

Matthew Sperrin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4958141/publications.pdf>

Version: 2024-02-01

110
papers

5,128
citations

147801

31
h-index

106344

65
g-index

113
all docs

113
docs citations

113
times ranked

11609
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction models for diagnosis and prognosis of covid-19: systematic review and critical appraisal. <i>BMJ, The</i> , 2020, 369, m1328.	6.0	2,134
2	Do patients have worse outcomes in heart failure than in cancer? A primary care-based cohort study with 10-year follow-up in Scotland. <i>European Journal of Heart Failure</i> , 2017, 19, 1095-1104.	7.1	213
3	How much is too much? Threshold dose distributions for 5 food allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 964-971.	2.9	156
4	Framework to construct and interpret latent class trajectory modelling. <i>BMJ Open</i> , 2018, 8, e020683.	1.9	149
5	Clinical prediction in defined populations: a simulation study investigating when and how to aggregate existing models. <i>BMC Medical Research Methodology</i> , 2017, 17, 1.	3.1	130
6	A review of statistical updating methods for clinical prediction models. <i>Statistical Methods in Medical Research</i> , 2018, 27, 185-197.	1.5	91
7	Troponin-only Manchester Acute Coronary Syndromes (T-MACS) decision aid: single biomarker re-derivation and external validation in three cohorts. <i>Emergency Medicine Journal</i> , 2017, 34, 349-356.	1.0	84
8	Slowing down of adult body mass index trend increases in England: a latent class analysis of cross-sectional surveys (1992-2010). <i>International Journal of Obesity</i> , 2014, 38, 818-824.	3.4	66
9	Prediction models for diagnosis and prognosis in Covid-19. <i>BMJ, The</i> , 2020, 369, m1464.	6.0	63
10	Dynamic models to predict health outcomes: current status and methodological challenges. <i>Diagnostic and Prognostic Research</i> , 2018, 2, 23.	1.8	61
11	Cloudy with a Chance of Pain: Engagement and Subsequent Attrition of Daily Data Entry in a Smartphone Pilot Study Tracking Weather, Disease Severity, and Physical Activity in Patients With Rheumatoid Arthritis. <i>JMIR MHealth and UHealth</i> , 2017, 5, e37.	3.7	60
12	Consistency of variety of machine learning and statistical models in predicting clinical risks of individual patients: longitudinal cohort study using cardiovascular disease as exemplar. <i>BMJ, The</i> , 2020, 371, m3919.	6.0	59
13	Risk-reducing surgery increases survival in BRCA1/2 mutation carriers unaffected at time of family referral. <i>Breast Cancer Research and Treatment</i> , 2013, 142, 611-618.	2.5	58
14	Blood Transfusion After Percutaneous Coronary Intervention and Risk of Subsequent Adverse Outcomes. <i>JACC: Cardiovascular Interventions</i> , 2015, 8, 436-446.	2.9	58
15	Penalization and shrinkage methods produced unreliable clinical prediction models especially when sample size was small. <i>Journal of Clinical Epidemiology</i> , 2021, 132, 88-96.	5.0	55
16	Identification of Asthma Subtypes Using Clustering Methodologies. <i>Pulmonary Therapy</i> , 2016, 2, 19-41.	2.2	54
17	North-South disparities in English mortality 1965-2015: longitudinal population study. <i>Journal of Epidemiology and Community Health</i> , 2017, 71, 928-936.	3.7	54
18	Missing data should be handled differently for prediction than for description or causal explanation. <i>Journal of Clinical Epidemiology</i> , 2020, 125, 183-187.	5.0	54

#	ARTICLE	IF	CITATIONS
19	Continual updating and monitoring of clinical prediction models: time for dynamic prediction systems?. <i>Diagnostic and Prognostic Research</i> , 2021, 5, 1.	1.8	54
20	Body mass index relates weight to height differently in women and older adults: serial cross-sectional surveys in England (1992â€“2011). <i>Journal of Public Health</i> , 2016, 38, 607-613.	1.8	52
21	Nodal stage migration and prognosis in anal cancer: a systematic review, meta-regression, and simulation study. <i>Lancet Oncology</i> , The, 2017, 18, 1348-1359.	10.7	51
22	Predicting heart failure decompensation using cardiac implantable electronic devices: a review of practices and challenges. <i>European Journal of Heart Failure</i> , 2016, 18, 977-986.	7.1	47
23	A contemporary risk model for predicting 30-day mortality following percutaneous coronary intervention in England and Wales. <i>International Journal of Cardiology</i> , 2016, 210, 125-132.	1.7	47
24	Digital biomarkers from geolocation data in bipolar disorder and schizophrenia: a systematic review. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1412-1420.	4.4	45
25	Inadequacy of existing clinical prediction models for predicting mortality after transcatheter aortic valve implantation. <i>American Heart Journal</i> , 2017, 184, 97-105.	2.7	42
26	Do frailty measures improve prediction of mortality and morbidity following transcatheter aortic valve implantation? An analysis of the UK TAVI registry. <i>BMJ Open</i> , 2018, 8, e022543.	1.9	42
27	Our data, our society, our health: A vision for inclusive and transparent health data science in the United Kingdom and beyond. <i>Learning Health Systems</i> , 2019, 3, e10191.	2.0	42
28	Predictors of Outcome in Traumatic Brain Injury: New Insight Using Receiver Operating Curve Indices and Bayesian Network Analysis. <i>PLoS ONE</i> , 2016, 11, e0158762.	2.5	35
29	Using marginal structural models to adjust for treatment dropâ€“in when developing clinical prediction models. <i>Statistics in Medicine</i> , 2018, 37, 4142-4154.	1.6	34
30	Increased Radial Access Is Not Associated With Worse Femoral Outcomes for Percutaneous Coronary Intervention in the United Kingdom. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, e004279.	3.9	33
31	Same-Day Discharge After Elective Percutaneous Coronary Intervention. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 1479-1494.	2.9	33
32	Prediction models for covid-19 outcomes. <i>BMJ</i> , The, 2020, 371, m3777.	6.0	32
33	Primary Care Medication Safety Surveillance with Integrated Primary and Secondary Care Electronic Health Records: A Cross-Sectional Study. <i>Drug Safety</i> , 2015, 38, 671-682.	3.2	31
34	Novel United Kingdom prognostic model for 30-day mortality following transcatheter aortic valve implantation. <i>Heart</i> , 2018, 104, 1109-1116.	2.9	31
35	Asthma phenotypes in childhood. <i>Expert Review of Clinical Immunology</i> , 2017, 13, 705-713.	3.0	30
36	Adiposity-Mortality Relationships in Type 2 Diabetes, Coronary Heart Disease, and Cancer Subgroups in the UK Biobank, and Their Modification by Smoking. <i>Diabetes Care</i> , 2018, 41, 1878-1886.	8.6	30

#	ARTICLE	IF	CITATIONS
37	Interface design recommendations for computerised clinical audit and feedback: Hybrid usability evidence from a research-led system. <i>International Journal of Medical Informatics</i> , 2016, 94, 191-206.	3.3	26
38	Body mass index trajectories across adulthood and smoking in relation to prostate cancer risks: the NIH-AARP Diet and Health Study. <i>International Journal of Epidemiology</i> , 2019, 48, 464-473.	1.9	26
39	Longitudinal trajectories of severe wheeze exacerbations from infancy to school age and their association with early-life risk factors and late asthma outcomes. <i>Clinical and Experimental Allergy</i> , 2020, 50, 315-324.	2.9	26
40	Operator volume is not associated with mortality following percutaneous coronary intervention: insights from the British Cardiovascular Intervention Society registry. <i>European Heart Journal</i> , 2018, 39, 1623-1634.	2.2	24
41	A scoping review of causal methods enabling predictions under hypothetical interventions. <i>Diagnostic and Prognostic Research</i> , 2021, 5, 3.	1.8	24
42	Is There a Relationship of Operator and Center Volume With Access Site-Related Outcomes?. <i>Circulation: Cardiovascular Interventions</i> , 2016, 9, e003333.	3.9	23
43	Multi-method laboratory user evaluation of an actionable clinical performance information system: Implications for usability and patient safety. <i>Journal of Biomedical Informatics</i> , 2018, 77, 62-80.	4.3	23
44	Antibiotic prescribing patterns in general medical practices in England: Does area matter?. <i>Health and Place</i> , 2018, 53, 10-16.	3.3	22
45	Obesity paradox and mortality in adults with and without incident type 2 diabetes: a matched population-level cohort study. <i>BMJ Open Diabetes Research and Care</i> , 2017, 5, e000369.	2.8	21
46	Young adulthood body mass index, adult weight gain and breast cancer risk: the PROCAS Study (United Kingdom). <i>International Journal of Epidemiology</i> , 2019, 48, 1000-1007.	6.4	21
47	Missing data was handled inconsistently in UK prediction models: a review of method used. <i>Journal of Clinical Epidemiology</i> , 2021, 140, 149-158.	5.0	21
48	Multiple imputation with missing indicators as proxies for unmeasured variables: simulation study. <i>BMC Medical Research Methodology</i> , 2020, 20, 185.	3.1	20
49	Informative presence and observation in routine health data: A review of methodology for clinical risk prediction. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 155-166.	4.4	20
50	Do population-level risk prediction models that use routinely collected health data reliably predict individual risks?. <i>Scientific Reports</i> , 2019, 9, 11222.	3.3	19
51	Relationship between prescribing of antibiotics and other medicines in primary care: a cross-sectional study. <i>British Journal of General Practice</i> , 2019, 69, e42-e51.	1.4	19
52	The Obesity Paradox and Mortality After Colorectal Cancer. <i>JAMA Oncology</i> , 2016, 2, 1127.	7.1	18
53	Explicit causal reasoning is needed to prevent prognostic models being victims of their own success. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1675-1676.	4.4	17
54	Examining the impact of data quality and completeness of electronic health records on predictions of patients' risks of cardiovascular disease. <i>International Journal of Medical Informatics</i> , 2020, 133, 104033.	3.3	17

#	ARTICLE	IF	CITATIONS
55	Calculating when elective abdominal aortic aneurysm repair improves survival for individual patients: development of the Aneurysm Repair Decision Aid and economic evaluation. <i>Health Technology Assessment</i> , 2015, 19, 1-154.	2.8	17
56	Toward a framework for the design, implementation, and reporting of methodology scoping reviews. <i>Journal of Clinical Epidemiology</i> , 2020, 127, 191-197.	5.0	16
57	Clinical prediction models to predict the risk of multiple binary outcomes: a comparison of approaches. <i>Statistics in Medicine</i> , 2021, 40, 498-517.	1.6	16
58	Who Self-Weighs and What Do They Gain From It? A Retrospective Comparison Between Smart Scale Users and the General Population in England. <i>Journal of Medical Internet Research</i> , 2016, 18, e17.	4.3	16
59	Mortality in People with Type 2 Diabetes Following SARS-CoV-2 Infection: A Population Level Analysis of Potential Risk Factors. <i>Diabetes Therapy</i> , 2022, 13, 1037-1051.	2.5	16
60	Relative Survival After Transcatheter Aortic Valve Implantation: How Do Patients Undergoing Transcatheter Aortic Valve Implantation Fare Relative to the General Population?. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	15
61	Understanding clinical prediction models as "innovations": a mixed methods study in UK family practice. <i>BMC Medical Informatics and Decision Making</i> , 2016, 16, 106.	3.0	14
62	Effect of weekend admission on process of care and clinical outcomes for the management of acute coronary syndromes: a retrospective analysis of three UK centres. <i>BMJ Open</i> , 2017, 7, e016866.	1.9	14
63	Impact of sample size on the stability of risk scores from clinical prediction models: a case study in cardiovascular disease. <i>Diagnostic and Prognostic Research</i> , 2020, 4, 14.	1.8	14
64	Predictive Models for Arteriovenous Fistula Maturation. <i>Journal of Vascular Access</i> , 2016, 17, 229-232.	0.9	13
65	Post-2000 growth trajectories in children aged 4-11 years: A review and quantitative analysis. <i>Preventive Medicine Reports</i> , 2019, 14, 100834.	1.8	13
66	Dealing with under-reported variables: An information theoretic solution. <i>International Journal of Approximate Reasoning</i> , 2017, 85, 159-177.	3.3	12
67	A multiple-model generalisation of updating clinical prediction models. <i>Statistics in Medicine</i> , 2018, 37, 1343-1358.	1.6	12
68	Study investigating the generalisability of a COPD trial based in primary care (Salford Lung Study) and the presence of a Hawthorne effect. <i>BMJ Open Respiratory Research</i> , 2018, 5, e000339.	3.0	12
69	Association of comorbid burden with clinical outcomes after transcatheter aortic valve implantation. <i>Heart</i> , 2018, 104, 2058-2066.	2.9	12
70	Multivariable and Bayesian Network Analysis of Outcome Predictors in Acute Aneurysmal Subarachnoid Hemorrhage: Review of a Pure Surgical Series in the Post-International Subarachnoid Aneurysm Trial Era. <i>Operative Neurosurgery</i> , 2018, 14, 603-610.	0.8	11
71	Correcting for rater bias in scores on a continuous scale, with application to breast density. <i>Statistics in Medicine</i> , 2013, 32, 4666-4678.	1.6	10
72	Developing clinical prediction models when adhering to minimum sample size recommendations: The importance of quantifying bootstrap variability in tuning parameters and predictive performance. <i>Statistical Methods in Medical Research</i> , 2021, 30, 2545-2561.	1.5	10

#	ARTICLE	IF	CITATIONS
73	The Risk Factors Potentially Influencing Hospital Admission in People with Diabetes, Following SARS-CoV-2 Infection: A Population-Level Analysis. <i>Diabetes Therapy</i> , 2022, 13, 1007.	2.5	10
74	Cytochrome P1B1 (CYP1B1) polymorphisms and ovarian cancer risk: A meta-analysis. <i>Toxicology</i> , 2012, 302, 157-162.	4.2	9
75	Modelling time to event with observations made at arbitrary times. <i>Statistics in Medicine</i> , 2013, 32, 99-109.	1.6	9
76	Impact of age on the prognostic value of left ventricular function in relation to procedural outcomes following percutaneous coronary intervention: Insights from the <sc>B</sc>ritish cardiovascular intervention society. <i>Catheterization and Cardiovascular Interventions</i> , 2015, 85, 944-951.	1.7	9
77	Chronic obstructive pulmonary disease exacerbation episodes derived from electronic health record data validated using clinical trial data. <i>Pharmacoepidemiology and Drug Safety</i> , 2019, 28, 1369-1376.	1.9	9
78	Estimating the causal effect of BMI on mortality risk in people with heart disease, diabetes and cancer using Mendelian randomization. <i>International Journal of Cardiology</i> , 2021, 330, 214-220.	1.7	9
79	Performance of prediction models for COVID-19: the Caudine Forks of the external validation. <i>European Respiratory Journal</i> , 2020, 56, 2003728.	6.7	9
80	Evaluation of Prognostic and Predictive Models in the Oncology Clinic. <i>Clinical Oncology</i> , 2022, 34, 102-113.	1.4	9
81	Temporal trends in relative survival following percutaneous coronary intervention. <i>BMJ Open</i> , 2019, 9, e024627.	1.9	8
82	Adaptive Symptom Monitoring Using Hidden Markov Models – An Application in Ecological Momentary Assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1770-1780.	6.3	8
83	Immune infiltrate diversity confers a good prognosis in follicular lymphoma. <i>Cancer Immunology, Immunotherapy</i> , 2021, 70, 3573-3585.	4.2	8
84	Interaction between co-morbidities and cancer survival. <i>European Journal of Epidemiology</i> , 2019, 34, 1103-1105.	5.7	7
85	Engaging parents using web-based feedback on child growth to reduce childhood obesity: a mixed methods study. <i>BMC Public Health</i> , 2019, 19, 300.	2.9	7
86	Temporal improvements in loco-regional failure and survival in patients with anal cancer treated with chemo-radiotherapy: treatment cohort study (1990–2014). <i>British Journal of Cancer</i> , 2020, 122, 749-758.	6.4	7
87	Informative Observation in Health Data: Association of Past Level and Trend with Time to Next Measurement. <i>Studies in Health Technology and Informatics</i> , 2017, 235, 261-265.	0.3	7
88	Investigation of the robustness of two models for assessing synergy in pre-clinical drug combination studies. <i>Pharmaceutical Statistics</i> , 2013, 12, 300-308.	1.3	6
89	Tilting the lasso by knowledge-based post-processing. <i>BMC Bioinformatics</i> , 2016, 17, 344.	2.6	6
90	A protocol for a systematic review to identify allergenic tree nuts and the molecules responsible for their allergenic properties. <i>Food and Chemical Toxicology</i> , 2017, 106, 411-416.	3.6	6

#	ARTICLE	IF	CITATIONS
91	A comparison of methods for estimating the temporal change in a continuous variable: Example of HbA1c in patients with diabetes. <i>Pharmacoepidemiology and Drug Safety</i> , 2017, 26, 1474-1482.	1.9	5
92	Pre-procedural risk models for patients undergoing transcatheter aortic valve implantation. <i>Journal of Thoracic Disease</i> , 2018, 10, S3560-S3567.	1.4	5
93	Infection-related complications after common infection in association with new antibiotic prescribing in primary care: retrospective cohort study using linked electronic health records. <i>BMJ Open</i> , 2021, 11, e041218.	1.9	5
94	Experimental designs for detecting synergy and antagonism between two drugs in a pre-clinical study. <i>Pharmaceutical Statistics</i> , 2015, 14, 216-225.	1.3	4
95	Body-mass index and metastatic melanoma outcomes. <i>Lancet Oncology</i> , The, 2018, 19, e225.	10.7	4
96	Invited Commentary: Treatment Drop-in—Making the Case for Causal Prediction. <i>American Journal of Epidemiology</i> , 2021, 190, 2015-2018.	3.4	4
97	Direct effects testing: A two-stage procedure to test for effect size and variable importance for correlated binary predictors and a binary response. <i>Statistics in Medicine</i> , 2010, 29, 2544-2556.	1.6	3
98	Making audit actionable: an example algorithm for blood pressure management in chronic kidney disease. <i>AMIA ... Annual Symposium proceedings</i> , 2014, 2014, 343-52.	0.2	3
99	Body mass index and cancer mortality in patients with incident type 2 diabetes: A population-based study of adults in England. <i>Diabetes, Obesity and Metabolism</i> , 2022, 24, 620-630.	4.4	3
100	The Authors Respond. <i>Epidemiology</i> , 2017, 28, e46.	2.7	2
101	Link Between Obesity and Early-Onset Colorectal Cancers (EOCRC): Importance of Accounting for BMI Trajectories in Early Life. <i>American Journal of Gastroenterology</i> , 2022, 117, 812-812.	0.4	2
102	Recovering Independent Associations in Genetics: A Comparison. <i>Journal of Computational Biology</i> , 2012, 19, 978-987.	1.6	1
103	Three-dimensional (3D) magnetic resonance volume assessment and loco-regional failure in anal cancer: early evaluation case-control study. <i>BMC Cancer</i> , 2020, 20, 1165.	2.6	1
104	Development and internal validation of a clinical prediction model for 90-day mortality after lung resection: the RESECT-90 score. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2021, 33, 921-927.	1.1	1
105	Application of a city wide digital population database for outcome analysis in diabetes: SARS-CoV-2, diabetes and hospital admission rate month by month in Greater Manchester, UK. <i>Cardiovascular Endocrinology and Metabolism</i> , 2022, 11, e0257.	1.1	1
106	SARS-CoV-2, diabetes and mortality: month by month variation in mortality rate from June 2020 to June 2021. <i>Cardiovascular Endocrinology and Metabolism</i> , 2022, 11, e0258.	1.1	1
107	Metformin, Diabetes, and Survival among U.S. Veterans with Colorectal Cancer—Letter. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 976-976.	2.5	0
108	The Authors Respond. <i>Epidemiology</i> , 2017, 28, e17-e18.	2.7	0

#	ARTICLE	IF	CITATIONS
109	Authors' reply to Sabour and Ghajari "Clinical prediction models to predict the risk of multiple binary outcomes: Methodological issues". <i>Statistics in Medicine</i> , 2021, 40, 1861-1862.	1.6	0
110	Consistency of ranking was evaluated as new measure for prediction model stability: longitudinal cohort study. <i>Journal of Clinical Epidemiology</i> , 2021, 138, 168-177.	5.0	0