

# Maria Dolores Ugarte

## List of Publications by Year in descending order

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109  
papers

2,061  
citations

279487

23  
h-index

329751

37  
g-index

125  
all docs

125  
docs citations

125  
times ranked

2281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gender, age, socio-demographic and lifestyle factors associated with major dietary patterns in the Spanish Project SUN (Seguimiento Universidad de Navarra). <i>European Journal of Clinical Nutrition</i> , 2003, 57, 285-292.	1.3	164
2	On fitting spatio-temporal disease mapping models using approximate Bayesian inference. <i>Statistical Methods in Medical Research</i> , 2014, 23, 507-530.	0.7	78
3	Relation between Temperature and Mortality in Thirteen Spanish Cities. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 3196-3210.	1.2	72
4	Alternative Models for Describing Spatial Dependence among Dwelling Selling Prices. <i>Journal of Real Estate Finance and Economics</i> , 2004, 29, 193-209.	0.8	66
5	Detecting Interaction Between Random Region and Fixed Age Effects in Disease Mapping. <i>Biometrics</i> , 2001, 57, 197-202.	0.8	58
6	A longitudinal study of antioxidant status in phenylketonuric patients. <i>Clinical Biochemistry</i> , 2004, 37, 198-203.	0.8	57
7	Spatio-temporal modeling of mortality risks using penalized splines. <i>Environmetrics</i> , 2010, 21, 270-289.	0.6	57
8	On the Performances of Trend and Change-Point Detection Methods for Remote Sensing Data. <i>Remote Sensing</i> , 2020, 12, 1008.	1.8	50
9	Sustainability of traditional pastoral fires in highlands under global change: Effects on soil function and nutrient cycling. <i>Agriculture, Ecosystems and Environment</i> , 2016, 235, 155-163.	2.5	48
10	In spatio-temporal disease mapping models, identifiability constraints affect PQL and INLA results. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 749-770.	1.9	45
11	A taxometric analysis of schizophrenia symptoms. <i>Psychiatry Research</i> , 2007, 150, 245-253.	1.7	41
12	The use of mixture models for identifying high risks in disease mapping. <i>Statistics in Medicine</i> , 2001, 20, 2035-2049.	0.8	37
13	Tailoring the structural and magnetic properties of Co-Zn nanosized ferrites for hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 211-219.	1.0	37
14	Spline smoothing in small area trend estimation and forecasting. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 3616-3629.	0.7	36
15	Cold storage of initial plant material affects positively somatic embryogenesis in <i>Pinus radiata</i> . <i>New Forests</i> , 2015, 46, 309-317.	0.7	35
16	Environmental conditions at the initial stages of <i>Pinus radiata</i> somatic embryogenesis affect the production of somatic embryos. <i>Trees - Structure and Function</i> , 2016, 30, 949-958.	0.9	35
17	A statistical algorithm showing coenzyme Q10 and citrate synthase as biomarkers for mitochondrial respiratory chain enzyme activities. <i>Scientific Reports</i> , 2016, 6, 15.	1.6	34
18	Effect of Thermal Stress on Tissue Ultrastructure and Metabolite Profiles During Initiation of <i>Radiata</i> Pine Somatic Embryogenesis. <i>Frontiers in Plant Science</i> , 2018, 9, 2004.	1.7	34

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19	Evaluating the performance of spatio-temporal Bayesian models in disease mapping. <i>Environmetrics</i> , 2009, 20, 647-665.	0.6	32
20	Enhancement of self-regulation, assertiveness, and empathy. <i>Learning and Instruction</i> , 2003, 13, 423-439.	1.9	31
21	Spatio-temporal trends in gastric cancer mortality in Spain: 1975-2008. <i>Cancer Epidemiology</i> , 2013, 37, 360-369.	0.8	28
22	Penalized quasi-likelihood with spatially correlated data. <i>Computational Statistics and Data Analysis</i> , 2004, 45, 235-248.	0.7	27
23	Empirical Bayes and Fully Bayes procedures to detect high-risk areas in disease mapping. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 2938-2949.	0.7	25
24	One-dimensional, two-dimensional, and three dimensional B-splines to specify space-time interactions in Bayesian disease mapping: Model fitting and model identifiability. <i>Spatial Statistics</i> , 2017, 22, 451-468.	0.9	22
25	Temperature and Water Availability During Maturation Affect the Cytokinins and Auxins Profile of Radiata Pine Somatic Embryos. <i>Frontiers in Plant Science</i> , 2018, 9, 1898.	1.7	22
26	Crime Against Women in India: Unveiling Spatial Patterns and Temporal Trends of Dowry Deaths in the Districts of Uttar Pradesh. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2020, 183, 655-679.	0.6	22
27	Immediate and long-term effects of a cognitive intervention on intelligence, self-regulation, and academic achievement. <i>European Journal of Psychology of Education</i> , 2003, 18, 59-74.	1.3	21
28	Prediction error estimators in Empirical Bayes disease mapping. <i>Environmetrics</i> , 2008, 19, 287-300.	0.6	21
29	A P-spline ANOVA type model in space-time disease mapping. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012, 26, 835-845.	1.9	21
30	<i>Pinus halepensis</i> somatic embryogenesis is affected by the physical and chemical conditions at the initial stages of the process. <i>Journal of Forest Research</i> , 2016, 21, 143-150.	0.7	21
31	A two-stage approach to estimate spatial and spatio-temporal disease risks in the presence of local discontinuities and clusters. <i>Statistical Methods in Medical Research</i> , 2019, 28, 2595-2613.	0.7	21
32	Modelling risks in disease mapping. <i>Statistical Methods in Medical Research</i> , 2006, 15, 21-35.	0.7	20
33	Benchmarked estimates in small areas using linear mixed models with restrictions. <i>Test</i> , 2009, 18, 342-364.	0.7	20
34	Projections of cancer mortality risks using spatio-temporal P-spline models. <i>Statistical Methods in Medical Research</i> , 2012, 21, 545-560.	0.7	20
35	Comparing CAR and P-spline models in spatial disease mapping. <i>Environmental and Ecological Statistics</i> , 2012, 19, 573-599.	1.9	20
36	Functional time series analysis of spatio-temporal epidemiological data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 943-954.	1.9	20

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37	Smoothing and high risk areas detection in space-time disease mapping: a comparison of P-splines, autoregressive, and moving average models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 403-415.	1.9	19
38	Stochastic Spatio-Temporal Models for Analysing NDVI Distribution of GIMMS NDVI3g Images. <i>Remote Sensing</i> , 2017, 9, 76.	1.8	19
39	Induction of Radiata Pine Somatic Embryogenesis at High Temperatures Provokes a Long-Term Decrease in DNA Methylation/Hydroxymethylation and Differential Expression of Stress-Related Genes. <i>Plants</i> , 2020, 9, 1762.	1.6	19
40	Probability and Statistics with R. , 0, , .		19
41	Analyzing Censored Spatial Data. <i>Mathematical Geosciences</i> , 1999, 31, 551-561.	0.9	18
42	Age-space-time CAR models in Bayesian disease mapping. <i>Statistics in Medicine</i> , 2016, 35, 2391-2405.	0.8	18
43	Cytokinins are involved in drought tolerance of <i>Pinus radiata</i> plants originating from embryonal masses induced at high temperatures. <i>Tree Physiology</i> , 2021, 41, 912-926.	1.4	18
44	Alleviating confounding in spatio-temporal areal models with an application on crimes against women in India. <i>Statistical Modelling</i> , 2023, 23, 9-30.	0.5	18
45	Spatial gender-age-period-cohort analysis of pancreatic cancer mortality in Spain (1990â€“2013). <i>PLoS ONE</i> , 2017, 12, e0169751.	1.1	18
46	Outliers detection in multivariate spatial linear models. <i>Journal of Statistical Planning and Inference</i> , 2006, 136, 125-146.	0.4	17
47	Interpolation of the Mean Anomalies for Cloud Filling in Land Surface Temperature and Normalized Difference Vegetation Index. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6068-6078.	2.7	17
48	Bayesian inference in multivariate spatio-temporal areal models using INLA: analysis of gender-based violence in small areas. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1421-1440.	1.9	17
49	Testing for Poisson Zero Inflation in Disease Mapping. <i>Biometrical Journal</i> , 2004, 46, 526-539.	0.6	16
50	Age-Specific Spatio-Temporal Patterns of Female Breast Cancer Mortality in Spain (1975â€“2005). <i>Annals of Epidemiology</i> , 2010, 20, 906-916.	0.9	16
51	Modelling aboveground tree biomass while achieving the additivity property. <i>Environmental and Ecological Statistics</i> , 2011, 18, 367-384.	1.9	15
52	Interpolation of daily rainfall using spatiotemporal models and clustering. <i>International Journal of Climatology</i> , 2015, 35, 1453-1464.	1.5	15
53	Two-level spatially structured models in spatio-temporal disease mapping. <i>Statistical Methods in Medical Research</i> , 2016, 25, 1080-1100.	0.7	15
54	Assessing the covariance function in geostatistics. <i>Statistics and Probability Letters</i> , 2001, 52, 199-206.	0.4	13

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55	Detection of spatial variation in risk when using CAR models for smoothing relative risks. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 33-40.	1.9	13
56	Scalable Bayesian modelling for smoothing disease risks in large spatial data sets using INLA. <i>Spatial Statistics</i> , 2021, 41, 100496.	0.9	13
57	Gender-specific spatio-temporal patterns of colorectal cancer incidence in Navarre, Spain (1990-2005). <i>Cancer Epidemiology</i> , 2012, 36, 254-262.	0.8	12
58	Two-level resolution of relative risk of dengue disease in a hyperendemic city of Colombia. <i>PLoS ONE</i> , 2018, 13, e0203382.	1.1	12
59	SEARCHING FOR HOUSING SUBMARKETS USING MIXTURES OF LINEAR MODELS. <i>Advances in Econometrics</i> , 0, , 259-276.	0.2	11
60	Using small area models to estimate the total area occupied by olive trees. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2006, 11, 450-461.	0.7	11
61	A BLUP Synthetic Versus an EBLUP Estimator: An Empirical Study of a Small Area Estimation Problem. <i>Journal of Applied Statistics</i> , 2007, 34, 153-165.	0.6	11
62	Longitudinal analysis of spatially correlated data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 49-57.	1.9	10
63	Deriving Small Area Estimates from Information Technology Business Surveys. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2015, 178, 1051-1067.	0.6	10
64	Online relative risks/rates estimation in spatial and spatio-temporal disease mapping. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 172, 103-116.	2.6	10
65	Flexible Bayesian P-splines for smoothing age-specific spatio-temporal mortality patterns. <i>Statistical Methods in Medical Research</i> , 2019, 28, 384-403.	0.7	10
66	Pinus spp. Somatic Embryo Conversion under High Temperature: Effect on the Morphological and Physiological Characteristics of Plantlets. <i>Forests</i> , 2020, 11, 1181.	0.9	10
67	A gm estimation of the location parameters in a spatial linear model. <i>Communications in Statistics - Theory and Methods</i> , 1997, 26, 1701-1725.	0.6	9
68	Evaluating space-time models for short-term cancer mortality risk predictions in small areas. <i>Biometrical Journal</i> , 2014, 56, 383-402.	0.6	9
69	Analyzing the evolution of young people's brain cancer mortality in Spanish provinces. <i>Cancer Epidemiology</i> , 2015, 39, 480-485.	0.8	9
70	Joint modelling of brain cancer incidence and mortality using Bayesian age- and gender-specific shared component models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 2951-2969.	1.9	9
71	Dealing with risk discontinuities to estimate cancer mortality risks when the number of small areas is large. <i>Statistical Methods in Medical Research</i> , 2021, 30, 6-21.	0.7	9
72	Estimating the percentage of food expenditure in small areas using bias-corrected -spline based estimators. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2934-2948.	0.7	8

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73	New trends on the permutability equation. <i>Aequationes Mathematicae</i> , 2014, 88, 211-232.	0.4	8
74	Temporal evolution of brain cancer incidence in the municipalities of Navarre and the Basque Country, Spain. <i>BMC Public Health</i> , 2015, 15, 1018.	1.2	8
75	Filling missing data and smoothing altered data in satellite imagery with a spatial functional procedure. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1737-1750.	1.9	8
76	Short communication: The effect of changing temperature and agar concentration at proliferation stage in the final success of Aleppo pine somatic embryogenesis. <i>Forest Systems</i> , 2018, 26, eSC05.	0.1	8
77	Multivariate Bayesian spatio-temporal P-spline models to analyze crimes against women. <i>Biostatistics</i> , 2023, 24, 562-584.	0.9	8
78	Are we able to modulate the response of somatic embryos of pines to drought stress?. <i>Acta Horticulturae</i> , 2017, , 77-84.	0.1	7
79	Using RGISTools to Estimate Water Levels in Reservoirs and Lakes. <i>Remote Sensing</i> , 2020, 12, 1934.	1.8	7
80	Age- and sex-specific spatio-temporal patterns of colorectal cancer mortality in Spain (1975-2008). <i>Population Health Metrics</i> , 2014, 12, 17.	1.3	6
81	Hybrid Pine ( <i>Pinus attenuata</i> Ñ— <i>Pinus radiata</i> ) Somatic Embryogenesis: What Do You Prefer, Mother or Nurse?. <i>Forests</i> , 2021, 12, 45.	0.9	6
82	Robust trend parameters in a multivariate spatial linear model. <i>Test</i> , 2003, 12, 445-457.	0.7	5
83	Confidence Intervals for Relative Risks in Disease Mapping. <i>Biometrical Journal</i> , 2003, 45, 410-425.	0.6	5
84	Testing for space-time interaction in conditional autoregressive models. <i>Environmetrics</i> , 2012, 23, 3-11.	0.6	5
85	Mapping GPS positional errors using spatial linear mixed models. <i>Journal of Geodesy</i> , 2013, 87, 675-685.	1.6	5
86	Detecting Change-Points in the Time Series of Surfaces Occupied by Pre-defined NDVI Categories in Continental Spain from 1981 to 2015. <i>Studies in Systems, Decision and Control</i> , 2018, , 295-307.	0.8	5
87	Robust Predictions of Rainfall in Navarre, Spain. <i>Quantitative Geology and Geostatistics</i> , 2001, , 79-90.	0.1	5
88	Identifying extreme COVID-19 mortality risks in English small areas: a disease cluster approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 2995-3010.	1.9	5
89	High temperature and water deficit cause epigenetic changes in somatic plants of <i>Pinus radiata</i> D. Don. <i>Plant Cell, Tissue and Organ Culture</i> , 2022, 151, 107-121.	1.2	5
90	Goals and Personality in Adolescents. <i>School Psychology International</i> , 2006, 27, 370-381.	1.1	4

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91	Combining sampling and model weights in agriculture small area estimation. <i>Environmetrics</i> , 2007, 18, 87-99.	0.6	4
92	An Introduction to the Spatio-Temporal Analysis of Satellite Remote Sensing Data for Geostatisticians. , 2018, , 239-253.		4
93	Steering the synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles under sonication by using a fractional factorial design. <i>Materials Chemistry and Physics</i> , 2021, 270, 124760.	2.0	4
94	Estimating LOCP cancer mortality rates in small domains in Spain using its relationship with lung cancer. <i>Scientific Reports</i> , 2021, 11, 22273.	1.6	4
95	Checking unimodality using isotonic regression: an application to breast cancer mortality rates. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 1277-1288.	1.9	3
96	Improving the Quality of Satellite Imagery Based on Ground-Truth Data from Rain Gauge Stations. <i>Remote Sensing</i> , 2018, 10, 398.	1.8	3
97	Space-time analysis of ovarian cancer mortality rates by age groups in spanish provinces (1989â€“2015). <i>BMC Public Health</i> , 2020, 20, 1244.	1.2	3
98	Machine Learning Procedures for Daily Interpolation of Rainfall in Navarre (Spain). <i>Studies in Systems, Decision and Control</i> , 2023, , 399-413.	0.8	3
99	Adjusting economic estimates in business surveys. <i>Journal of Applied Statistics</i> , 2008, 35, 1253-1265.	0.6	2
100	Comments on: Missing data methods in longitudinal studies: a review. <i>Test</i> , 2009, 18, 44-46.	0.7	2
101	Locally adaptive change-point detection (LACPD) with applications to environmental changes. <i>Stochastic Environmental Research and Risk Assessment</i> , 0, , 1.	1.9	1
102	The use of mixture models for identifying high risks in disease mapping. , 2001, 20, 2035.		1
103	Space-time interactions in Bayesian disease mapping with recent tools: Making things easier for practitioners. <i>Statistical Methods in Medical Research</i> , 2022, 31, 1085-1103.	0.7	1
104	A cohort study to estimate occupational mortality risks in Navarra. <i>European Journal of Public Health</i> , 2005, 15, 305-312.	0.1	0
105	Statistical Modelling in GLIM4, 2nd edn by M. Aitkin, B. Francis and J. Hinde. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2006, 169, 652-652.	0.6	0
106	More on functional data analysis and other aspects in OODA. <i>Biometrical Journal</i> , 2014, 56, 786-789.	0.6	0
107	Comments on: "Single and two-stage cross-sectional and time series benchmarking procedures for small area estimation". <i>Test</i> , 2014, 23, 680-685.	0.7	0
108	GEOMED 2013 Editorial. <i>Statistical Methods in Medical Research</i> , 2014, 23, 487-487.	0.7	0

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109	Bayesian Modeling Approach in Big Data Contexts: an Application in Spatial Epidemiology. , 2020, , .		0