Mark Steven Gilthorpe

List of Publications by Year
in descending order

137 papers	**5,515** citations	87843 **38** h-index	98753 **67** g-index
144 all docs	**144** docs citations	**144** times ranked	**8882** citing authors

#	Article	IF	Citations
1	Robust causal inference using directed acyclic graphs: the R package 'dagitty'. International Journal of Epidemiology, 2016, 45, dyw341.	0.9	900
2	Use of directed acyclic graphs (DAGs) to identify confounders in applied health research: review and recommendations. International Journal of Epidemiology, 2021, 50, 620-632.	0.9	337
3	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. American Journal of Epidemiology, 2005, 161, 27-32.	1.6	223
4	Simpson's Paradox, Lord's Paradox, and Suppression Effects are the same phenomenon – the reversal paradox. Emerging Themes in Epidemiology, 2008, 5, 2.	1.2	170
5	Revisiting the relation between change and initial value: a review and evaluation. Statistics in Medicine, 2007, 26, 443-457.	0.8	169
6	Problems of correlations between explanatory variables in multiple regression analyses in the dental literature. British Dental Journal, 2005, 199, 457-461.	0.3	135
7	Universal weekly testing as the UK COVID-19 lockdown exit strategy. Lancet, The, 2020, 395, 1420-1421.	6.3	127
8	Time to reality check the promises of machine learning-powered precision medicine. The Lancet Digital Health, 2020, 2, e677-e680.	5.9	126
9	Epidemiology of Functional Dyspepsia and Subgroups in the Italian General Population: An Endoscopic Study. Gastroenterology, 2010, 138, 1302-1311.	0.6	115
10	Comparison of clinical outcome of periapical surgery in endodontic and oral surgery units of a teaching dental hospital: A retrospective study. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2001, 91, 700-709.	1.6	109
11	A critical evaluation of statistical approaches to examining the role of growth trajectories in the developmental origins of health and disease. International Journal of Epidemiology, 2013, 42, 1327-1339.	0.9	103
12	Associations between tooth loss and mortality patterns in the Glasgow Alumni Cohort. Heart, 2007, 93, 1098-1103.	1.2	102
13	The impact of the Calman–Hine report on the processes and outcomes of care for Yorkshire's colorectal cancer patients. British Journal of Cancer, 2006, 95, 979-985.	2.9	98
14	Socioeconomic background in relation to stage at diagnosis, treatment and survival in women with breast cancer. British Journal of Cancer, 2007, 96, 836-840.	2.9	89
15	Mortality of copper cadmium alloy workers with special reference to lung cancer and non-malignant diseases of the respiratory system, 1946-92.. Occupational and Environmental Medicine, 1995, 52, 804-812.	1.3	77
16	Morbidity following dental treatment of children under intubation general anaesthesia in a day-stay unit. International Journal of Paediatric Dentistry, 2004, 14, 9-16.	1.0	74
17	Non-differential misclassification of exposure always leads to an underestimate of risk: an incorrect conclusion.. Occupational and Environmental Medicine, 1994, 51, 839-840.	1.3	68
18	Collinearity in linear regression is a serious problem in oral health research. European Journal of Oral Sciences, 2004, 112, 389-397.	0.7	68

#	ARTICLE	IF	CITATIONS
19	Unification of the "Burst" and "Linear" Theories of Periodontal Disease Progression: A Multilevel Manifestation of the Same Phenomenon. Journal of Dental Research, 2003, 82, 200-205.	2.5	63
20	Analyses of 'change scores' do not estimate causal effects in observational data. International Journal of Epidemiology, 2022, 51, 1604-1615.	0.9	61
21	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. BMC Health Services Research, 2007, 7, 166.	0.9	60
22	Are orthognathic patients different?. European Journal of Orthodontics, 2000, 22, 195-202.	1.1	58
23	Translating HbA1c measurements into estimated average glucose values in pregnant women with diabetes. Diabetologia, 2017, 60, 618-624.	2.9	53
24	Mathematical coupling can undermine the statistical assessment of clinical research: illustration from the treatment of guided tissue regeneration. Journal of Dentistry, 2004, 32, 133-142.	1.7	52
25	Adjustment for energy intake in nutritional research: a causal inference perspective. American Journal of Clinical Nutrition, 2022, 115, 189-198.	2.2	52
26	A Prospective Study of Psychological Distress and Weight Status in Adolescents/Young Adults. Annals of Behavioral Medicine, 2012, 43, 219-228.	1.7	51
27	Evidence informing the UK's COVID-19 public health response must be transparent. Lancet, The, 2020, 395, 1036-1037.	6.3	50
28	Model Selection of the Effect of Binary Exposures over the Life Course. Epidemiology, 2015, 26, 719-726.	1.2	49
29	Capnocytophagaspp. in Periodontitis Patients Manifesting Diabetes Mellitus. Journal of Periodontology, 2005, 76, 194-203.	1.7	47
30	A randomized-controlled trial of low-dose doxycycline for periodontitis in smokers. Journal of Clinical Periodontology, 2007, 34, 325-333.	2.3	47
31	Capturing changes in dietary patterns among older adults: a latent class analysis of an ageing Irish cohort. Public Health Nutrition, 2014, 17, 2674-2686.	1.1	47
32	Elder abuse: Do general practitioners know or care?. Journal of the Royal Society of Medicine, 2000, 93, 67-71.	1.1	45
33	Rural/urban differences in the association between deprivation and healthcare utilisation. Social Science and Medicine, 2003, 57, 2055-2063.	1.8	43
34	Statistical Power for Analyses of Changes in Randomized Controlled Trials. Journal of Dental Research, 2005, 84, 283-287.	2.5	43
35	Joint disease mapping using six cancers in the Yorkshire region of England. International Journal of Health Geographics, 2008, 7, 41.	1.2	42
36	Ethnic and gender variations in university applicants to United Kingdom medical and dental schools. British Dental Journal, 2000, 189, 212-215.	0.3	41

#	Article	IF	Citations
37	Prediagnostic transcriptomic markers of Chronic lymphocytic leukemia reveal perturbations 10 years before diagnosis. Annals of Oncology, 2014, 25, 1065-1072.	0.6	40
38	Modelling height in adolescence: a comparison of methods for estimating the age at peak height velocity. Annals of Human Biology, 2017, 44, 715-722.	0.4	40
39	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. Journal of the American Society of Nephrology: JASN, 2007, 18, 2371-2376.	3.0	38
40	Modelling count data with excessive zeros: The need for class prediction in zeroâ€inflated models and the issue of data generation in choosing between zeroâ€inflated and generic mixture models for dental caries data. Statistics in Medicine, 2009, 28, 3539-3553.	0.8	37
41	Excess mortality and guideline-indicated care following non-ST-elevation myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2017, 6, 412-420.	0.4	37
42	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. Journal of Periodontology, 2001, 72, 140-145.	1.7	36
43	Is Reduction of Pocket Probing Depth Correlated with the Baseline Value or is it â€œMathematical Couplingâ€?. Journal of Dental Research, 2002, 81, 722-726.	2.5	35
44	Reflection on modern methods: generalized linear models for prognosis and interventionâ€"theory, practice and implications for machine learning. International Journal of Epidemiology, 2021, 49, 2074-2082.	0.9	35
45	Agreement between normative and perceived orthodontic need amongst deprived multiethnic school children in London. Orthodontics & Craniofacial Research, 2001, 4, 65-71.	0.2	34
46	The relationship between baseline value and its change: problems in categorization and the proposal of a new method. European Journal of Oral Sciences, 2005, 113, 279-288.	0.7	34
47	Investigating spatio-temporal similarities in the epidemiology of childhood leukaemia and diabetes. European Journal of Epidemiology, 2009, 24, 743-752.	2.5	34
48	DAG-informed regression modelling, agent-based modelling and microsimulation modelling: a critical comparison of methods for causal inference. International Journal of Epidemiology, 2019, 48, 243-253.	0.9	34
49	Joint modelling compared with two stage methods for analysing longitudinal data and prospective outcomes: A simulation study of childhood growth and BP. Statistical Methods in Medical Research, 2017, 26, 437-452.	0.7	33
50	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.	1.1	33
51	A multilevel modelling solution to mathematical coupling. Statistical Methods in Medical Research, 2005, 14, 553-565.	0.7	32
52	Detecting Small-Area Similarities in the Epidemiology of Childhood Acute Lymphoblastic Leukemia and Diabetes Mellitus, Type 1: A Bayesian Approach. American Journal of Epidemiology, 2005, 161, 1168-1180.	1.6	32
53	Cardiac resynchronization therapy in pacemaker-dependent patients with left ventricular dysfunction. Europace, 2013, 15, 1609-1614.	0.7	31
54	In vitro quantification of changes in human dentine tubule parameters using SEM and digital analysis. Journal of Oral Rehabilitation, 2005, 32, 589-597.	1.3	30

#	Article	IF	Citations
55	Prevalence and antibiotic resistance profile of mercury-resistant oral bacteria from children with and without mercury amalgam fillings. Journal of Antimicrobial Chemotherapy, 2002, 49, 777-783.	1.3	29
56	Ratio variables in regression analysis can give rise to spurious results: illustration from two studies in periodontology. Journal of Dentistry, 2004, 32, 143-151.	1.7	29
57	The problem of analysing the relationship between change and initial value in oral health research. European Journal of Oral Sciences, 2005, 113, 271-278.	0.7	28
58	Assessing the Impact of Body Size in Childhood and Adolescence on Blood Pressure. Epidemiology, 2010, 21, 440-448.	1.2	28
59	A causal inference perspective on the analysis of compositional data. International Journal of Epidemiology, 2020, 49, 1307-1313.	0.9	28
60	The Application of Multilevel Modeling in the Analysis of Longitudinal Periodontal Data â€" Part I: Absolute Levels of Disease. Journal of Periodontology, 2004, 75, 127-136.	1.7	27
61	Are pre-treatment psychological characteristics influenced by pre-surgical orthodontics?. European Journal of Orthodontics, 2001, 23, 751-758.	1.1	25
62	The impact of the Calman-Hine report on the processes and outcomes of care for Yorkshireâ€™s breast cancer patients. Annals of Oncology, 2008, 19, 284-291.	0.6	25
63	Challenges in modelling the random structure correctly in growth mixture models and the impact this has on model mixtures. Journal of Developmental Origins of Health and Disease, 2014, 5, 197-205.	0.7	25
64	Cardiovascular disease in a cohort exposed to the 1940â€"45 Channel Islands occupation. BMC Public Health, 2008, 8, 303.	1.2	23
65	Age-period-cohort analysis for trends in body mass index in Ireland. BMC Public Health, 2013, 13, 889.	1.2	23
66	DNA methylation profiling implicates exposure to PCBs in the pathogenesis of B-cell chronic lymphocytic leukemia. Environment International, 2019, 126, 24-36.	4.8	23
67	The Application of Multilevel Modeling in the Analysis of Longitudinal Periodontal Data â€"Part II: Changes in Disease Levels over Time. Journal of Periodontology, 2004, 75, 137-145.	1.7	21
68	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. Journal of Clinical Periodontology, 2001, 28, 961-969.	2.3	20
69	Statistical issues on the analysis of change in followâ€‘up studies in dental research. Community Dentistry and Oral Epidemiology, 2007, 35, 412-420.	0.9	20
70	Time to Begin Adjuvant Chemotherapy and Survival in Breast Cancer Patients: A Retrospective Observational Study Using Latent Class Analysis. Breast Journal, 2014, 20, 29-36.	0.4	20
71	Passive tactile sensibility in edentulous subjects treated with dental implants: A pilot study. Journal of Prosthetic Dentistry, 2004, 91, 26-32.	1.1	19
72	Commentary: Is tooth loss good or bad for general health?. International Journal of Epidemiology, 2005, 34, 475-476.	0.9	18

#	ARTICLE	IF	CITATIONS
73	Age-period-cohort analysis of trends in amyotrophic lateral sclerosis incidence. Journal of Neurology, 2016, 263, 1919-1926.	1.8	18
74	A Comparison of Different Approaches to Unravel the Latent Structure within Metabolic Syndrome. PLoS ONE, 2012, 7, e34410.	1.1	17
75	What do epidemiologists mean by â€˜population mixingâ€™?. Pediatric Blood and Cancer, 2008, 51, 155-160.	0.8	16
76	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.	1.4	15
77	An introduction to meta-analysis within the framework of multilevel modelling using the probability of success of root canal treatment as an illustration. Community Dental Health, 2001, 18, 131-7.	0.2	15
78	Growth, current size and the role of the 'reversal paradox' in the foetal origins of adult disease: an illustration using vector geometry. Epidemiologic Perspectives and Innovations, 2006, 3, 9.	7.0	14
79	Evaluating the quality of active-control trials in periodontal research. Journal of Clinical Periodontology, 2006, 33, 151-156.	2.3	14
80	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, 772-776.	2.0	14
81	Key statistical and analytical issues for evaluating treatment effects in periodontal research. Periodontology 2000, 2012, 59, 75-88.	6.3	14
82	Distinct Body Mass Index Trajectories to Young-Adulthood Obesity and Their Different Cardiometabolic Consequences. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1580-1593.	1.1	14
83	The effect of micro-etching on the retention of orthodontic molar bands: a clinical trial. European Journal of Orthodontics, 2001, 23, 91-97.	1.1	13
84	The impact of imprecisely measured covariates on estimating gene-environment interactions. BMC Medical Research Methodology, 2006, 6, 21.	1.4	13
85	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, 201-212.	1.5	13
86	Preâ€diagnostic blood immune markers, incidence and progression of Bâ€cell lymphoma and multiple myeloma: Univariate and functionally informed multivariate analyses. International Journal of Cancer, 2018, 143, 1335-1347.	2.3	13
87	Changes in oral health over ten years amongst UK children aged 4â€“5 years living in a deprived multiethnic area. British Dental Journal, 2000, 189, 88-92.	0.3	12
88	A structural equation modelling approach to the analysis of change. European Journal of Oral Sciences, 2008, 116, 291-296.	0.7	12
89	Multilevel survival analysis of amalgam restorations amongst RAF personnel. Community Dental Health, 2002, 19, 3-11.	0.2	12
90	Platelet-Derived Growth Factor Maintains Stored Calcium Through a Nonclustering Orai1 Mechanism But Evokes Clustering If the Endoplasmic Reticulum Is Stressed by Store Depletion. Circulation Research, 2012, 111, 66-76.	2.0	11

#	ARTICLE	IF	CITATIONS
91	Mathematical coupling: a multilevel approach. International Journal of Epidemiology, 2004, 33, 1399-1400.	0.9	10
92	Misuses of correlation and regression analyses in orthodontic research: The problem of mathematical coupling. American Journal of Orthodontics and Dentofacial Orthopedics, 2006, 130, 62-68.	0.8	10
93	Unexplained residuals models are not solutions to statistical modeling of the fetal origins hypothesis. Journal of Clinical Epidemiology, 2007, 60, 318-319.	2.4	10
94	Revisiting the interaction between birth weight and current body size in the foetal origins of adult disease. European Journal of Epidemiology, 2007, 22, 565-575.	2.5	10
95	Does population mixing measure infectious exposure in children at the community level?. European Journal of Epidemiology, 2008, 23, 593-600.	2.5	10
96	An exploratory study combining hospital episode statistics with socio-demographic variables, to examine the access and utilisation of hospital oral surgery services. Community Dental Health, 1997, 14, 209-13.	0.2	10
97	The most dangerous hospital or the most dangerous equation?. BMC Health Services Research, 2007, 7, 185.	0.9	9
98	An introduction to latent growth curve modelling for longitudinal continuous data in dental research. European Journal of Oral Sciences, 2009, 117, 343-350.	0.7	9
99	Cholesterol Levels in Later Life Amongst UK Channel Islanders Exposed to the 1940â€"45 German Occupation as Children, Adolescents and Young Adults. Nutrition and Health, 2009, 20, 91-105.	0.6	8
100	Partial least squares path modelling for relations between baseline factors and treatment outcomes in periodontal regeneration. Journal of Clinical Periodontology, 2009, 36, 984-995.	2.3	8
101	The Association Between Childhood Leukemia and Population Mixing. Epidemiology, 2019, 30, 75-82.	1.2	8
102	Statistical profiling of hospital performance using acute coronary syndrome mortality : cardiovascular topic. Cardiovascular Journal of Africa, 2012, 23, 546-551.	0.2	8
103	A full Bayesian hierarchical mixture model for the variance of gene differential expression. BMC Bioinformatics, 2007, 8, 124.	1.2	7
104	Los imperativos Ã©ticos de la pandemia de COVID-19: Un anÃ¡lisis desde la Ã©tica de los datos. VÃ‰ritas, 2020, , 13-35.	0.1	7
105	Ratio index variables or ANCOVA? Fisher's cats revisited. Pharmaceutical Statistics, 2010, 9, 77-83.	0.7	6
106	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research. PLoS ONE, 2019, 14, e0225217.	1.1	6
107	A Multivariate Random Frailty Effects Model for Multiple Spatially Dependent Survival Data. , 2012, , 157-172.		6
108	Disparities in self reported oral health problems among a young Syrian adult population. International Dental Journal, 2002, 52, 449-452.	1.0	5

#	Article	IF	Citations
109	Placental blood transfusion in newborn babies reaches a plateau after 140 s: Further analysis of longitudinal survey of weight change. SAGE Open Medicine, 2013, 1, 205031211350332.	0.7	5
110	Early childhood weight gain: Latent patterns and body composition outcomes. Paediatric and Perinatal Epidemiology, 2021, 35, 557-568.	0.8	5
111	Multilevel latent class casemix modelling: a novel approach to accommodate patient casemix. BMC Health Services Research, 2011, 11, 53.	0.9	4
112	Demonstration of functional rehabilitation treatment effects in children and young people after severe acquired brain injury. Developmental Neurorehabilitation, 2022, 25, 239-245.	0.5	4
113	Monitoring purchaser expenditure patterns. Mathematical Medicine and Biology, 1995, 12, 211-223.	0.8	3
114	A Bayesian analysis of amalgam restorations in the Royal Air Force using the counting process approach with nested frailty effects. Statistical Methods in Medical Research, 2005, 14, 567-578.	0.7	3
115	PLATOON: Premature Loss of bAby Teeth and its impact On Orthodontic Need - protocol. Journal of Orthodontics, 2019, 46, 118-125.	0.4	3
116	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. Biostatistics and Epidemiology, 2020, 4, 172-188.	0.4	3
117	Reply to WC Willett et al.. American Journal of Clinical Nutrition, 2022, 116, 609-610.	2.2	3
118	What evidence is there that adjustment for adult height influences the relationship between birth weight and blood pressure?. Annals of Human Biology, 2007, 34, 252-264.	0.4	2
119	An adaptive empirical Bayesian thresholding procedure for analysing microarray experiments with replication. Journal of the Royal Statistical Society Series C: Applied Statistics, 2007, 56, 271-291.	0.5	2
120	Adjustment for time-invariant and time-varying confounders in â€˜unexplained residualsâ€™ models for longitudinal data within a causal framework and associated challenges. Statistical Methods in Medical Research, 2019, 28, 1347-1364.	0.7	2
121	On Separating the Effects of Body Size and Growth on Later Blood Pressure. Epidemiology, 2010, 21, 452-453.	1.2	1
122	Selection Bias in Epidemiologic Studies. , 2012, , 57-71.		1
123	Authors' reply to the letter to the editor by Wills et al.. International Journal of Epidemiology, 2014, 43, 1664-1665.	0.9	1
124	Response to: Simpsonâ€™s Paradox is suppression, but Lordâ€™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). Emerging Themes in Epidemiology, 2020, 17, 1.	1.2	1
125	Simplifying the interpretation of continuous time models for spatio-temporal networks. Journal of Geographical Systems, 0, , 1.	1.9	1
126	The utility of multilevel models for continuous-time feature selection of spatio-temporal networks. Computers, Environment and Urban Systems, 2022, 91, 101728.	3.3	1

#	Article	IF	Citations
127	TU ET AL. REPLY. American Journal of Epidemiology, 2005, 162, 293-293.	1.6	0
128	Univariate and Multivariate Data Analysis. , 0, , 181-197.		0
129	The Authors Respond. Epidemiology, 2019, 30, e26-e27.	1.2	0
130	Latent class regression improves the predictive acuity and clinical utility of survival prognostication amongst chronic heart failure patients. PLoS ONE, 2021, 16, e0243674.	1.1	0
131	Statistical Interactions and Gene-Environment Joint Effects. , 2012, , 291-311.		0
132	Modelling Data That Exhibit an Excess Number of Zeros: Zero-Inflated Models and Generic Mixture Models. , 2012, , 93-115.		0
133	Multilevel Latent Class Modelling. , 2012, , 117-140.		0
134	Title is missing!. , 2019, 14, e0225217.		0
135	Title is missing!. , 2019, 14, e0225217.		0
136	Title is missing!. , 2019, 14, e0225217.		0
137	Title is missing!. , 2019, 14, e0225217.		0