

# Montserrat Fuentes

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,142  
citations

304743

22  
h-index

233421

45  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2331  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Partition-Based Nonstationary Covariance Estimation Using the Stochastic Score Approximation. Journal of Computational and Graphical Statistics, 2022, 31, 1025-1036.                                    | 1.7 | 2         |
| 2  | SMOOTH DENSITY SPATIAL QUANTILE REGRESSION. Statistica Sinica, 2021, 31, .   | 0.3 | 0         |
| 3  | The impact of population mobility on estimates of environmental exposure effects in a caseâ€control study. Statistics in Medicine, 2020, 39, 1610-1622.  | 1.6 | 4         |
| 4  | Multi-element effects on arsenate accumulation in a geochemical matrix determined using $\mu$ -XRF, $\mu$ -XANES and spatial statistics. Journal of Synchrotron Radiation, 2019, 26, 1967-1979.          | 2.4 | 11        |
| 5  | A non-stationary spatial model for temperature interpolation applied to the state of Rio de Janeiro. Journal of the Royal Statistical Society Series C: Applied Statistics, 2017, 66, 919-939.           | 1.0 | 1         |
| 6  | Hurricane Wind Fields, Multivariate Modeling. , 2017, , 878-894.   |     | 0         |
| 7  | Bayesian multinomial probit modeling of daily windows of susceptibility for maternal PM <sub>2.5</sub> exposure and congenital heart defects. Statistics in Medicine, 2016, 35, 2786-2801.               | 1.6 | 19        |
| 8  | Comparison of Distributional Statistics of Aquarius and Argo Sea Surface Salinity Measurements. Journal of Atmospheric and Oceanic Technology, 2016, 33, 103-118.  | 1.3 | 2         |
| 9  | Fused Adaptive Lasso for Spatial and Temporal Quantile Function Estimation. Technometrics, 2016, 58, 127-137.  | 1.9 | 19        |
| 10 | Hurricane Wind Fields, Multivariate Modeling. , 2016, , 1-17.  |     | 0         |
| 11 | Quantile regression for mixed models with an application to examine blood pressure trends in China. Annals of Applied Statistics, 2015, 9, 1226-1246.  | 1.1 | 12        |
| 12 | Multilevel Quantile Function Modeling with Application to Birth Outcomes. Biometrics, 2015, 71, 508-519.   | 1.4 | 11        |
| 13 | Spatial Variable Selection Methods for Investigating Acute Health Effects of Fine Particulate Matter Components. Biometrics, 2015, 71, 167-177.  | 1.4 | 19        |
| 14 | Spatial Bayesian Nonparametric Methods. , 2015, , 347-357.   |     | 4         |
| 15 | Maternal Exposure to Criteria Air Pollutants and Congenital Heart Defects in Offspring: Results from the National Birth Defects Prevention Study. Environmental Health Perspectives, 2014, 122, 863-872. | 6.0 | 82        |
| 16 | Multivariate spatial modeling of conditional dependence in microscale soil elemental composition data. Spatial Statistics, 2014, 9, 93-108.  | 1.9 | 10        |
| 17 | Nonparametric spatial models for extremes: application to extreme temperature data. Extremes, 2013, 16, 75-101.  | 1.0 | 45        |
| 18 | Comparing exposure metrics for the effects of fine particulate matter on emergency hospital admissions. Journal of Exposure Science and Environmental Epidemiology, 2013, 23, 627-636.                   | 3.9 | 16        |

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|----|--|-----|-----------|
| 19 | Multivariate spatial nonparametric modelling via kernel processes mixing. <i>Statistica Sinica</i> , 2013, 23, .   | 0.3 | 8         |
| 20 | Bayesian spatial-temporal model for cardiac congenital anomalies and ambient air pollution risk assessment. <i>Environmetrics</i> , 2012, 23, 673-684.   | 1.4 | 18        |
| 21 | Estimating the Health Impact of Climate Change With Calibrated Climate Model Output. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 377-394.                             | 1.4 | 13        |
| 22 | Comparison of exposure estimation methods for air pollutants: Ambient monitoring data and regional air quality simulation. <i>Environmental Research</i> , 2012, 116, 1-10.                                    | 7.5 | 96        |
| 23 | Bayesian modeling for large spatial datasets. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2012, 4, 59-66.   | 3.9 | 25        |
| 24 | Variable Selection for High Dimensional Bayesian Density Estimation: Application to Human Exposure Simulation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 47-66. | 1.0 | 5         |
| 25 | Spatial-temporal Modeling of the Association between Air Pollution Exposure and Preterm Birth: Identifying Critical Windows of Exposure. <i>Biometrics</i> , 2012, 68, 1157-1167.                              | 1.4 | 68        |
| 26 | Nonparametric Bayesian models for a spatial covariance. <i>Statistical Methodology</i> , 2012, 9, 265-274.   | 0.5 | 15        |
| 27 | Circular conditional autoregressive modeling of vector fields. <i>Environmetrics</i> , 2012, 23, 46-53.  | 1.4 | 23        |
| 28 | Calibration of Numerical Model Output Using Nonparametric Spatial Density Functions. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 531-553.                             | 1.4 | 7         |
| 29 | Trellis display for modeling data from designed experiments. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 133-145.   | 2.8 | 6         |
| 30 | Bayesian Spatial Quantile Regression. <i>Journal of the American Statistical Association</i> , 2011, 106, 6-20.  | 3.1 | 155       |
| 31 | Non-Gaussian and Nonparametric Models for Continuous Spatial Data. <i>Chapman &amp; Hall/CRC Interdisciplinary Statistics Series</i> , 2010, , 149-167.  | 0.4 | 8         |
| 32 | Spectral Domain. <i>Chapman &amp; Hall/CRC Interdisciplinary Statistics Series</i> , 2010, , 57-77.  | 0.4 | 8         |
| 33 | Statistical issues in health impact assessment at the state and local levels. <i>Air Quality, Atmosphere and Health</i> , 2009, 2, 47-55.  | 3.3 | 16        |
| 34 | Spatial-temporal association between fine particulate matter and daily mortality. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 2989-3000.   | 1.2 | 40        |
| 35 | Multivariate Spatial-Temporal Modeling and Prediction of Speciated Fine Particles. <i>Journal of Statistical Theory and Practice</i> , 2009, 3, 407-418.   | 0.5 | 22        |
| 36 | A comparative study of Gaussian geostatistical models and Gaussian Markov random field models. <i>Journal of Multivariate Analysis</i> , 2008, 99, 1681-1697.  | 1.0 | 36        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Comments on: Assessing probabilistic forecasts of multivariate quantities, with an application to ensemble predictions of surface winds. <i>Test</i> , 2008, 17, 245-248.                               | 1.1 | 3         |
| 38 | A class of nonseparable and nonstationary spatial temporal covariance functions. <i>Environmetrics</i> , 2008, 19, 487-507.   | 1.4 | 55        |
| 39 | Testing lack of symmetry in spatial-temporal processes. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 2847-2866.  | 0.6 | 9         |
| 40 | Hurricane Wind Fields, <i>Multivariate Modeling</i> , 2008, , 448-461.  |     | 0         |
| 41 | A multivariate semiparametric Bayesian spatial modeling framework for hurricane surface wind fields. <i>Annals of Applied Statistics</i> , 2007, 1, 249.  | 1.1 | 90        |
| 42 | Approximate Likelihood for Large Irregularly Spaced Spatial Data. <i>Journal of the American Statistical Association</i> , 2007, 102, 321-331.  | 3.1 | 166       |
| 43 | Bayesian entropy for spatial sampling design of environmental data. <i>Environmental and Ecological Statistics</i> , 2007, 14, 323-340.   | 3.5 | 79        |
| 44 | Sensitivity Of Ecological Models To Their Climate Drivers: Statistical Ensembles For Forcing. , 2006, 16, 99-116.   |     | 21        |
| 45 | Spatial Association between Speciated Fine Particles and Mortality. <i>Biometrics</i> , 2006, 62, 855-863.  | 1.4 | 50        |
| 46 | Testing for separability of spatial-temporal covariance functions. <i>Journal of Statistical Planning and Inference</i> , 2006, 136, 447-466.   | 0.6 | 103       |
| 47 | A Real-Time Hurricane Surface Wind Forecasting Model: Formulation and Verification. <i>Monthly Weather Review</i> , 2006, 134, 1355-1370.   | 1.4 | 102       |
| 48 | Model Evaluation and Spatial Interpolation by Bayesian Combination of Observations with Outputs from Numerical Models. <i>Biometrics</i> , 2005, 61, 36-45.   | 1.4 | 207       |
| 49 | Modeling and predicting complex space-time structures and patterns of coastal wind fields. <i>Environmetrics</i> , 2005, 16, 449-464.   | 1.4 | 34        |
| 50 | A formal test for nonstationarity of spatial stochastic processes. <i>Journal of Multivariate Analysis</i> , 2005, 96, 30-54.   | 1.0 | 62        |
| 51 | Sampling and Statistical Considerations for Hydroacoustic Surveys Used in Estimating Abundance of Forage Fishes in Reservoirs. <i>North American Journal of Fisheries Management</i> , 2005, 25, 73-85. | 1.0 | 12        |
| 52 | Mesoscale variability of Sea-viewing Wide Field-of-view Sensor (SeaWiFS) satellite ocean color: Global patterns and spatial scales. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.        | 3.3 | 96        |
| 53 | Statistical assessment of geographic areas of compliance with air quality standards. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.   | 3.3 | 8         |
| 54 | Interpolation of nonstationary air pollution processes: a spatial spectral approach. <i>Statistical Modelling</i> , 2002, 2, 281-298.   | 1.1 | 48        |

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|----|--|-----|-----------|
| 55 | A high frequency kriging approach for non-stationary environmental processes. Environmetrics, 2001, 12, 469-483.   | 1.4 | 122       |
| 56 | Fixed-Domain Asymptotics for Variograms Using Subsampling. Mathematical Geosciences, 2001, 33, 679-691.  | 0.9 | 1         |
| 57 | Predicting integrals of diffusion processes with unknown diffusion parameters. Stochastic and Stochastics Reports, 2000, 69, 255-283.                                  | 0.6 | 0         |
| 58 | Threshold Dependence of Mortality Effects for Fine and Coarse Particles in Phoenix, Arizona. Journal of the Air and Waste Management Association, 2000, 50, 1367-1379. | 1.9 | 43        |