

# Matt P Wand

## List of Publications by Citations

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153  
papers

11,724  
citations

49  
h-index

107  
g-index

173  
ext. papers

13,110  
ext. citations

2.2  
avg, IF

6.42  
L-index

#	Paper	IF	Citations
153	Kernel Smoothing <b>1995</b> ,		2022
152	Semiparametric Regression <b>2003</b> ,		1543
151	Multivariate Locally Weighted Least Squares Regression. <i>Annals of Statistics</i> , <b>1994</b> , 22, 1346	3.2	558
150	Generalized Partially Linear Single-Index Models. <i>Journal of the American Statistical Association</i> , <b>1997</b> , 92, 477-489	2.8	537
149	An Effective Bandwidth Selector for Local Least Squares Regression. <i>Journal of the American Statistical Association</i> , <b>1995</b> , 90, 1257-1270	2.8	511
148	Exact Mean Integrated Squared Error. <i>Annals of Statistics</i> , <b>1992</b> , 20, 712	3.2	440
147	Geoaddivitive models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , <b>2003</b> , 52, 1-18	1.5	269
146	Chronic caregiver stress and IgE expression, allergen-induced proliferation, and cytokine profiles in a birth cohort predisposed to atopy. <i>Journal of Allergy and Clinical Immunology</i> , <b>2004</b> , 113, 1051-7	11.5	210
145	Local Polynomial Kernel Regression for Generalized Linear Models and Quasi-Likelihood Functions. <i>Journal of the American Statistical Association</i> , <b>1995</b> , 90, 141-150	2.8	208
144	Comparison of Smoothing Parameterizations in Bivariate Kernel Density Estimation. <i>Journal of the American Statistical Association</i> , <b>1993</b> , 88, 520-528	2.8	196
143	Explaining Variational Approximations. <i>American Statistician</i> , <b>2010</b> , 64, 140-153	5	194
142	Bayesian Analysis for Penalized Spline Regression Using WinBUGS. <i>Journal of Statistical Software</i> , <b>2005</b> , 14,	7.3	193
141	Generalized additive distributed lag models: quantifying mortality displacement. <i>Biostatistics</i> , <b>2000</b> , 1, 279-92	3.7	190
140	Self-organization of bacterial biofilms is facilitated by extracellular DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 11541-6	11.5	188
139	Smoothing and mixed models. <i>Computational Statistics</i> , <b>2003</b> , 18, 223-249	1	183
138	Transformations in Density Estimation. <i>Journal of the American Statistical Association</i> , <b>1991</b> , 86, 343-353	2.8	161
137	Local Polynomial Variance-Function Estimation. <i>Technometrics</i> , <b>1997</b> , 39, 262-273	1.4	132

136	An Effective Bandwidth Selector for Local Least Squares Regression		130
135	Semiparametric regression during 2003-2007. <i>Electronic Journal of Statistics</i> , <b>2009</b> , 3, 1193-1256	1.2	128
134	ON SEMIPARAMETRIC REGRESSION WITH O'SULLIVAN PENALIZED SPLINES. <i>Australian and New Zealand Journal of Statistics</i> , <b>2008</b> , 50, 179-198	0.7	128
133	Simple fitting of subject-specific curves for longitudinal data. <i>Statistics in Medicine</i> , <b>2005</b> , 24, 1153-67	2.3	117
132	Simple Marginally Noninformative Prior Distributions for Covariance Matrices. <i>Bayesian Analysis</i> , <b>2013</b> , 8,	2.3	110
131	Generalized Partially Linear Single-Index Models		110
130	A General Projection Framework for Constrained Smoothing. <i>Statistical Science</i> , <b>2001</b> , 16, 232	2.4	105
129	General Design Bayesian Generalized Linear Mixed Models. <i>Statistical Science</i> , <b>2006</b> , 21, 35	2.4	104
128	Exhaled nitric oxide in patients with asthma: association with NOS1 genotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2000</b> , 162, 2043-7	10.2	99
127	Data-Based Choice of Histogram Bin Width. <i>American Statistician</i> , <b>1997</b> , 51, 59-64	5	92
126	Polymorphism of the beta(2)-adrenergic receptor gene and desensitization in human airway smooth muscle. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2000</b> , 162, 2117-24	10.2	91
125	Exact likelihood ratio tests for penalised splines. <i>Biometrika</i> , <b>2005</b> , 92, 91-103	2	85
124	Local Polynomial Kernel Regression for Generalized Linear Models and Quasi-Likelihood Functions		80
123	Multilevel modelling of the incidence of visceral leishmaniasis in Teresina, Brazil. <i>Epidemiology and Infection</i> , <b>2007</b> , 135, 195-201	4.3	77
122	Fast Computation of Multivariate Kernel Estimators. <i>Journal of Computational and Graphical Statistics</i> , <b>1994</b> , 3, 433	1.4	75
121	Fast Computation of Multivariate Kernel Estimators. <i>Journal of Computational and Graphical Statistics</i> , <b>1994</b> , 3, 433-445	1.4	68
120	Asymptotics for general multivariate kernel density derivative estimators. <i>Statistica Sinica</i> , <b>2011</b> , 21, 807	0.7	68
119	Loss of mammary epithelial prolactin receptor delays tumor formation by reducing cell proliferation in low-grade preinvasive lesions. <i>Oncogene</i> , <b>2007</b> , 26, 543-53	9.2	67

118	Gaussian-based kernels. <i>Canadian Journal of Statistics</i> , <b>1990</b> , 18, 197-204	0.4	67
117	Transformations in Density Estimation		67
116	On the Accuracy of Binned Kernel Density Estimators. <i>Journal of Multivariate Analysis</i> , <b>1996</b> , 56, 165-184	1.4	66
115	Variable Selection and Function Estimation in Additive Nonparametric Regression Using a Data-Based Prior: Comment. <i>Journal of the American Statistical Association</i> , <b>1999</b> , 94, 794	2.8	63
114	Mean Field Variational Bayes for Elaborate Distributions. <i>Bayesian Analysis</i> , <b>2011</b> , 6,	2.3	62
113	Feature significance for multivariate kernel density estimation. <i>Computational Statistics and Data Analysis</i> , <b>2008</b> , 52, 4225-4242	1.6	58
112	A Comparison of Regression Spline Smoothing Procedures. <i>Computational Statistics</i> , <b>2000</b> , 15, 443-462	1	57
111	Local Polynomial Variance-Function Estimation		55
110	Simple incorporation of interactions into additive models. <i>Biometrics</i> , <b>2001</b> , 57, 539-45	1.8	54
109	Data-Based Choice of Histogram Bin Width. <i>American Statistician</i> , <b>1997</b> , 51, 59	5	53
108	Smoothing with Mixed Model Software. <i>Journal of Statistical Software</i> , <b>2004</b> , 9,	7.3	53
107	The urban spread of visceral leishmaniasis: clues from spatial analysis. <i>Epidemiology</i> , <b>2002</b> , 13, 364-7	3.1	52
106	Mixed Model-Based Hazard Estimation. <i>Journal of Computational and Graphical Statistics</i> , <b>2002</b> , 11, 784-798	1.8	49
105	A local likelihood proportional hazards model for interval censored data. <i>Statistics in Medicine</i> , <b>2002</b> , 21, 263-75	2.3	45
104	Comparison of Smoothing Parameterizations in Bivariate Kernel Density Estimation		45
103	Minimizing L1 distance in nonparametric density estimation. <i>Journal of Multivariate Analysis</i> , <b>1988</b> , 26, 59-88	1.4	44
102	Understanding exponential smoothing via kernel regression. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>1999</b> , 61, 39-50	3.9	42
101	Gaussian Variational Approximate Inference for Generalized Linear Mixed Models. <i>Journal of Computational and Graphical Statistics</i> , <b>2012</b> , 21, 2-17	1.4	39

100	Variational Bayesian Inference for Parametric and Nonparametric Regression With Missing Data. <i>Journal of the American Statistical Association</i> , <b>2011</b> , 106, 959-971	2.8	38
99	Local EM estimation of the hazard function for interval-censored data. <i>Biometrics</i> , <b>1999</b> , 55, 238-45	1.8	35
98	Penalized Splines and Reproducing Kernel Methods. <i>American Statistician</i> , <b>2006</b> , 60, 233-240	5	34
97	Miscellanea. On the optimal amount of smoothing in penalised spline regression. <i>Biometrika</i> , <b>1999</b> , 86, 936-940	2	34
96	Finite sample performance of deconvolving density estimators. <i>Statistics and Probability Letters</i> , <b>1998</b> , 37, 131-139	0.6	31
95	Generalized additive models for cancer mapping with incomplete covariates. <i>Biostatistics</i> , <b>2004</b> , 5, 177-93.7	3.7	31
94	Negative binomial additive models. <i>Biometrics</i> , <b>2000</b> , 56, 139-44	1.8	31
93	On nonparametric discrimination using density differences. <i>Biometrika</i> , <b>1988</b> , 75, 541-547	2	31
92	Searching for the best bet in life-strategy: A quantitative approach to individual performance and population dynamics in reef-building corals. <i>Ecological Complexity</i> , <b>2015</b> , 23, 73-84	2.6	29
91	Asymptotics and optimal bandwidth selection for highest density region estimation. <i>Annals of Statistics</i> , <b>2010</b> , 38,	3.2	28
90	Respiratory health and air pollution: additive mixed model analyses. <i>Biostatistics</i> , <b>2001</b> , 2, 337-49	3.7	27
89	Some theory for penalized spline generalized additive models. <i>Journal of Statistical Planning and Inference</i> , <b>2002</b> , 103, 455-470	0.8	26
88	Error analysis for general multivariate kernel estimators. <i>Journal of Nonparametric Statistics</i> , <b>1992</b> , 2, 1-15	0.7	26
87	Automation in high-content flow cytometry screening. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2009</b> , 75, 789-97	4.6	25
86	The curvHDR method for gating flow cytometry samples. <i>BMC Bioinformatics</i> , <b>2010</b> , 11, 44	3.6	25
85	Vector Differential Calculus in Statistics. <i>American Statistician</i> , <b>2002</b> , 56, 55-62	5	25
84	Functional regression via variational Bayes. <i>Electronic Journal of Statistics</i> , <b>2011</b> , 5, 572-602	1.2	24
83	The association of expired nitric oxide with occupational particulate metal exposure. <i>Environmental Research</i> , <b>2003</b> , 93, 158-66	7.9	24

82	Penalized wavelets: Embedding wavelets into semiparametric regression. <i>Electronic Journal of Statistics</i> , <b>2011</b> , 5,	1.2	23
81	Real-Time Semiparametric Regression. <i>Journal of Computational and Graphical Statistics</i> , <b>2014</b> , 23, 589-615,		22
80	Mixed model-based additive models for sample extremes. <i>Statistics and Probability Letters</i> , <b>2008</b> , 78, 2850-2858	0.6	22
79	Kriging with nonparametric variance function estimation. <i>Biometrics</i> , <b>1999</b> , 55, 704-10	1.8	22
78	Incorporation of historical controls using semiparametric mixed models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , <b>2001</b> , 50, 31-42	1.5	21
77	Non-Standard Semiparametric Regression viaBRugs. <i>Journal of Statistical Software</i> , <b>2010</b> , 37,	7.3	20
76	Semiparametric Regression with R. <i>Use R!</i> , <b>2018</b> ,	0.3	20
75	Quasi-Monte Carlo for Highly Structured Generalised Response Models. <i>Methodology and Computing in Applied Probability</i> , <b>2008</b> , 10, 239-275	0.6	19
74	Mean field variational Bayes for continuous sparse signal shrinkage: Pitfalls and remedies. <i>Electronic Journal of Statistics</i> , <b>2014</b> , 8,	1.2	18
73	Robustness for general design mixed models using the t-distribution. <i>Statistical Modelling</i> , <b>2009</b> , 9, 235-255		18
72	Fast Approximate Inference for Arbitrarily Large Semiparametric Regression Models via Message Passing. <i>Journal of the American Statistical Association</i> , <b>2017</b> , 112, 137-168	2.8	17
71	Facts about the gaussian probability density function. <i>Applicable Analysis</i> , <b>1995</b> , 59, 289-306	0.8	17
70	NONPARAMETRIC AUTOCOVARANCE FUNCTION ESTIMATION. <i>The Australian Journal of Statistics</i> , <b>1997</b> , 39, 313-324		16
69	CORRECTING FOR KURTOSIS IN DENSITY ESTIMATION. <i>The Australian Journal of Statistics</i> , <b>1992</b> , 34, 19-29		16
68	Asymptotic normality and valid inference for Gaussian variational approximation. <i>Annals of Statistics</i> , <b>2011</b> , 39,	3.2	15
67	A Central Limit Theorem for Local Polynomial Backfitting Estimators. <i>Journal of Multivariate Analysis</i> , <b>1999</b> , 70, 57-65	1.4	15
66	Highest density difference region estimation with application to flow cytometric data. <i>Biometrical Journal</i> , <b>2009</b> , 51, 504-21	1.5	14
65	Generalised linear mixed model analysis via sequential Monte Carlo sampling. <i>Electronic Journal of Statistics</i> , <b>2008</b> , 2,	1.2	14

64	Fisher information for generalised linear mixed models. <i>Journal of Multivariate Analysis</i> , <b>2007</b> , 98, 1412-1416	1.4	14
63	Feature significance in generalized additive models. <i>Statistics and Computing</i> , <b>2007</b> , 17, 179-192	1.8	14
62	Semiparametric Estimation in Logistic Measurement Error Models. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , <b>1991</b> , 53, 573-585		14
61	SEMIPARAMETRIC REGRESSION AND GRAPHICAL MODELS. <i>Australian and New Zealand Journal of Statistics</i> , <b>2009</b> , 51, 9-41	0.7	13
60	The upper airway response to pollen is enhanced by exposure to combustion particulates: a pilot human experimental challenge study. <i>Environmental Health Perspectives</i> , <b>2003</b> , 111, 472-7	8.4	13
59	ADDITIVE MODELS WITH PREDICTORS SUBJECT TO MEASUREMENT ERROR. <i>Australian and New Zealand Journal of Statistics</i> , <b>2005</b> , 47, 193-202	0.7	13
58	Modeling the health effects of time-varying complex environmental mixtures: Mean field variational Bayes for lagged kernel machine regression. <i>Environmetrics</i> , <b>2018</b> , 29, e2504	1.3	12
57	Variational Inference for Count Response Semiparametric Regression. <i>Bayesian Analysis</i> , <b>2015</b> , 10,	2.3	12
56	Feature Significance in Geostatistics. <i>Journal of Computational and Graphical Statistics</i> , <b>2004</b> , 13, 954-973	1.4	12
55	On the minimization of absolute distance in kernel density estimation. <i>Statistics and Probability Letters</i> , <b>1988</b> , 6, 311-314	0.6	12
54	Streamlined mean field variational Bayes for longitudinal and multilevel data analysis. <i>Biometrical Journal</i> , <b>2016</b> , 58, 868-95	1.5	11
53	Mean field variational Bayesian inference for nonparametric regression with measurement error. <i>Computational Statistics and Data Analysis</i> , <b>2013</b> , 68, 375-387	1.6	11
52	Association of expired nitric oxide with occupational particulate exposure. <i>Environmental Health Perspectives</i> , <b>2003</b> , 111, 676-80	8.4	11
51	Finite sample performance of density estimators under moving average dependence. <i>Statistics and Probability Letters</i> , <b>1992</b> , 13, 109-115	0.6	11
50	How easy is a given density to estimate?. <i>Computational Statistics and Data Analysis</i> , <b>1993</b> , 16, 311-323	1.6	11
49	Bandwidth Choice for Density Derivatives. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , <b>1990</b> , 52, 223-232		11
48	Using Infer.NET for Statistical Analyses. <i>American Statistician</i> , <b>2011</b> , 65, 115-126	5	10
47	Accuracy of binned kernel functional approximations. <i>Computational Statistics and Data Analysis</i> , <b>1996</b> , 22, 1-16	1.6	9

46	On expectation propagation for generalised, linear and mixed models. <i>Australian and New Zealand Journal of Statistics</i> , <b>2018</b> , 60, 75-102	0.7	8
45	Variational methods for fitting complex Bayesian mixed effects models to health data. <i>Statistics in Medicine</i> , <b>2016</b> , 35, 165-88	2.3	8
44	Accurate logistic variational message passing: algebraic and numerical details. <i>Stat</i> , <b>2017</b> , 6, 102-112	0.7	7
43	GENERALIZED EXTREME VALUE ADDITIVE MODEL ANALYSIS VIA MEAN FIELD VARIATIONAL BAYES. <i>Australian and New Zealand Journal of Statistics</i> , <b>2011</b> , 53, 305-330	0.7	7
42	Variational inference for marginal longitudinal semiparametric regression. <i>Stat</i> , <b>2013</b> , 2, 61-71	0.7	6
41	Exact risk approaches to smoothing parameter selection. <i>Journal of Nonparametric Statistics</i> , <b>1997</b> , 8, 337-354	0.7	6
40	A Bandwidth Selector for Bivariate Kernel Regression. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , <b>1995</b> , 57, 171-180		6
39	Fast Computation of Auxiliary Quantities in Local Polynomial Regression. <i>Journal of Computational and Graphical Statistics</i> , <b>1996</b> , 5, 337-350	1.4	6
38	Investigating the detection limits of scent-detection dogs to residual blood odour on clothing. <i>Forensic Chemistry</i> , <b>2018</b> , 9, 62-75	2.8	6
37	Marginal longitudinal semiparametric regression via penalized splines. <i>Statistics and Probability Letters</i> , <b>2010</b> , 80, 1242-1252	0.6	5
36	Streamlined variance calculations for semiparametric mixed models. <i>Statistics in Medicine</i> , <b>2008</b> , 27, 435-48		5
35	Additive models for geo-referenced failure time data. <i>Statistics in Medicine</i> , <b>2006</b> , 25, 2469-82	2.3	5
34	Classifying antibodies using flow cytometry data: class prediction and class discovery. <i>Biometrical Journal</i> , <b>2005</b> , 47, 740-54	1.5	5
33	Variational Inference for Heteroscedastic Semiparametric Regression. <i>Australian and New Zealand Journal of Statistics</i> , <b>2015</b> , 57, 119-138	0.7	4
32	Wavelet-based gradient boosting. <i>Statistics and Computing</i> , <b>2016</b> , 26, 93-105	1.8	4
31	Variational Message Passing for Elaborate Response Regression Models. <i>Bayesian Analysis</i> , <b>2019</b> , 14,	2.3	4
30	Explicit connections between longitudinal data analysis and kernel machines. <i>Electronic Journal of Statistics</i> , <b>2009</b> , 3,	1.2	4
29	Large cell lymphoma associated with prosthetic joint debris. <i>Stat</i> , <b>2012</b> , 164, 31-2	0.7	4



28	Penalised spline support vector classifiers: computational issues. <i>Computational Statistics</i> , <b>2008</b> , 23, 623-641	4
27	Fast Computation of Auxiliary Quantities in Local Polynomial Regression. <i>Journal of Computational and Graphical Statistics</i> , <b>1996</b> , 5, 337	1.4 4
26	On the effect of density shape on the performance of its kernel estimate. <i>Statistics</i> , <b>1993</b> , 24, 215-233	0.5 4
25	Mixed Model-Based Hazard Estimation	4
24	A Conversation with Peter Hall. <i>Statistical Science</i> , <b>2016</b> , 31,	2.4 4
23	Parsimonious Classification Via Generalized Linear Mixed Models. <i>Journal of Classification</i> , <b>2010</b> , 27, 89-110	3
22	Association of expired nitric oxide with urinary metal concentrations in boilermakers exposed to residual oil fly ash. <i>American Journal of Industrial Medicine</i> , <b>2003</b> , 44, 458-66	2.7 3
21	The HLDA8 blind panel: findings and conclusions. <i>Journal of Immunological Methods</i> , <b>2005</b> , 305, 75-83	2.5 3
20	Transformations in Density Estimation: Rejoinder. <i>Journal of the American Statistical Association</i> , <b>1991</b> , 86, 360	2.8 3
19	The explicit form of expectation propagation for a simple statistical model. <i>Electronic Journal of Statistics</i> , <b>2016</b> , 10,	1.2 3
18	Generalised extreme value geoadditive model analysis via variational Bayes. <i>Procedia Environmental Sciences</i> , <b>2011</b> , 3, 8-13	2
17	Detecting antibodies with similar reactivity patterns in the HLDA8 blind panel of flow cytometry data. <i>Journal of Immunological Methods</i> , <b>2005</b> , 305, 67-74	2.5 2
16	Asymptotic effectiveness of some higher order kernels. <i>Journal of Statistical Planning and Inference</i> , <b>1992</b> , 31, 15-21	0.8 2
15	Semiparametric Regression Analysis via Infer.NET. <i>Journal of Statistical Software</i> , <b>2018</b> , 87,	7.3 2
14	Variational message passing for skew t regression. <i>Stat</i> , <b>2018</b> , 7, e196	0.7 2
13	STREAMLINED SOLUTIONS TO MULTILEVEL SPARSE MATRIX PROBLEMS. <i>ANZIAM Journal</i> , <b>2020</b> , 62, 18-41	0.5 1
12	Factor graph fragmentation of expectation propagation. <i>Journal of the Korean Statistical Society</i> , <b>2020</b> , 49, 722-756	0.5 1
11	COMPARISON OF FEATURE SIGNIFICANCE QUANTILE APPROXIMATIONS. <i>Australian and New Zealand Journal of Statistics</i> , <b>2004</b> , 46, 569-581	0.7 1

10	The Inverse G-Wishart distribution and variational message passing. <i>Australian and New Zealand Journal of Statistics</i> , <b>2021</b> , 63, 517	0.7	1
9	Density estimation via Bayesian inference engines. <i>ASTA Advances in Statistical Analysis</i> , 1	1	1
8	Streamlined variational inference for higher level group-specific curve models.. <i>Statistical Modelling</i> , <b>2021</b> , 21, 479-519	0.7	1
7	Fast and Accurate Binary Response Mixed Model Analysis via Expectation Propagation. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 115, 1902-1916	2.8	1
6	Generalised additive mixed models analysis via gammSlice. <i>Australian and New Zealand Journal of Statistics</i> , <b>2018</b> , 60, 279-300	0.7	0
5	Bringing coals to Newcastle. <i>Significance</i> , <b>2016</b> , 13, 32-37	0.5	
4	Penalized Splines. <i>Use R!</i> , <b>2018</b> , 15-70	0.3	
3	Semiparametric Regression Analysis of Grouped Data. <i>Use R!</i> , <b>2018</b> , 129-172	0.3	
2	Bivariate Function Extensions. <i>Use R!</i> , <b>2018</b> , 173-220	0.3	
1	Selection of Additional Topics. <i>Use R!</i> , <b>2018</b> , 221-314	0.3	