

Sonja Greven

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,519
citations

331670

21
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiovascular Events during World Cup Soccer. <i>New England Journal of Medicine</i> , 2008, 358, 475-483.	27.0	368
2	Size and power of tests for a zero random effect variance or polynomial regression in additive and linear mixed models. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 3283-3299.	1.2	255
3	Air Pollution and Inflammation (Interleukin-6, C-Reactive Protein, Fibrinogen) in Myocardial Infarction Survivors. <i>Environmental Health Perspectives</i> , 2007, 115, 1072-1080.	6.0	252
4	On the behaviour of marginal and conditional AIC in linear mixed models. <i>Biometrika</i> , 2010, 97, 773-789.	2.4	187
5	Multivariate Functional Principal Component Analysis for Data Observed on Different (Dimensional) Domains. <i>Journal of the American Statistical Association</i> , 2018, 113, 649-659.	3.1	187
6	Functional Additive Mixed Models. <i>Journal of Computational and Graphical Statistics</i> , 2015, 24, 477-501.	1.7	147
7	Longitudinal functional principal component analysis. <i>Electronic Journal of Statistics</i> , 2010, 4, 1022-1054.	0.7	123
8	Restricted Likelihood Ratio Testing for Zero Variance Components in Linear Mixed Models. <i>Journal of Computational and Graphical Statistics</i> , 2008, 17, 870-891.	1.7	100
9	Penalized function-on-function regression. <i>Computational Statistics</i> , 2015, 30, 539-568.	1.5	84
10	A general framework for functional regression modelling. <i>Statistical Modelling</i> , 2017, 17, 1-35.	1.1	79
11	An Approach to the Estimation of Chronic Air Pollution Effects Using Spatio-Temporal Information. <i>Journal of the American Statistical Association</i> , 2011, 106, 396-406.	3.1	57
12	Common Genetic Polymorphisms and Haplotypes of Fibrinogen Alpha, Beta, and Gamma Chains Affect Fibrinogen Levels and the Response to Proinflammatory Stimulation in Myocardial Infarction Survivors. <i>Journal of the American College of Cardiology</i> , 2008, 52, 941-952.	2.8	50
13	Structured Functional Principal Component Analysis. <i>Biometrics</i> , 2015, 71, 247-257.	1.4	41
14	Longitudinal scalar-on-functions regression with application to tractography data. <i>Biostatistics</i> , 2013, 14, 447-461.	1.5	38
15	DNA variants, plasma levels and variability of C-reactive protein in myocardial infarction survivors: results from the AIRGENE study. <i>European Heart Journal</i> , 2008, 29, 1250-1258.	2.2	37
16	The functional linear array model. <i>Statistical Modelling</i> , 2015, 15, 279-300.	1.1	37
17	Fibrinogen Genes Modify the Fibrinogen Response to Ambient Particulate Matter. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 484-491.	5.6	34
18	Generalized functional additive mixed models. <i>Electronic Journal of Statistics</i> , 2016, 10, .	0.7	34

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19	Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. <i>Annals of Applied Statistics</i> , 2014, 8, 2175-2202.	1.1	33
20	Functional linear mixed models for irregularly or sparsely sampled data. <i>Statistical Modelling</i> , 2016, 16, 67-88.	1.1	25
21	Joint modeling of longitudinal autoantibody patterns and progression to type 1 diabetes: results from the TEDDY study. <i>Acta Diabetologica</i> , 2017, 54, 1009-1017.	2.5	24
22	Variability of Serial Lipoprotein-Associated Phospholipase A2 Measurements in Post-Myocardial Infarction Patients: Results from the AIRGENE Study Center Augsburg. <i>Clinical Chemistry</i> , 2008, 54, 124-130.	3.2	23
23	Serotonin Selective Reuptake Inhibitor Treatment Improves Cognition and Grey Matter Atrophy but not Amyloid Burden During Two-Year Follow-Up in Mild Cognitive Impairment and Alzheimer's Disease Patients with Depressive Symptoms. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 793-806.	2.6	23
24	Boosting flexible functional regression models with a high number of functional historical effects. <i>Statistics and Computing</i> , 2017, 27, 913-926.	1.5	22
25	Conditional Model Selection in Mixed-Effects Models with $cAIC_4$. <i>Journal of Statistical Software</i> , 2021, 99, .	3.7	22
26	Reproducibility in Serial C-Reactive Protein and Interleukin-6 Measurements in Post-Myocardial Infarction Patients: Results from the AIRGENE Study. <i>Clinical Chemistry</i> , 2010, 56, 861-864.	3.2	19
27	Modelling a response as a function of high-frequency count data: The association between physical activity and fat mass. <i>Statistical Methods in Medical Research</i> , 2017, 26, 2210-2226.	1.5	19
28	A Parametric Model for Studying Organism Fitness Using Step-Stress Experiments. <i>Biometrics</i> , 2004, 60, 793-799.	1.4	18
29	Penalized scalar-on-functions regression with interaction term. <i>Computational Statistics and Data Analysis</i> , 2015, 81, 38-51.	1.2	18
30	Ambient Air Pollution and Lipoprotein-Associated Phospholipase A ₂ in Survivors of Myocardial Infarction. <i>Environmental Health Perspectives</i> , 2011, 119, 921-926.	6.0	16
31	Flexible Bayesian additive joint models with an application to type 1 diabetes research. <i>Biometrical Journal</i> , 2017, 59, 1144-1165.	1.0	15
32	Boosting Factor-Specific Functional Historical Models for the Detection of Synchronization in Bioelectrical Signals. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 621-642.	1.0	14
33	Boosting Functional Regression Models with $FDboost$. <i>Journal of Statistical Software</i> , 2020, 94, .	3.7	14
34	Restricted likelihood ratio testing in linear mixed models with general error covariance structure. <i>Electronic Journal of Statistics</i> , 2011, 5, .	0.7	10
35	Mixed modeling for irregularly sampled and correlated functional data: Speech science applications. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 935-946.	1.1	9
36	Selective inference after likelihood- or test-based model selection in linear models. <i>Statistics and Probability Letters</i> , 2018, 140, 7-12.	0.7	7

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37	Nonlinear association structures in flexible Bayesian additive joint models. <i>Statistics in Medicine</i> , 2018, 37, 4771-4788.	1.6	7
38	A general framework for multivariate functional principal component analysis of amplitude and phase variation. <i>Stat</i> , 2019, 8, e220.	0.4	7
39	Fast symmetric additive covariance smoothing. <i>Computational Statistics and Data Analysis</i> , 2018, 120, 25-41.	1.2	6
40	Signal Regression Models for Location, Scale and Shape with an Application to Stock Returns. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 665-686.	1.0	6
41	The impact of model assumptions in scalar functional regression. <i>Statistics in Medicine</i> , 2018, 37, 4298-4317.	1.6	6
42	Inference for L_2 -Boosting. <i>Statistics and Computing</i> , 2020, 30, 279-289.	1.5	5
43	Multivariate functional additive mixed models. <i>Statistical Modelling</i> , 2023, 23, 303-326.	1.1	5
44	Elastic Analysis of Irregularly or Sparsely Sampled Curves. <i>Biometrics</i> , 2023, 79, 2103-2115.	1.4	5
45	On likelihood ratio testing for penalized splines. <i>ASA Advances in Statistical Analysis</i> , 2013, 97, 387-402.	0.9	4
46	Predicting Question Difficulty in Web Surveys: A Machine Learning Approach Based on Mouse Movement Features. <i>Social Science Computer Review</i> , 2023, 41, 141-162.	4.2	4
47	Selective inference for additive and linear mixed models. <i>Computational Statistics and Data Analysis</i> , 2022, 167, 107350.	1.2	4
48	Boosting functional response models for location, scale and shape with an application to bacterial competition. <i>Statistical Modelling</i> , 2021, 21, 385-404.	1.1	3
49	Adaptive step-length selection in gradient boosting for Gaussian location and scale models. <i>Computational Statistics</i> , 2022, 37, 2295-2332.	1.5	3
50	Variability of fibrinogen measurements in post-myocardial infarction patients. <i>Thrombosis and Haemostasis</i> , 2012, 107, 895-902.	3.4	2
51	Comments on: Inference and computation with Generalized Additive Models and their extensions. <i>Test</i> , 2020, 29, 343-350.	1.1	2