

Mark Steven Gilthorpe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

3,754
citations

32
h-index

56
g-index

144
ext. papers

4,613
ext. citations

5
avg, IF

5.41
L-index

#	Paper	IF	Citations
137	The utility of multilevel models for continuous-time feature selection of spatio-temporal networks. <i>Computers, Environment and Urban Systems</i> , 2022 , 91, 101728	5.9	
136	Distinct Body Mass Index Trajectories to Young-Adulthood Obesity and Their Different Cardiometabolic Consequences. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 1580-1593	9.4	4
135	Early childhood weight gain: Latent patterns and body composition outcomes. <i>Paediatric and Perinatal Epidemiology</i> , 2021 , 35, 557-568	2.7	1
134	Latent class regression improves the predictive acuity and clinical utility of survival prognostication amongst chronic heart failure patients. <i>PLoS ONE</i> , 2021 , 16, e0243674	3.7	
133	Analyses of Rchange scoresPdo not estimate causal effects in observational data. <i>International Journal of Epidemiology</i> , 2021 ,	7.8	8
132	Adjustment for energy intake in nutritional research: a causal inference perspective. <i>American Journal of Clinical Nutrition</i> , 2021 ,	7	9
131	Reflection on modern methods: generalized linear models for prognosis and intervention-theory, practice and implications for machine learning. <i>International Journal of Epidemiology</i> , 2021 , 49, 2074-2082	7.8	15
130	Use of directed acyclic graphs (DAGs) to identify confounders in applied health research: review and recommendations. <i>International Journal of Epidemiology</i> , 2021 , 50, 620-632	7.8	45
129	Demonstration of functional rehabilitation treatment effects in children and young people after severe acquired brain injury. <i>Developmental Neurorehabilitation</i> , 2021 , 1-7	1.8	0
128	Evidence informing the UK's COVID-19 public health response must be transparent. <i>Lancet, The</i> , 2020 , 395, 1036-1037	40	35
127	Response to: Simpson's Paradox is suppression, but Lord's Paradox is neither: clarification of and correction to Tu, Gunnell, and Gilthorpe (2008) by Nickerson CA & Brown NJL (https://doi.org/10.1186/1742-7622-5-2). <i>Emerging Themes in Epidemiology</i> , 2020 , 17, 1	3.9	1
126	A causal inference perspective on the analysis of compositional data. <i>International Journal of Epidemiology</i> , 2020 , 49, 1307-1313	7.8	15
125	Universal weekly testing as the UK COVID-19 lockdown exit strategy. <i>Lancet, The</i> , 2020 , 395, 1420-1421	40	98
124	Los imperativos Éicos de la pandemia de COVID-19: Un análisis desde la Éica de los datos. <i>Vitalitas</i> , 2020 , 13-35	1	4
123	Intervention differential effects and regression to the mean in studies where sample selection is based on the initial value of the outcome variable: an evaluation of methods illustrated in weight-management studies. <i>Biostatistics and Epidemiology</i> , 2020 , 4, 172-188	0.8	2
122	Time to reality check the promises of machine learning-powered precision medicine. <i>The Lancet Digital Health</i> , 2020 , 2, e677-e680	14.4	47
121	PLATOON: Premature Loss of bAby Teeth and its impact On Orthodontic Need - protocol. <i>Journal of Orthodontics</i> , 2019 , 46, 118-125	1.6	1

120	DNA methylation profiling implicates exposure to PCBs in the pathogenesis of B-cell chronic lymphocytic leukemia. <i>Environment International</i> , 2019 , 126, 24-36	12.9	18
119	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research. <i>PLoS ONE</i> , 2019 , 14, e0225217	3.7	3
118	The Authors Respond. <i>Epidemiology</i> , 2019 , 30, e26-e27	3.1	
117	DAG-informed regression modelling, agent-based modelling and microsimulation modelling: a critical comparison of methods for causal inference. <i>International Journal of Epidemiology</i> , 2019 , 48, 243-253	7.8	18
116	The Association Between Childhood Leukemia and Population Mixing: An Artifact of Focusing on Clusters?. <i>Epidemiology</i> , 2019 , 30, 75-82	3.1	8
115	Adjustment for time-invariant and time-varying confounders in unexplained residuals models for longitudinal data within a causal framework and associated challenges. <i>Statistical Methods in Medical Research</i> , 2019 , 28, 1347-1364	2.3	1
114	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research 2019 , 14, e0225217		
113	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research 2019 , 14, e0225217		
112	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research 2019 , 14, e0225217		
111	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research 2019 , 14, e0225217		
110	Pre-diagnostic blood immune markers, incidence and progression of B-cell lymphoma and multiple myeloma: Univariate and functionally informed multivariate analyses. <i>International Journal of Cancer</i> , 2018 , 143, 1335-1347	7.5	10
109	Joint modelling compared with two stage methods for analysing longitudinal data and prospective outcomes: A simulation study of childhood growth and BP. <i>Statistical Methods in Medical Research</i> , 2017 , 26, 437-452	2.3	24
108	Excess mortality and guideline-indicated care following non-ST-elevation myocardial infarction. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2017 , 6, 412-420	4.3	28
107	Translating HbA measurements into estimated average glucose values in pregnant women with diabetes. <i>Diabetologia</i> , 2017 , 60, 618-624	10.3	35
106	Modelling height in adolescence: a comparison of methods for estimating the age at peak height velocity. <i>Annals of Human Biology</i> , 2017 , 44, 715-722	1.7	24
105	Robust causal inference using directed acyclic graphs: the R package Rdagitty. <i>International Journal of Epidemiology</i> , 2016 , 45, 1887-1894	7.8	467
104	Age-period-cohort analysis of trends in amyotrophic lateral sclerosis incidence. <i>Journal of Neurology</i> , 2016 , 263, 1919-26	5.5	14
103	Model Selection of the Effect of Binary Exposures over the Life Course. <i>Epidemiology</i> , 2015 , 26, 719-26	3.1	31

102	Prediagnostic transcriptomic markers of Chronic lymphocytic leukemia reveal perturbations 10 years before diagnosis. <i>Annals of Oncology</i> , 2014 , 25, 1065-72	10.3	28
101	Challenges in modelling the random structure correctly in growth mixture models and the impact this has on model mixtures. <i>Journal of Developmental Origins of Health and Disease</i> , 2014 , 5, 197-205	2.4	16
100	Time to begin adjuvant chemotherapy and survival in breast cancer patients: a retrospective observational study using latent class analysis. <i>Breast Journal</i> , 2014 , 20, 29-36	1.2	14
99	AuthorsPreply to the letter to the editor by Wills et al. <i>International Journal of Epidemiology</i> , 2014 , 43, 1664-5	7.8	1
98	Capturing changes in dietary patterns among older adults: a latent class analysis of an ageing Irish cohort. <i>Public Health Nutrition</i> , 2014 , 17, 2674-86	3.3	29
97	Age-period-cohort analysis for trends in body mass index in Ireland. <i>BMC Public Health</i> , 2013 , 13, 889	4.1	16
96	Cardiac resynchronization therapy in pacemaker-dependent patients with left ventricular dysfunction. <i>Europace</i> , 2013 , 15, 1609-14	3.9	25
95	A critical evaluation of statistical approaches to examining the role of growth trajectories in the developmental origins of health and disease. <i>International Journal of Epidemiology</i> , 2013 , 42, 1327-39	7.8	81
94	Placental blood transfusion in newborn babies reaches a plateau after 140 s: Further analysis of longitudinal survey of weight change. <i>SAGE Open Medicine</i> , 2013 , 1, 2050312113503321	2.4	3
93	Key statistical and analytical issues for evaluating treatment effects in periodontal research. <i>Periodontology 2000</i> , 2012 , 59, 75-88	12.9	12
92	Selection Bias in Epidemiologic Studies 2012 , 57-71		0
91	A comparison of different approaches to unravel the latent structure within metabolic syndrome. <i>PLoS ONE</i> , 2012 , 7, e34410	3.7	15
90	A prospective study of psychological distress and weight status in adolescents/young adults. <i>Annals of Behavioral Medicine</i> , 2012 , 43, 219-28	4.5	46
89	Platelet-derived growth factor maintains stored calcium through a nonclustering Orai1 mechanism but evokes clustering if the endoplasmic reticulum is stressed by store depletion. <i>Circulation Research</i> , 2012 , 111, 66-76	15.7	9
88	Statistical profiling of hospital performance using acute coronary syndrome mortality. <i>Cardiovascular Journal of Africa</i> , 2012 , 23, 546-51	0.7	5
87	A Multivariate Random Frailty Effects Model for Multiple Spatially Dependent Survival Data 2012 , 157-172		4
86	Statistical Interactions and Gene-Environment Joint Effects 2012 , 291-311		
85	Modelling Data That Exhibit an Excess Number of Zeros: Zero-Inflated Models and Generic Mixture Models 2012 , 93-115		

84 Multilevel Latent Class Modelling **2012**, 117-140

83 Unravelling the effects of age, period and cohort on metabolic syndrome components in a Taiwanese population using partial least squares regression. *BMC Medical Research Methodology*, **2011**, 11, 82 4.7 13

82 Multilevel latent class casemix modelling: a novel approach to accommodate patient casemix. *BMC Health Services Research*, **2011**, 11, 53 2.9 3

81 Using routinely collected health data to investigate the association between ethnicity and breast cancer incidence and survival: what is the impact of missing data and multiple ethnicities?. *Ethnicity and Health*, **2011**, 16, 201-12 2.2 11

80 A new approach to age-period-cohort analysis using partial least squares regression: the trend in blood pressure in the Glasgow Alumni cohort. *PLoS ONE*, **2011**, 6, e19401 3.7 30

79 Latent class modelling of the association between socioeconomic background and breast cancer survival status at 5 years incorporating stage of disease. *Journal of Epidemiology and Community Health*, **2010**, 64, 772-6 5.1 9

78 Epidemiology of functional dyspepsia and subgroups in the Italian general population: an endoscopic study. *Gastroenterology*, **2010**, 138, 1302-11 13.3 94

77 On Separating the Effects of Body Size and Growth on Later Blood Pressure. *Epidemiology*, **2010**, 21, 452-453 3.1 1

76 Assessing the impact of body size in childhood and adolescence on blood pressure: an application of partial least squares regression. *Epidemiology*, **2010**, 21, 440-8 3.1 27

75 Ratio index variables or ANCOVA? Fisher's cats revisited. *Pharmaceutical Statistics*, **2010**, 9, 77-83 1 2

74 Cholesterol levels in later life amongst UK Channel Islanders exposed to the 1940-45 German occupation as children, adolescents and young adults. *Nutrition and Health*, **2009**, 20, 91-105 2.1 7

73 Investigating spatio-temporal similarities in the epidemiology of childhood leukaemia and diabetes. *European Journal of Epidemiology*, **2009**, 24, 743-52 12.1 24

72 Modelling count data with excessive zeros: the need for class prediction in zero-inflated models and the issue of data generation in choosing between zero-inflated and generic mixture models for dental caries data. *Statistics in Medicine*, **2009**, 28, 3539-53 2.3 31

71 An introduction to latent growth curve modelling for longitudinal continuous data in dental research. *European Journal of Oral Sciences*, **2009**, 117, 343-50 2.3 8

70 Partial least squares path modelling for relations between baseline factors and treatment outcomes in periodontal regeneration. *Journal of Clinical Periodontology*, **2009**, 36, 984-95 7.7 7

69 Cardiovascular disease in a cohort exposed to the 1940-45 Channel Islands occupation. *BMC Public Health*, **2008**, 8, 303 4.1 19

68 The impact of the Calman-Hine report on the processes and outcomes of care for Yorkshire's breast cancer patients. *Annals of Oncology*, **2008**, 19, 284-91 10.3 23

67 Does population mixing measure infectious exposure in children at the community level?. *European Journal of Epidemiology*, **2008**, 23, 593-600 12.1 10

66	Joint disease mapping using six cancers in the Yorkshire region of England. <i>International Journal of Health Geographics</i> , 2008 , 7, 41	3.5	33
65	Simpson's Paradox, Lord's Paradox, and Suppression Effects are the same phenomenon--the reversal paradox. <i>Emerging Themes in Epidemiology</i> , 2008 , 5, 2	3.9	119
64	What do epidemiologists mean by "population mixing"? <i>Pediatric Blood and Cancer</i> , 2008 , 51, 155-60	3	14
63	A structural equation modelling approach to the analysis of change. <i>European Journal of Oral Sciences</i> , 2008 , 116, 291-6	2.3	9
62	What evidence is there that adjustment for adult height influences the relationship between birth weight and blood pressure?. <i>Annals of Human Biology</i> , 2007 , 34, 252-64	1.7	2
61	Revisiting the relation between change and initial value: a review and evaluation. <i>Statistics in Medicine</i> , 2007 , 26, 443-57	2.3	130
60	Socioeconomic background in relation to stage at diagnosis, treatment and survival in women with breast cancer. <i>British Journal of Cancer</i> , 2007 , 96, 836-40	8.7	78
59	An adaptive empirical Bayesian thresholding procedure for analysing microarray experiments with replication. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2007 , 56, 271-291	1.5	2
58	A randomized-controlled trial of low-dose doxycycline for periodontitis in smokers. <i>Journal of Clinical Periodontology</i> , 2007 , 34, 325-33	7.7	42
57	Statistical issues on the analysis of change in follow-up studies in dental research. <i>Community Dentistry and Oral Epidemiology</i> , 2007 , 35, 412-20	2.8	18
56	Do the UK government's new Quality and Outcomes Framework (QOF) scores adequately measure primary care performance? A cross-sectional survey of routine healthcare data. <i>BMC Health Services Research</i> , 2007 , 7, 166	2.9	50
55	The most dangerous hospital or the most dangerous equation?. <i>BMC Health Services Research</i> , 2007 , 7, 185	2.9	7
54	A full Bayesian hierarchical mixture model for the variance of gene differential expression. <i>BMC Bioinformatics</i> , 2007 , 8, 124	3.6	6
53	Revisiting the interaction between birth weight and current body size in the foetal origins of adult disease. <i>European Journal of Epidemiology</i> , 2007 , 22, 565-75	12.1	7
52	Functional data analysis applied to a randomized controlled clinical trial in hemodialysis patients describes the variability of patient responses in the control of renal anemia. <i>Journal of the American Society of Nephrology: JASN</i> , 2007 , 18, 2371-6	12.7	31
51	Associations between tooth loss and mortality patterns in the Glasgow Alumni Cohort. <i>Heart</i> , 2007 , 93, 1098-103	5.1	87
50	Unexplained residuals models are not solutions to statistical modeling of the fetal origins hypothesis. <i>Journal of Clinical Epidemiology</i> , 2007 , 60, 318-9; author reply 319-20	5.7	9
49	The impact of imprecisely measured covariates on estimating gene-environment interactions. <i>BMC Medical Research Methodology</i> , 2006 , 6, 21	4.7	9

48	The impact of the Calman-Hine report on the processes and outcomes of care for Yorkshire colorectal cancer patients. <i>British Journal of Cancer</i> , 2006 , 95, 979-85	8.7	82
47	Growth, current size and the role of the Reversal paradox in the foetal origins of adult disease: an illustration using vector geometry. <i>Epidemiologic Perspectives and Innovations</i> , 2006 , 3, 9		13
46	Evaluating the quality of active-control trials in periodontal research. <i>Journal of Clinical Periodontology</i> , 2006 , 33, 151-6	7.7	13
45	Misuses of correlation and regression analyses in orthodontic research: the problem of mathematical coupling. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2006 , 130, 62-8	2.1	7
44	Capnocytophaga spp. in periodontitis patients manifesting diabetes mellitus. <i>Journal of Periodontology</i> , 2005 , 76, 194-203	4.6	41
43	In vitro quantification of changes in human dentine tubule parameters using SEM and digital analysis. <i>Journal of Oral Rehabilitation</i> , 2005 , 32, 589-97	3.4	26
42	The problem of analysing the relationship between change and initial value in oral health research. <i>European Journal of Oral Sciences</i> , 2005 , 113, 271-8	2.3	26
41	The relationship between baseline value and its change: problems in categorization and the proposal of a new method. <i>European Journal of Oral Sciences</i> , 2005 , 113, 279-88	2.3	30
40	Commentary: is tooth loss good or bad for general health?. <i>International Journal of Epidemiology</i> , 2005 , 34, 475-6	7.8	11
39	Statistical power for analyses of changes in randomized controlled trials. <i>Journal of Dental Research</i> , 2005 , 84, 283-7	8.1	38
38	A Bayesian analysis of amalgam restorations in the Royal Air Force using the counting process approach with nested frailty effects. <i>Statistical Methods in Medical Research</i> , 2005 , 14, 567-78	2.3	2
37	Problems of correlations between explanatory variables in multiple regression analyses in the dental literature. <i>British Dental Journal</i> , 2005 , 199, 457-61	1.2	101
36	A multilevel modelling solution to mathematical coupling. <i>Statistical Methods in Medical Research</i> , 2005 , 14, 553-65	2.3	25
35	Detecting small-area similarities in the epidemiology of childhood acute lymphoblastic leukemia and diabetes mellitus, type 1: a Bayesian approach. <i>American Journal of Epidemiology</i> , 2005 , 161, 1168-80	2.8	31
34	Why evidence for the fetal origins of adult disease might be a statistical artifact: the "reversal paradox" for the relation between birth weight and blood pressure in later life. <i>American Journal of Epidemiology</i> , 2005 , 161, 27-32	3.8	194
33	TU ET AL. REPLY. <i>American Journal of Epidemiology</i> , 2005 , 162, 293-293	3.8	
32	Mathematical coupling: a multilevel approach. <i>International Journal of Epidemiology</i> , 2004 , 33, 1399-400	7.8	7
31	Morbidity following dental treatment of children under intubation general anaesthesia in a day-stay unit. <i>International Journal of Paediatric Dentistry</i> , 2004 , 14, 9-16	3.1	57

30	Collinearity in linear regression is a serious problem in oral health research. <i>European Journal of Oral Sciences</i> , 2004 , 112, 389-97	2.3	60
29	Passive tactile sensibility in edentulous subjects treated with dental implants: a pilot study. <i>Journal of Prosthetic Dentistry</i> , 2004 , 91, 26-32	4	15
28	The application of multilevel modeling in the analysis of longitudinal periodontal data--part I: absolute levels of disease. <i>Journal of Periodontology</i> , 2004 , 75, 127-36	4.6	24
27	The application of multilevel modeling in the analysis of longitudinal periodontal data--part II: changes in disease levels over time. <i>Journal of Periodontology</i> , 2004 , 75, 137-45	4.6	19
26	Ratio variables in regression analysis can give rise to spurious results: illustration from two studies in periodontology. <i>Journal of Dentistry</i> , 2004 , 32, 143-51	4.8	26
25	Mathematical coupling can undermine the statistical assessment of clinical research: illustration from the treatment of guided tissue regeneration. <i>Journal of Dentistry</i> , 2004 , 32, 133-42	4.8	43
24	Unification of the "burst" and "linear" theories of periodontal disease progression: a multilevel manifestation of the same phenomenon. <i>Journal of Dental Research</i> , 2003 , 82, 200-5	8.1	59
23	Rural/urban differences in the association between deprivation and healthcare utilisation. <i>Social Science and Medicine</i> , 2003 , 57, 2055-63	5.1	32
22	Is reduction of pocket probing depth correlated with the baseline value or is it "mathematical coupling"?. <i>Journal of Dental Research</i> , 2002 , 81, 722-6	8.1	32
21	Prevalence and antibiotic resistance profile of mercury-resistant oral bacteria from children with and without mercury amalgam fillings. <i>Journal of Antimicrobial Chemotherapy</i> , 2002 , 49, 777-83	5.1	28
20	Disparities in self reported oral health problems among a young Syrian adult population. <i>International Dental Journal</i> , 2002 , 52, 449-52	2.2	5
19	Multilevel survival analysis of amalgam restorations amongst RAF personnel. <i>Community Dental Health</i> , 2002 , 19, 3-11	0.9	12
18	Prevalence and extent of lifetime cumulative attachment loss (LCAL) at different thresholds and associations with clinical variables: changes in a population of young male military recruits over 3 years. <i>Journal of Clinical Periodontology</i> , 2001 , 28, 961-9	7.7	17
17	Agreement between normative and perceived orthodontic need amongst deprived multiethnic school children in London. <i>Orthodontics & Craniofacial Research</i> , 2001 , 4, 65-71		28
16	Are pre-treatment psychological characteristics influenced by pre-surgical orthodontics?. <i>European Journal of Orthodontics</i> , 2001 , 23, 751-8	3.3	21
15	The effect of micro-etching on the retention of orthodontic molar bands: a clinical trial. <i>European Journal of Orthodontics</i> , 2001 , 23, 91-7	3.3	11
14	Comparison of clinical outcome of periapical surgery in endodontic and oral surgery units of a teaching dental hospital: a retrospective study. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2001 , 91, 700-9		80
13	The influence of partial and full-mouth recordings on estimates of prevalence and extent of lifetime cumulative attachment loss: a study in a population of young male military recruits. <i>Journal of Periodontology</i> , 2001 , 72, 140-5	4.6	33

12	An introduction to meta-analysis within the framework of multilevel modelling using the probability of success of root canal treatment as an illustration. <i>Community Dental Health</i> , 2001 , 18, 131-7 ⁹		14
11	Elder abuse: do general practitioners know or care?. <i>Journal of the Royal Society of Medicine</i> , 2000 , 93, 67-71	2.3	34
10	Changes in oral health over ten years amongst UK children aged 4-5 years living in a deprived multiethnic area. <i>British Dental Journal</i> , 2000 , 189, 88-92	1.2	10
9	Ethnic and gender variations in university applicants to United Kingdom medical and dental schools. <i>British Dental Journal</i> , 2000 , 189, 212-5	1.2	35
8	Are orthognathic patients different?. <i>European Journal of Orthodontics</i> , 2000 , 22, 195-202	3.3	46
7	An exploratory study combining hospital episode statistics with socio-demographic variables, to examine the access and utilisation of hospital oral surgery services. <i>Community Dental Health</i> , 1997 , 14, 209-13	0.9	8
6	Monitoring purchaser expenditure patterns. <i>Mathematical Medicine and Biology</i> , 1995 , 12, 211-23	1.3	3
5	Mortality of copper cadmium alloy workers with special reference to lung cancer and non-malignant diseases of the respiratory system, 1946-92. <i>Occupational and Environmental Medicine</i> , 1995 , 52, 804-12	2.1	46
4	Non-differential misclassification of exposure always leads to an underestimate of risk: an incorrect conclusion. <i>Occupational and Environmental Medicine</i> , 1994 , 51, 839-40	2.1	48
3	Univariate and Multivariate Data Analysis 181-197		
2	Use of directed acyclic graphs (DAGs) in applied health research: review and recommendations		15
1	Simplifying the interpretation of continuous time models for spatio-temporal networks. <i>Journal of Geographical Systems</i> , 1	1.8	1