Duncan Lee

List of Publications by Year
in descending order

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71 papers	2,559 citations	257357 24 h-index	214721 47 g-index
73 all docs	73 docs citations	73 times ranked	3324 citing authors

#	Article	IF	Citations
1	Frailty and pre-frailty in middle-aged and older adults and its association with multimorbidity and mortality: a prospective analysis of 493â€˜737 UK Biobank participants. Lancet Public Health, The, 2018, 3, e323-e332.	4.7	578
2	A comparison of conditional autoregressive models used in Bayesian disease mapping. Spatial and Spatio-temporal Epidemiology, 2011, 2, 79-89.	0.9	192
3	CARBayes: AnRPackage for Bayesian Spatial Modeling with Conditional Autoregressive Priors. Journal of Statistical Software, 2013, 55, .	1.8	171
4	Relationship between multimorbidity, demographic factors and mortality: findings from the UK Biobank cohort. BMC Medicine, 2019, 17, 74.	2.3	132
5	A spatio-temporal model for estimating the long-term effects of air pollution on respiratory hospital admissions in Greater London. Spatial and Spatio-temporal Epidemiology, 2014, 10, 29-38.	0.9	107
6	Spatio-Temporal Areal Unit Modeling in R with Conditional Autoregressive Priors Using the CARBayesST Package. Journal of Statistical Software, 2018, 84, .	1.8	86
7	Multimorbidity and co-morbidity in atrial fibrillation and effects on survival: findings from UK Biobank cohort. Europace, 2018, 20, f329-f336.	0.7	68
8	Examining patterns of multimorbidity, polypharmacy and risk of adverse drug reactions in chronic obstructive pulmonary disease: a cross-sectional UK Biobank study. BMJ Open, 2018, 8, e018404.	0.8	58
9	A Bayesian localized conditional autoregressive model for estimating the health effects of air pollution. Biometrics, 2014, 70, 419-429.	0.8	56
10	Bayesian Quantile Regression for Count Data with Application to Environmental Epidemiology. Journal of the Royal Statistical Society Series C: Applied Statistics, 2010, 59, 905-920.	0.5	53
11	Cross-sectional and longitudinal analyses of outdoor air pollution exposure and cognitive function in UK Biobank. Scientific Reports, 2018, 8, 12089.	1.6	50
12	Boundary detection in disease mapping studies. Biostatistics, 2012, 13, 415-426.	0.9	47
13	Identifying clusters in Bayesian disease mapping. Biostatistics, 2014, 15, 457-469.	0.9	47
14	Locally Adaptive Spatial Smoothing Using Conditional Auto-Regressive Models. Journal of the Royal Statistical Society Series C: Applied Statistics, 2013, 62, 593-608.	0.5	46
15	Spatial Modeling of Air Pollution in Studies of Its Shortâ€Term Health Effects. Biometrics, 2010, 66, 1238-1246.	0.8	44
16	Air pollution and health in Scotland: a multicity study. Biostatistics, 2009, 10, 409-423.	0.9	41
17	Controlling for unmeasured confounding and spatial misalignment in longâ€term air pollution and health studies. Environmetrics, 2015, 26, 477-487.	0.6	41
18	An Adaptive Spatiotemporal Smoothing Model for Estimating Trends and Step Changes in Disease Risk. Journal of the Royal Statistical Society Series C: Applied Statistics, 2017, 66, 141-157.	0.5	40

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19	Assessing Risks of Polypharmacy Involving Medications With Anticholinergic Properties. Annals of Family Medicine, 2020, 18, 148-155.	0.9	38
20	Risk Factors and Mortality Associated with Multimorbidity in People with Stroke or Transient Ischaemic Attack: A Study of 8,751 UK Biobank Participants. Journal of Comorbidity, 2018, 8, 1-8.	3.9	37
21	Is Poverty Decentralizing? Quantifying Uncertainty in the Decentralization of Urban Poverty. Annals of the American Association of Geographers, 2016, 106, 1286-1298.	1.5	36
22	Quantifying the impact of current and future concentrations of air pollutants on respiratory disease risk in England. Environmental Health, 2017, 16, 29.	1.7	35
23	Association between childhood maltreatment and the prevalence and complexity of multimorbidity: A cross-sectional analysis of 157,357 UK Biobank participants. Journal of Comorbidity, 2020, 10, 2235042X1094434.	3.9	29
24	Multivariate spaceâ€time modelling of multiple air pollutants and their health effects accounting for exposure uncertainty. Statistics in Medicine, 2018, 37, 1134-1148.	0.8	26
25	Estimating exposure response functions using ambient pollution concentrations. Annals of Applied Statistics, 2008, 2, .	0.5	25
26	A model to estimate the impact of changes in MMR vaccine uptake on inequalities in measles susceptibility in Scotland. Statistical Methods in Medical Research, 2016, 25, 1185-1200.	0.7	23
27	Cardiovascular disease and air pollution in Scotland: no association or insufficient data and study design?. BMC Public Health, 2012, 12, 227.	1.2	21
28	A two-stage approach to estimate spatial and spatio-temporal disease risks in the presence of local discontinuities and clusters. Statistical Methods in Medical Research, 2019, 28, 2595-2613.	0.7	21
29	A rigorous statistical framework for spatio-temporal pollution prediction and estimation of its long-term impact on health. Biostatistics, 2017, 18, kxw048.	0.9	20
30	Time-Varying Coefficient Models for the Analysis of Air Pollution and Health Outcome Data. Biometrics, 2007, 63, 1253-1261.	0.8	19
31	Bayesian inference for the dissimilarity index in the presence of spatial autocorrelation. Spatial Statistics, 2015, 11, 81-95.	0.9	19
32	Quantifying the spatial inequality and temporal trends in maternal smoking rates in Glasgow. Annals of Applied Statistics, 2016, 10, 1427-1446.	0.5	19
33	A tutorial on spatio-temporal disease risk modelling in R using Markov chain Monte Carlo simulation and the CARBayesST package. Spatial and Spatio-temporal Epidemiology, 2020, 34, 100353.	0.9	19
34	An integrated Bayesian model for estimating the long-term health effects of air pollution by fusing modelled and measured pollution data: A case study of nitrogen dioxide concentrations in Scotland. Spatial and Spatio-temporal Epidemiology, 2015, 14-15, 63-74.	0.9	17
35	How robust are the estimated effects of air pollution on health? Accounting for model uncertainty using Bayesian model averaging. Spatial and Spatio-temporal Epidemiology, 2016, 18, 53-62.	0.9	17
36	Estimating constrained concentrationâ€“response functions between air pollution and health. Environmetrics, 2012, 23, 228-237.	0.6	16

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37	Is There Really a â€œWrong Side of the Tracksâ€in Urban Areas and Does It Matter for Spatial Analysis?. Annals of the American Association of Geographers, 2014, 104, 432-443.	3.0	16
38	Quantifying the small-area spatio-temporal dynamics of the Covid-19 pandemic in Scotland during a period with limited testing capacity. Spatial Statistics, 2022, 49, 100508.	0.9	16
39	Estimating the health impact of air pollution in Scotland, and the resulting benefits of reducing concentrations in city centres. Spatial and Spatio-temporal Epidemiology, 2019, 29, 85-96.	0.9	14
40	Controlling for localised spatio-temporal autocorrelation in long-term air pollution and health studies. Statistical Methods in Medical Research, 2014, 23, 488-506.	0.7	13
41	Bayesian Disease Mapping for Public Health. Handbook of Statistics, 2017, 36, 443-481.	0.4	13
42	A Bayesian spaceâ€“time model for clustering areal units based on their disease trends. Biostatistics, 2019, 20, 681-697.	0.9	13
43	Quantifying the impact of the modifiable areal unit problem when estimating the health effects of air pollution. Environmetrics, 2020, 31, e2643.	0.6	13
44	Using spline models to estimate the varying health risks from air pollution across Scotland. Statistics in Medicine, 2012, 31, 3366-3378.	0.8	12
45	The association of weather and bathing water quality on the incidence of gastrointestinal illness in the west of Scotland. Epidemiology and Infection, 2014, 142, 1289-1299.	1.0	12
46	Spatial clustering of average risks and risk trends in Bayesian disease mapping. Biometrical Journal, 2017, 59, 41-56.	0.6	12
47	Developing a Locally Adaptive Spatial Multilevel Logistic Model to Analyze Ecological Effects on Health Using Individual Census Records. Annals of the American Association of Geographers, 2020, 110, 739-757.	1.5	12
48	Constructing representative air quality indicators with measures of uncertainty. Journal of the Royal Statistical Society Series A: Statistics in Society, 2011, 174, 109-126.	0.6	11
49	Bayesian cluster detection via adjacency modelling. Spatial and Spatio-temporal Epidemiology, 2016, 16, 11-20.	0.9	11
50	Modelling the effects of air pollution on health using Bayesian dynamic generalised linear models. Environmetrics, 2008, 19, 785-804.	0.6	10
51	Dealing with risk discontinuities to estimate cancer mortality risks when the number of small areas is large. Statistical Methods in Medical Research, 2021, 30, 6-21.	0.7	9
52	Nonlinearities in the CAPM: Evidence from Developed and Emerging Markets. Journal of Forecasting, 2017, 36, 867-897.	1.6	8
53	Spatial models with covariates improve estimates of peat depth in blanket peatlands. PLoS ONE, 2018, 13, e0202691.	1.1	8
54	â€œThe Glasgow effect?â€â€“ The result of the geographical patterning of deprived areas?. Health and Place, 2014, 29, 1-9.	1.5	7

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55	Improving spatial nitrogen dioxide prediction using diffusion tubes: A case study in West Central Scotland. Atmospheric Environment, 2015, 118, 227-235.	1.9	7
56	Ecological bias in studies of the short-term effects of air pollution on health. International Journal of Applied Earth Observation and Geoinformation, 2013, 22, 65-74.	1.4	6
57	A locally adaptive process-convolution model for estimating the health impact of air pollution. Annals of Applied Statistics, 2018, 12, .	0.5	6
58	Estimating the Changing Nature of Scotland's Health Inequalities by using a Multivariate Spatiotemporal Model. Journal of the Royal Statistical Society Series A: Statistics in Society, 2019, 182, 1061-1080.	0.6	6
59	Spatiotemporal distributed lag modelling of multiple Plasmodium species in a malaria elimination setting. Statistical Methods in Medical Research, 2021, 30, 22-34.	0.7	6
60	Bayesian latent variable modelling in studies of air pollution and health. Statistics in Medicine, 2010, 29, 2732-2742.	0.8	5
61	Modelling Spatial Variability in Concentrations of Single Pollutants and Composite Air Quality Indicators in Health Effects Studies. Journal of the Royal Statistical Society Series A: Statistics in Society, 2014, 177, 607-623.	0.6	4
62	Multivariate time-varying parameter modelling for stock markets. Empirical Economics, 2021, 61, 947-972.	1.5	4
63	Improved inference for areal unit count data using graph-based optimisation. Statistics and Computing, 2021, 31, 1.	0.8	4
64	Quantifying the impact of air pollution on Covid-19 hospitalisation and death rates in Scotland. Spatial and Spatio-temporal Epidemiology, 2022, 42, 100523.	0.9	4
65	Editorial. Statistical Methods in Medical Research, 2016, 25, 1079-1079.	0.7	1
66	Spatio-temporal disease risk estimation using clustering-based adjacency modelling. Statistical Methods in Medical Research, 2022, , 096228022210841.	0.7	1
67	The Epidemiological Approach: an Introduction to Epidemiology in Medicine. By Nicholas J. Wald. Â£8.95, 86 pages: Published: London, Royal Society of Medicine, ISBN: 1â€85315â€584â€5. Audiological Medicine, 2004, 2, 143-143.	0.4	0
68	GEOMED 2013 Editorial. Statistical Methods in Medical Research, 2014, 23, 487-487.	0.7	0
69	Editorial. Statistical Methods in Medical Research, 2019, 28, 2569-2569.	0.7	0
70	Spatioâ€environmental modeling for health outcome data. Environmetrics, 2019, 30, e2600.	0.6	0
71	A Bayesian spatioâ€network model for multiple adolescent adverse health behaviours. Journal of the Royal Statistical Society Series C: Applied Statistics, 0, , .	0.5	0