Keith E Muller

List of Publications by Year
in descending order

54 papers	2,844 citations	304743 22 h-index	189892 50 g-index
56 all docs	56 docs citations	56 times ranked	3874 citing authors

#	Article	IF	Citations
1	An R² statistic for fixed effects in the linear mixed model. Statistics in Medicine, 2008, 27, 6137-6157.	1.6	470
2	Selecting a sample size for studies with repeated measures. BMC Medical Research Methodology, 2013, 13, 100.	3.1	258
3	GLIMMPSE: Online Power Computation for Linear Models with and without a Baseline Covariate. Journal of Statistical Software, 2013, 54, .	3.7	227
4	Real longitudinal data analysis for real people: Building a good enough mixed model. Statistics in Medicine, 2010, 29, 504-520.	1.6	193
5	Power Calculations for General Linear Multivariate Models Including Repeated Measures Applications. Journal of the American Statistical Association, 1992, 87, 1209-1226.	3.1	191
6	Effects of home access and availability of alcohol on young adolescents' alcohol use. Addiction, 2007, 102, 1597-1608.	3.3	189
7	Approximate Power for Repeated-Measures ANOVA Lacking Sphericity. Journal of the American Statistical Association, 1989, 84, 549-555.	3.1	134
8	Increasing scientific power with statistical power. Neurotoxicology and Teratology, 1992, 14, 211-219.	2.4	99
9	Interpretation of Digital Mammograms: Comparison of Speed and Accuracy of Soft-Copy versus Printed-Film Display. Radiology, 2002, 223, 483-488.	7.3	92
10	Radiologistsâ€™ Preferences for Digital Mammographic Display. Radiology, 2000, 216, 820-830.	7.3	78
11	Extending the Box-Cox transformation to the linear mixed model. Journal of the Royal Statistical Society Series A: Statistics in Society, 2006, 169, 273-288.	1.1	77
12	Practical methods for computing power in testing the multivariate general linear hypothesis. Computational Statistics and Data Analysis, 1984, 2, 143-158.	1.2	75
13	Avoiding bias in mixed model inference for fixed effects. Statistics in Medicine, 2011, 30, 2696-2707.	1.6	66
14	Statistical tests with accurate size and power for balanced linear mixed models. Statistics in Medicine, 2007, 26, 3639-3660.	1.6	45
15	Computing Confidence Bounds for Power and Sample Size of the General Linear Univariate Model. American Statistician, 1995, 49, 43-47.	1.6	42
16	A New Method for Choosing Sample Size for Confidence Interval-Based Inferences. Biometrics, 2003, 59, 580-590.	1.4	42
17	Adjusting power for a baseline covariate in linear models. Statistics in Medicine, 2003, 22, 2535-2551.	1.6	38
18	Bias in linear model power and sample size calculation due to estimating noncentrality. Communications in Statistics - Theory and Methods, 1996, 25, 1595-1610.	1.0	34

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19	A method for determination of optimal image enhancement for the detection of mammographic abnormalities. Journal of Digital Imaging, 1994, 7, 161-171.	2.9	32
20	A linear exponent AR(1) family of correlation structures. Statistics in Medicine, 2010, 29, 1825-1838.	1.6	28
21	Tests for Gaussian repeated measures with missing data in small samples. , 2000, 19, 1101-1114.		26
22	Properties of internal pilots with the univariate approach to repeated measures. Statistics in Medicine, 2003, 22, 2469-2485.	1.6	26
23	Comparison of Calcification Specificity in Digital Mammography Using Soft-Copy Display Versus Screen-Film Mammography. American Journal of Roentgenology, 2006, 187, 47-50.	2.2	24
24	POWERLIB:SAS/IMLSoftware for Computing Power in Multivariate Linear Models. Journal of Statistical Software, 2009, 30, .	3.7	22
25	Absence of symptoms with carboxyhemoglobin levels of 16â€“23%. Neurotoxicology and Teratology, 1987, 9, 345-348.	2.4	19
26	Bias in linear model power and sample size due to estimating variance. Communications in Statistics - Theory and Methods, 1997, 26, 839-851.	1.0	19
27	The effects of low-level carbon monoxide exposure upon evoked cortical potentials in young and elderly men. Neurotoxicology and Teratology, 1988, 10, 93-100.	2.4	17
28	Global hypothesis testing for highâ€dimensional repeated measuresâ€‰outcomes. Statistics in Medicine, 2012, 31, 724-742.	1.6	16
29	Compensatory tracking in humans with elevated carboxyhemoglobin. Neurotoxicology and Teratology, 1990, 12, 105-110.	2.4	15
30	Computing Confidence Bounds for Power and Sample Size of the General Linear Univariate Model. American Statistician, 1995, 49, 43.	1.6	15
31	A NewFApproximation for the Pillaiâ€”Bartlett Trace UnderH0. Journal of Computational and Graphical Statistics, 1998, 7, 131-137.	1.7	15
32	Effect of display luminance on the feature detection rates of masses in mammograms. Medical Physics, 1999, 26, 2266-2272.	3.0	15
33	Power calculation for overall hypothesis testing with highâ€dimensional commensurate outcomes. Statistics in Medicine, 2014, 33, 812-827.	1.6	12
34	A comparison of power approximations for satterthwaite's test. Communications in Statistics Part B: Simulation and Computation, 1995, 24, 583-593.	1.2	11
35	Multivariate test power approximations for balanced linear mixed models in studies with missing data. Statistics in Medicine, 2016, 35, 2921-2937.	1.6	11
36	A New Approximation for the Pillai-Bartlett Trace under. Journal of Computational and Graphical Statistics, 1998, 7, 131-137.	1.7	11

#	Article	IF	Citations
37	Confidence regions for repeated measures ANOVA power curves based on estimated covariance. BMC Medical Research Methodology, 2013, 13, 57.	3.1	10
38	Practical Methods for Bounding Type I Error Rate with an Internal Pilot Design. Communications in Statistics - Theory and Methods, 2007, 36, 2143-2157.	1.0	9
39	Kronecker Product Linear Exponent AR(1) Correlation Structures for Multivariate Repeated Measures. PLoS ONE, 2014, 9, e88864.	2.5	9
40	Quality of Care for Chronic Conditions Among Disabled Medicaid Enrollees. Medical Care, 2015, 53, 599-606.	2.4	8
41	A practical decision tree to support editorial adjudication of submitted parallel cluster randomized controlled trials. Obesity, 2022, 30, 565-570.	3.0	8
42	Internal pilots for a class of linear mixed models with Gaussian and compound symmetric data. Statistics in Medicine, 2007, 26, 4083-4099.	1.6	7
43	The Wellness Incentive and Navigation intervention improved healthâ€related quality of life among Medicaid enrollees: A randomized pragmatic clinical trial. Health Services Research, 2019, 54, 1156-1165.	2.0	6
44	Power and Sample Size for Fixed-Effects Inference in Reversible Linear Mixed Models. American Statistician, 2019, 73, 350-359.	1.6	6
45	A New F Approximation for the Pillai-Bartlett Trace under H 0. Journal of Computational and Graphical Statistics, 1998, 7, 131.	1.7	5
46	Age and Treatment Related Local Hippocampal Changes in Schizophrenia Explained by a Novel Shape Analysis Method. Lecture Notes in Computer Science, 2003, , 653-660.	1.3	4
47	Analysis of variance concepts and computations. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 271-282.	3.9	4
48	Trajectories of Nevus Development From Age 3 to 16 Years in the Colorado Kids Sun Care Program Cohort. JAMA Dermatology, 2018, 154, 1272.	4.1	4
49	Florida Medicaid Children's Receipt of First-Line Psychosocial Care Prior to Antipsychotic Initiation. Academic Pediatrics, 2022, 22, S100-S107.	2.0	3
50	Enhancing Quality Measurement With Clinical Information: A Use Case of Body Mass Index Change Among Children Taking Second Generation Antipsychotics. Academic Pediatrics, 2022, 22, S140-S149.	2.0	2
51	Do patients at high risk for Hepatitis C receive recommended testing? A retrospective cohort study of statewide Medicaid claims linked with OneFlorida clinical data. Medicine (United States), 2021, 100, e28316.	1.0	1
52	Analysis methods for nonlinear models with compoun- symmetric covariance. Communications in Statistics - Theory and Methods, 1992, 21, 1163-1182.	1.0	0
53	Power for balanced linear mixed models with complex missing data processes. Communications in Statistics - Theory and Methods, 0, , 1-19.	1.0	0
54	Using scientifically and statistically sufficient statistics in comparing image segmentations. Statistics and Its Interface, 2010, 3, 91-101.	0.3	0