Wencesalo Gonzlez-Manteiga

List of Publications by Citations

164 papers	2,643 citations	29 h-index	43 g-index
167 ext. papers	2,916 ext. citations	1.4 avg, IF	5.1 L-index

#	Paper	IF	Citations
164	Outlier detection in functional data by depth measures, with application to identify abnormal NOx levels. *Environmetrics*, **2008**, 19, 331-345	1.3	137
163	A comparative study of several smoothing methods in density estimation. *Computational Statistics and Data Analysis*, **1994**, 17, 153-176	1.6	126
162	Abdominal pain after minor trauma in a patient with Crohn's disease. *Test*, **2013**, 22, 361-2	1.1	89
161	Significance testing in nonparametric regression based on the bootstrap. *Annals of Statistics*, **2001**, 29, 1469	3.2	85
160	Statistics for Functional Data. *Computational Statistics and Data Analysis*, **2007**, 51, 4788-4792	1.6	80
159	Bootstrap mean squared error of a small-area EBLUP. *Journal of Statistical Computation and Simulation*, **2008**, 78, 443-462	0.9	74
158	Asymptotic properties of a generalized kaplan-meier estimator with some applications. *Journal of Nonparametric Statistics*, **1994**, 4, 65-78	0.7	74
157	Modelling of the monthly and daily behaviour of the runoff of the Xallas river using Box-Jenkins and neural networks methods. *Journal of Hydrology*, **2004**, 296, 38-58	6	70
156	Estimation of the mean squared error of predictors of small area linear parameters under a logistic mixed model. *Computational Statistics and Data Analysis*, **2007**, 51, 2720-2733	1.6	65
155	Bootstrap Approximations in Model Checks for Regression		57
154	Goodness-of-fit test for linear models based on local polynomials. *Statistics and Probability Letters*, **1999**, 42, 39-46	0.6	50
153	Goodness-of-fit tests in parametric regression based on the estimation of the error distribution. *Test*, **2008**, 17, 401-415	1.1	49
152	A functional analysis of NOx levels: location and scale estimation and outlier detection. *Computational Statistics*, **2007**, 22, 411-427	1	47
151	Forest fire spatial pattern analysis in Galicia (NW Spain). *Journal of Environmental Management*, **2013**, 128, 30-42	7.9	43
150	Analytic and bootstrap approximations of prediction errors under a multivariate Fay-Herriot model. *Computational Statistics and Data Analysis*, **2008**, 52, 5242-5252	1.6	43
149	Strong representation of a generalized product-limit estimator for truncated and censored data with some applications. *Journal of Nonparametric Statistics*, **1999**, 10, 213-244	0.7	43
148	Artificial neural networks as a useful tool to predict the risk level of Betula pollen in the air. *International Journal of Biometeorology*, **2005**, 49, 310-6	3.7	41

147	Testing the hypothesis of a general linear model using nonparametric regression estimation. *Test*, **1993**, 2, 161-188	1.1	41
146	Generalized additive models for functional data. *Test*, **2013**, 22, 278-292	1.1	37
145	PLUG-IN ESTIMATION OF GENERAL LEVEL SETS. *Australian and New Zealand Journal of Statistics*, **2006**, 48, 7-19	0.7	37
144	Bootstrap Selection of the Smoothing Parameter in Nonparametric Hazard Rate Estimation. *Journal of the American Statistical Association*, **1996**, 91, 1130-1140	2.8	37
143	Functional Principal Component Regression and Functional Partial Least-squares Regression: An Overview and a Comparative Study. *International Statistical Review*, **2017**, 85, 61-83	1.4	36
142	Comparison of Kriging and Neural Networks With Application to the Exploitation of a Slate Mine. *Mathematical Geosciences*, **2004**, 36, 463-486		33
141	Kernel density estimation for directional⬚near data. *Journal of Multivariate Analysis*, **2013**, 121, 152-175	1.4	31
140	A Goodness-of-Fit Test for the Functional Linear Model with Scalar Response. *Journal of Computational and Graphical Statistics*, **2014**, 23, 761-778	1.4	30
139	Goodness-of-fit tests for linear regression models with missing response data. *Canadian Journal of Statistics*, **2006**, 34, 149-170	0.4	30
138	Flexible spatio-temporal stationary variogram models. *Statistics and Computing*, **2003**, 13, 127-136	1.8	30
137	A Class of Linear Regression Parameter Estimators Constructed by Nonparametric Estimation. *Annals of Statistics*, **1987**, 15, 603	3.2	30
136	Estimation and testing in a partial linear regression model under long-memory dependence. *Bernoulli*, **2004**, 10, 49	1.6	29
135	Nonparametric kernel estimation of an isotropic variogram. *Journal of Statistical Planning and Inference*, **2004**, 121, 65-92	0.8	28
134	Uniform Representation of Product-Limit Integrals with Applications. *Scandinavian Journal of Statistics*, **2005**, 32, 563-581	0.8	28
133	NN goodness-of-fit tests for linear models. *Journal of Statistical Planning and Inference*, **1996**, 53, 75-92	0.8	28
132	Exploring wind direction and SO2 concentration by circular⬚near density estimation. *Stochastic Environmental Research and Risk Assessment*, **2013**, 27, 1055-1067	3.5	24
131	ROC Curves in Non-Parametric Location-Scale Regression Models. *Scandinavian Journal of Statistics*, **2011**, 38, 169-184	0.8	24
130	Bootstrap Selection of the Smoothing Parameter in Nonparametric Hazard Rate Estimation. *Journal of the American Statistical Association*, **1996**, 91, 1130	2.8	23

129	Robust nonparametric estimation with missing data. *Journal of Statistical Planning and Inference*, **2009**, 139, 571-592	0.8	22
128	A cross-sectional epidemiological study of HBV, HCV, HDV and HEV prevalence in the SubCarpathian and South-Eastern regions of Romania. *Test*, **2010**, 19, 43-8	1.1	22
127	The choice of smoothing parameter in nonparametric regression through Wild Bootstrap. *Computational Statistics and Data Analysis*, **2004**, 47, 487-515	1.6	22
126	Support vector machines and gradient boosting for graphical estimation of a slate deposit. *Stochastic Environmental Research and Risk Assessment*, **2004**, 18, 309-323	3.5	21
125	Predicting Using Box-Jenkins, Nonparametric, and Bootstrap Techniques. *Technometrics*, **1995**, 37, 303-310	1.4	21
124	Bootstrap in functional linear regression. *Journal of Statistical Planning and Inference*, **2011**, 141, 453-461	0.8	20
123	Testing for interactions in generalized additive models: Application to SO2 pollution data. *Statistics and Computing*, **2005**, 15, 289-299	1.8	20
122	Presmoothing in functional linear regression. *Statistica Sinica*, **2012**, 22,	0.7	20
121	Bandwidth selection for kernel density estimation with length-biased data. *Journal of Nonparametric Statistics*, **2017**, 29, 636-668	0.7	19
120	Bootstrap methods in regression smoothing *. *Journal of Nonparametric Statistics*, **1993**, 2, 379-388	0.7	19
119	Small area estimation under Fay-Herriot models with non-parametric estimation of heteroscedasticity. *Statistical Modelling*, **2010**, 10, 215-239	0.7	18
118	A test for directional-linear independence, with applications to wildfire orientation and size. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 1261-1275	3.5	17
117	Prediction of SO2 pollution incidents near a power station using partially linear models and an historical matrix of predictor-response vectors. *Environmetrics*, **2000**, 11, 209-225	1.3	17
116	Bootstrap tests for nonparametric comparison of regression curves with dependent errors. *Test*, **2007**, 16, 123-144	1.1	16
115	SiZer Map for inference with additive models. *Statistics and Computing*, **2008**, 18, 297-312	1.8	16
114	Bandwidth Selection in Density Estimation with Truncated and Censored Data. *Annals of the Institute of Statistical Mathematics*, **1999**, 51, 51-70	1	16
113	Boosting GARCH and neural networks for the prediction of heteroskedastic time series. *Mathematical and Computer Modelling*, **2010**, 51, 256-271		15
112	Semi-parametric statistical approaches for space-time process prediction. *Environmental and Ecological Statistics*, **1998**, 5, 297-316	2.2	15

111	Goodness-of-fit tests for parametric models in censored regression. *Canadian Journal of Statistics*, **2007**, 35, 249-264	0.4	15
110	Testing in partial linear regression models with dependent errors. *Journal of Nonparametric Statistics*, **2003**, 15, 93-111	0.7	15
109	Prediction of SO2 levels using neural networks. *Journal of the Air and Waste Management Association*, **2003**, 53, 532-9	2.4	15
108	Asymptotic properties of local polynomial regression with missing data and correlated errors. *Annals of the Institute of Statistical Mathematics*, **2009**, 61, 85-109	1	13
107	Model checks of higher order time series. *Statistics and Probability Letters*, **2006**, 76, 1385-1396	0.6	13
106	Space-time dependency modeling using general classes of flexible stationary variogram models. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		13
105	Nonparametric comparison of curves with dependent errors. *Statistics*, **2004**, 38, 81-99	0.5	13
104	Nonparametric model checks in censored regression. *Communications in Statistics - Theory and Methods*, **2000**, 29, 1611-1629	0.5	13
103	Consistent Smooth Bootstrap Kernel Intensity Estimation for Inhomogeneous Spatial Poisson Point Processes. *Scandinavian Journal of Statistics*, **2016**, 43, 416-435	0.8	13
102	A lack-of-fit test for quantile regression models with high-dimensional covariates. *Computational Statistics and Data Analysis*, **2015**, 88, 128-138	1.6	12
101	Predicting binary time series of SO2 using generalized additive models with unknown link function. *Environmetrics*, **2004**, 15, 729-742	1.3	12
100	Local linear regression estimation of the variogram. *Statistics and Probability Letters*, **2003**, 64, 169-179	0.6	12
99	Bootstrapping the Chambers-Dunstan estimate of a finite population distribution function. *Journal of Statistical Planning and Inference*, **2003**, 116, 367-388	0.8	12
98	Extending induced ROC methodology to the functional context. *Biostatistics*, **2012**, 13, 594-608	3.7	11
97	Goodness-of-fit tests for the spatial spectral density. *Stochastic Environmental Research and Risk Assessment*, **2010**, 24, 67-79	3.5	11
96	Multivariate statistical analysis of precipitation chemistry in northwestern Spain. *Water, Air, and Soil Pollution*, **1993**, 69, 37-55	2.6	11
95	A generalized model to estimate the statistical power in mitochondrial disease studies involving 2x2 tables. *PLoS ONE*, **2013**, 8, e73567	3.7	11
94	A nonparametric test for the comparison of first-order structures of spatial point processes. *Spatial Statistics*, **2017**, 22, 240-260	2.2	10

93	Measures of influence for the functional linear model with scalar response. *Journal of Multivariate Analysis*, **2010**, 101, 327-339	1.4	10
92	A note on variable selection in nonparametric regression with dependent data. *Statistics and Probability Letters*, **2002**, 57, 259-268	0.6	10
91	Functional covariate-adjusted partial area under the specificity-ROC curve with an application to metabolic syndrome diagnosis. *Annals of Applied Statistics*, **2016**, 10,	2.1	10
90	Comparison of the epidemiological behavior of mastitis pathogens by applying time-series analysis in results of milk samples submitted for microbiological examination. *Veterinary Research Communications*, **2013**, 37, 259-67	2.9	9
89	Goodness-of-fit test for interest rate models: An approach based on empirical processes. *Computational Statistics and Data Analysis*, **2011**, 55, 3073-3092	1.6	9
88	Estimation of the marginal location under a partially linear model with missing responses. *Computational Statistics and Data Analysis*, **2010**, 54, 546-564	1.6	9
87	Testing the hypothesis of a generalized linear regression model using nonparametric regression estimation. *Journal of Statistical Planning and Inference*, **1998**, 67, 99-122	0.8	9
86	Distributional convergence under proportional censorship when covariables are present. *Statistics and Probability Letters*, **1998**, 39, 305-315	0.6	9
85	Nonparametric Mean Estimation with Missing Data. *Communications in Statistics - Theory and Methods*, **2004**, 33, 277-303	0.5	9
84	Non-parametric estimation of the odds ratios for continuous exposures using generalized additive models with an unknown link function. *Statistics in Medicine*, **2005**, 24, 1169-84	2.3	9
83	Resampling for checking linear regression models via non-parametric regression estimation. *Computational Statistics and Data Analysis*, **2000**, 35, 211-231	1.6	9
82	Accuracy of binned kernel functional approximations. *Computational Statistics and Data Analysis*, **1996**, 22, 1-16	1.6	9
81	Bootstrap selection of the smoothing parameter in density estimation under the Koziol-Green model. *Lecture Notes-monograph Series / Institute of Mathematical Statistics*, **1997**, 385-398	0	9
80	Goodness-of-fit tests for the functional linear model based on randomly projected empirical processes. *Annals of Statistics*, **2019**, 47,	3.2	9
79	Kernel smoothers and bootstrapping for semiparametric mixed effects models. *Journal of Multivariate Analysis*, **2013**, 114, 288-302	1.4	8
78	A Bootstrap Local Bandwidth Selector for Additive Models. *Journal of Computational and Graphical Statistics*, **2008**, 17, 38-55	1.4	8
77	Strong consistency under proportional censorship when covariables are present. *Statistics and Probability Letters*, **1999**, 42, 283-292	0.6	8
76	Reporting delay: a review with a simulation study and application to Spanish AIDS data. *Statistics in Medicine*, **1996**, 15, 305-21	2.3	8

75	Time-series analysis for ambient concentrations. *Atmospheric Environment Part A General Topics*, **1993**, 27, 153-158		8
74	Testing parametric models in linear-directional regression. *Scandinavian Journal of Statistics*, **2016**, 43, 1178-1191	0.8	8
73	Estimation, imputation and prediction for the functional linear model with scalar response with responses missing at random. *Computational Statistics and Data Analysis*, **2019**, 131, 91-103	1.6	7
72	Goodness-of-fit tests for conditional models under censoring and truncation. *Journal of Econometrics*, **2008**, 143, 166-190	2.6	7
71	Bootstrapping the Dorfman–Hall–Chambers–Dunstan estimator of a finite population distribution function. *Journal of Nonparametric Statistics*, **2004**, 16, 63-90	0.7	7
70	Asymptotic normality of generalized functional estimators dependent on covariables. *Journal of Statistical Planning and Inference*, **1990**, 24, 377-390	0.8	7
69	Nearest neighbor smoothing in linear regression. *Journal of Multivariate Analysis*, **1990**, 34, 61-74	1.4	7
68	Burned area prediction with semiparametric models. *International Journal of Wildland Fire*, **2016**, 25, 669	3.2	7
67	Goodness-of-fit Test for Directional Data. *Scandinavian Journal of Statistics*, **2014**, 41, 259-275	0.8	6
66	Lasso logistic regression, GSoft and the cyclic coordinate descent algorithm: application to gene expression data. *Statistical Applications in Genetics and Molecular Biology*, **2010**, 9, Article30	1.2	6
65	Nonparametric test for separability of spatio-temporal processes. *Environmetrics*, **2009**, 21, 382-399	1.3	6
64	Multivariate partially linear models. *Statistics and Probability Letters*, **2006**, 76, 1543-1549	0.6	6
63	Partly linear models on Riemannian manifolds. *Journal of Applied Statistics*, **2012**, 39, 1797-1809	1	5
62	Partially linear support vector machines applied to the prediction of mine slope movements. *Mathematical and Computer Modelling*, **2010**, 51, 206-215		5
61	Empirical likelihood based testing for regression. *Electronic Journal of Statistics*, **2008**, 2,	1.2	5
60	Variable selection in functional additive regression models. *Computational Statistics*, **2019**, 34, 469-487	1	5
59	A first-order, ratio-based nonparametric separability test for spatiotemporal point processes. *Environmetrics*, **2018**, 29, e2482	1.3	5
58	Regularized Kriging: The Support Vectors Method Applied to Kriging. *Lecture Notes in Computer Science*, **2003**, 209-216	0.9	5

57	Comparing spatial dependence structures using spectral density estimators. *Environmetrics*, **2007**, 18, 793-808	1.3	4
56	An L2 -test for comparing spatial spectral densities. *Statistics and Probability Letters*, **2008**, 78, 2543-2551	0.6	4
55	Kernel distribution function estimation under the Koziol Green model. *Journal of Statistical Planning and Inference*, **2000**, 87, 199-219	0.8	4
54	Model checks for nonparametric regression with missing data: a comparative study. *Journal of Statistical Computation and Simulation*, **2016**, 86, 3188-3204	0.9	4
53	A Critical Review of LASSO and Its Derivatives for Variable Selection Under Dependence Among Covariates. *International Statistical Review*,	1.4	4
52	Predicting trace gas concentrations using quantile regression models. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 1359-1370	3.5	3
51	A comparative study of methods for testing the equality of two or more ROC curves. *Computational Statistics*, **2018**, 33, 357-377	1	3
50	Asymptotic behavior of robust estimators in partially linear models with missing responses: the effect of estimating the missing probability on the simplified marginal estimators. *Test*, **2011**, 20, 524-548	1.1	3
49	Edgeworth expansions for nonparametric distribution estimation with applications. *Journal of Statistical Planning and Inference*, **1997**, 65, 213-231	0.8	3
48	Boosting for real and functional samples: an application to an environmental problem. *Stochastic Environmental Research and Risk Assessment*, **2008**, 22, 27-37	3.5	3
47	Regularized kriging as a generalization of simple, universal, and bayesian kriging. *Stochastic Environmental Research and Risk Assessment*, **2006**, 20, 243-258	3.5	3
46	Chi-squared Goodness-of-fit Theory under Proportional Censorship. *Journal of Statistical Planning and Inference*, **2003**, 109, 101-124	0.8	3
45	X 2 goodness-of-fit tests for polynomial regression. *Communications in Statistics Part B: Simulation and Computation*, **1998**, 27, 229-258	0.6	3
44	Linear Regression with Randomly Right-Censored Data Using Prior Nonparametric Estimation **1991**, 315-328		3
43	Goodness-of-fit test in parametric mixed effects models based on estimation of the error distribution. *Biometrika*, **2016**, 103, 133-146	2	2
42	On the Second Order Properties of the Multidimensional Periodogram for Regularly Spaced Data. *Theory of Probability and Its Applications*, **2009**, 53, 349-356	0.5	2
41	Variable selection in Functional Additive Regression Models. *Contributions To Statistics*, **2017**, 113-122	0.1	2
40	Bootstrapping kernel intensity estimation for inhomogeneous point processes with spatial covariates. *Computational Statistics and Data Analysis*, **2020**, 144, 106875	1.6	2

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39	Testing for significant differences between two spatial patterns using covariates. *Spatial Statistics*, **2020**, 40, 100379	2.2	2
38	Nonparametric spatiotemporal analysis of violent crime. A case study in the Rio de Janeiro metropolitan area. *Spatial Statistics*, **2021**, 42, 100431	2.2	2
37	Discussion on the paper Analysis of spatio-temporal mobile phone data: a case study in the metropolitan area of Milan by P. Secchi, S. Vantini and V. Vitelli. *Statistical Methods and Applications*, **2015**, 24, 325-327	0.8	1
36	A comparative simulation study of data-driven methods for estimating density level sets. *Journal of Statistical Computation and Simulation*, **2016**, 86, 236-251	0.9	1
35	Plug-in marginal estimation under a general regression model with missing responses and covariates. *Test*, **2019**, 28, 106-146	1.1	1
34	Rejoinder on: An updated review of Goodness-of-Fit tests for regression models. *Test*, **2013**, 22, 442-447	1.1	1
33	Testing in generalized partially linear models: A robust approach. *Statistics and Probability Letters*, **2013**, 83, 203-212	0.6	1
32	Goodness-of-Fit Test for Stochastic Volatility Models **2017**, 89-104		1
31	Generalized Additive Models for Functional Data. *Contributions To Statistics*, **2011**, 91-96	0.1	1
30	A General View of the Goodness-of-Fit Tests for Statistical Models. *Understanding Complex Systems*, **2011**, 3-16	0.4	1
29	Nonparametric variance function estimation with missing data. *Journal of Multivariate Analysis*, **2010**, 101, 1123-1142	1.4	1
28	Comments on: Augmenting the bootstrap to analyze high dimensional genomic data. *Test*, **2008**, 17, 40-42	1.1	1
27	Generalized minimum distance estimators of a linear model with correlated errors. *Statistical Papers*, **2001**, 42, 353-373	1	1
26	Dependence between fusion temperatures and chemical components of a certain type of coal using classical, non-parametric and bootstrap techniques. *Journal of Chemometrics*, **1990**, 4, 429-439	1.6	1
25	Managing Heterogeneity in Time Series Prediction **2019**, 366-369		1
24	A non-parametric test for comparing conditional ROC curves. *Computational Statistics and Data Analysis*, **2021**, 157, 107146	1.6	1
23	A goodness-of-fit test for the functional linear model with functional response. *Scandinavian Journal of Statistics*, **2021**, 48, 502-528	0.8	1
22	A new lack-of-fit test for quantile regression with censored data. *Scandinavian Journal of Statistics*, **2021**, 48, 655-688	0.8	1

21	Estimation of a finite population distribution function based on a linear model with unknown heteroscedastic errors. *Canadian Journal of Statistics*, **2005**, 33, 181-200	0.4	0
20	Parametric Estimation of Diffusion Processes: A Review and Comparative Study. *Mathematics*, **2021**, 9, 859	2.3	0
19	Parameter estimation of the functional linear model with scalar response with responses missing at random. *Contributions To Statistics*, **2017**, 105-111	0.1	
18	Robust inference in partially linear models with missing responses. *Statistics and Probability Letters*, **2015**, 97, 88-98	0.6	
17	Testing regression models with selection-biased data. *Annals of the Institute of Statistical Mathematics*, **2015**, 67, 411-436	1	
16	Smoothing-Based Tests with Directional Random Variables. *Studies in Systems, Decision and Control*, **2018**, 175-184	0.8	
15	The statistical impact of inflation on interest rates. *Communications in Statistics - Theory and Methods*, **2017**, 46, 6754-6763	0.5	
14	Semiparametric Prediction Models for Variables Related with Energy Production. *Mathematics in Industry*, **2017**, 3-15	0.2	
13	Resampling and Testing in Regression Models with Environmetrical Applications **2009**, 171-187		
12	Resampling and Testing in Regression Models with Environmetrical Applications **2009**, 87-97		
11	Managing distribution changes in time series prediction. *Journal of Computational and Applied Mathematics*, **2006**, 191, 206-215	2.4	
10	Prediction with Additive Models Simulation and Application with Real Data. *Communications in Statistics Part B: Simulation and Computation*, **2004**, 33, 825-842	0.6	
9	Variography for Model Selection in Local Polynomial Regression with Spatial Data. *Mathematical Modelling and Algorithms*, **2005**, 4, 237-252		
8	Una aplicacion de la estimacion no parametrica al modelo lineal general con varianza no homogenea. *Trabajos De Estadística Y De Investigación Operativa*, **1985**, 36, 70-87		
7	Almost sure representations in survival analysis under censoring and truncation. Applications to goodness-of-fit tests **2003**, 139-151		
6	Influence in the Functional Linear Model with Scalar Response. *Contributions To Statistics*, **2008**, 165-171	0.1	
5	Robust location estimators in regression models with covariates and responses missing at random. *Journal of Nonparametric Statistics*, **2020**, 32, 915-939	0.7	
4	Testing similarity between first-order intensities of spatial point processes. A comparative study. *Communications in Statistics Part B: Simulation and Computation*, 1-42	0.6	

List of Publications

3   Goodness-of-fit tests for censored regression based on artificial data points. *Test*, **2020**, 29, 599-615   1.1

2   Goodness-of-fit tests for quantile regression with missing responses. *Statistical Papers*, **2021**, 62, 1231-1264

1   A Review of Goodness-of-Fit Tests for Models Involving Functional Data. *Studies in Systems, Decision and Control*, **2023**, 349-358   0.8