explanatory variables. Psychometrika, 2005, 70, 347-358.	1.2	10
60	The effectiveness of randomized complete block design. Statistica Neerlandica, 2004, 58, 111-124.	0.9	13
61	Nonparametric Multiple Test Procedures for Dose Finding. Communications in Statistics Part B: Simulation and Computation, 2004, 33, 1021-1037.	0.6	2
62	A Comparative Study of Power and Sample Size Calculations for Multivariate General Linear Models. Multivariate Behavioral Research, 2003, 38, 285-307.	1.8	11
63	Bayesian Prediction Analysis for Growth Curve Model Using Noninformative Priors. Annals of the Institute of Statistical Mathematics, 2002, 54, 324-337.	0.5	1
64	The Inequality Between the Coefficient of Determination and the Sum of Squared Simple Correlation Coefficients. American Statistician, 2001, 55, 121-124.	0.9	22
65	Sample size calculations for logistic and Poisson regression models. Biometrika, 2001, 88, 1193-1199.	1.3	33
66	On Power and Sample Size Calculations for Likelihood Ratio Tests in Generalized Linear Models. Biometrics, 2000, 56, 1192-1196.	0.8	48
67	A comparison of two approaches for power and sample size calculations in logistic regression models. Communications in Statistics Part B: Simulation and Computation, 2000, 29, 763-791.	0.6	15
68	General multivariate linear models for longitudinal studies. Communications in Statistics - Theory and Methods, 2000, 29, 735-753.	0.6	1
69	Efficacy of intravenously administered theophylline in children hospitalized with severe asthma. Journal of Pediatrics, 1993, 122, 470-476.	0.9	76
70	EMPIRICAL BAYES MINIMAX ESTIMATORS OF MATRIX NORMAL MEANS FOR ARBITRARY QUADRATIC LOSS AND UNKNOWN COVARIANCE MATRIX. Statistics and Risk Modeling, 1993, 11, .	0.7	1
71	Does Aminophylline Benefit Adults Admitted to the Hospital for an Acute Exacerbation of Asthma?. Annals of Internal Medicine, 1993, 119, 1155.	2.0	56
72	A random coefficient growth curve analysis of mental development in low-birth-weight infants. Statistics in Medicine, 1992, 11, 243-256.	0.8	17

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73	Empirical Bayes minimax estimators of matrix normal means. Journal of Multivariate Analysis, 1991, 38, 306-318.	0.5	10
74	Exact Properties of Some Heteroscedastic TOST Alternatives for Bioequivalence. Statistics in Biopharmaceutical Research, 0, , 1-10.	0.6	0