

Simon P Washington

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4904868/publications.pdf>

Version: 2024-02-01

134
papers

9,009
citations

44042

48
h-index

49868

87
g-index

135
all docs

135
docs citations

135
times ranked

5410
citing authors

#	ARTICLE	IF	CITATIONS
1	Poisson, Poisson-gamma and zero-inflated regression models of motor vehicle crashes: balancing statistical fit and theory. <i>Accident Analysis and Prevention</i> , 2005, 37, 35-46.	3.0	601
2	Statistical and Econometric Methods for Transportation Data Analysis. , 0, , .		580
3	Bike Share: A Synthesis of the Literature. <i>Transport Reviews</i> , 2013, 33, 148-165.	4.7	516
4	Bike share's impact on car use: Evidence from the United States, Great Britain, and Australia. <i>Transportation Research, Part D: Transport and Environment</i> , 2014, 31, 13-20.	3.2	356
5	Barriers and facilitators to public bicycle scheme use: A qualitative approach. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2012, 15, 686-698.	1.8	236
6	Experimental evaluation of hotspot identification methods. <i>Accident Analysis and Prevention</i> , 2005, 37, 870-881.	3.0	229
7	Advance transit oriented development typology: case study in Brisbane, Australia. <i>Journal of Transport Geography</i> , 2014, 34, 54-70.	2.3	222
8	Structural Equation Model of Construction Contract Dispute Potential. <i>Journal of Construction Engineering and Management - ASCE</i> , 2000, 126, 268-277.	2.0	206
9	Understanding the impacts of mobile phone distraction on driving performance: A systematic review. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 72, 360-380.	3.9	198
10	On the nature of over-dispersion in motor vehicle crash prediction models. <i>Accident Analysis and Prevention</i> , 2007, 39, 459-468.	3.0	189
11	Further notes on the application of zero-inflated models in highway safety. <i>Accident Analysis and Prevention</i> , 2007, 39, 53-57.	3.0	177
12	Barriers to bikesharing: an analysis from Melbourne and Brisbane. <i>Journal of Transport Geography</i> , 2014, 41, 325-337.	2.3	176
13	Forecasting Crashes at the Planning Level: Simultaneous Negative Binomial Crash Model Applied in Tucson, Arizona. <i>Transportation Research Record</i> , 2004, 1897, 191-199.	1.0	175
14	Accident prediction model for railway-highway interfaces. <i>Accident Analysis and Prevention</i> , 2006, 38, 346-356.	3.0	164
15	Modeling crash outcome probabilities at rural intersections: Application of hierarchical binomial logistic models. <i>Accident Analysis and Prevention</i> , 2007, 39, 125-134.	3.0	162
16	Shortest path and vehicle trajectory aided map-matching for low frequency GPS data. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 55, 328-339.	3.9	150
17	Factors influencing bike share membership: An analysis of Melbourne and Brisbane. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 71, 17-30.	2.0	146
18	Hazard based models for freeway traffic incident duration. <i>Accident Analysis and Prevention</i> , 2013, 52, 171-181.	3.0	138

#	ARTICLE	IF	CITATIONS
19	New Criteria for Evaluating Methods of Identifying Hot Spots. <i>Transportation Research Record</i> , 2008, 2083, 76-85.	1.0	136
20	The impact of mobile phone distraction on the braking behaviour of young drivers: A hazard-based duration model. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 50, 13-27.	3.9	136
21	A simultaneous equations model of crash frequency by collision type for rural intersections. <i>Safety Science</i> , 2009, 47, 443-452.	2.6	134
22	A parametric duration model of the reaction times of drivers distracted by mobile phone conversations. <i>Accident Analysis and Prevention</i> , 2014, 62, 42-53.	3.0	134
23	Effects of road infrastructure and traffic complexity in speed adaptation behaviour of distracted drivers. <i>Accident Analysis and Prevention</i> , 2017, 101, 67-77.	3.0	117
24	Framework for Measuring Corporate Safety Culture and Its Impact on Construction Safety Performance. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009, 135, 488-496.	2.0	114
25	Impact of real-time traffic characteristics on freeway crash occurrence: Systematic review and meta-analysis. <i>Accident Analysis and Prevention</i> , 2015, 79, 198-211.	3.0	107
26	A systematic mapping review of surrogate safety assessment using traffic conflict techniques. <i>Accident Analysis and Prevention</i> , 2021, 153, 106016.	3.0	105
27	Impact of mobile phone use on car-following behaviour of young drivers. <i>Accident Analysis and Prevention</i> , 2015, 82, 10-19.	3.0	104
28	Validation of FHWA Crash Models for Rural Intersections: Lessons Learned. <i>Transportation Research Record</i> , 2003, 1840, 41-49.	1.0	103
29	Risk factors of mobile phone use while driving in Queensland: Prevalence, attitudes, crash risk perception, and task-management strategies. <i>PLoS ONE</i> , 2017, 12, e0183361.	1.1	103
30	A comparison between simulated and field-measured conflicts for safety assessment of signalized intersections in Australia. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 101, 96-110.	3.9	89
31	The significance of endogeneity problems in crash models: An examination of left-turn lanes in intersection crash models. <i>Accident Analysis and Prevention</i> , 2006, 38, 1094-1100.	3.0	88
32	Revisiting the Task-Capability Interface model for incorporating human factors into car-following models. <i>Transportation Research Part B: Methodological</i> , 2015, 82, 1-19.	2.8	87
33	On the significance of omitted variables in intersection crash modeling. <i>Accident Analysis and Prevention</i> , 2012, 49, 439-448.	3.0	84
34	Bikeshare's impact on active travel: Evidence from the United States, Great Britain, and Australia. <i>Journal of Transport and Health</i> , 2015, 2, 135-142.	1.1	81
35	Modelling total duration of traffic incidents including incident detection and recovery time. <i>Accident Analysis and Prevention</i> , 2014, 71, 296-305.	3.0	77
36	Modeling Crash Types: New Insights into the Effects of Covariates on Crashes at Rural Intersections. <i>Journal of Transportation Engineering</i> , 2006, 132, 282-292.	0.9	76

#	ARTICLE	IF	CITATIONS
37	Residential dissonance and mode choice. <i>Journal of Transport Geography</i> , 2013, 33, 12-28.	2.3	75
38	A hazard-based duration model to quantify the impact of connected driving environment on safety during mandatory lane-changing. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 106, 113-131.	3.9	75
39	Built environment impacts on walking for transport in Brisbane, Australia. <i>Transportation</i> , 2016, 43, 53-77.	2.1	67
40	Applying quantile regression for modeling equivalent property damage only crashes to identify accident blackspots. <i>Accident Analysis and Prevention</i> , 2014, 66, 136-146.	3.0	66
41	The impact of red light cameras on safety in Arizona. <i>Accident Analysis and Prevention</i> , 2007, 39, 1212-1221.	3.0	61
42	Evaluation of the Scottsdale Loop 101 automated speed enforcement demonstration program. <i>Accident Analysis and Prevention</i> , 2009, 41, 393-403.	3.0	58
43	“Mate! I’m running 10%min late” An investigation into the self-regulation of mobile phone tasks while driving. <i>Accident Analysis and Prevention</i> , 2019, 122, 134-142.	3.0	58
44	Should I Text or Call Here? A Situation-Based Analysis of Drivers’ Perceived Likelihood of Engaging in Mobile Phone Multitasking. <i>Risk Analysis</i> , 2018, 38, 2144-2160.	1.5	57
45	Understanding the discretionary lane-changing behaviour in the connected environment. <i>Accident Analysis and Prevention</i> , 2020, 137, 105463.	3.0	56
46	Associations between individual socioeconomic position, neighbourhood disadvantage and transport mode: baseline results from the HABITAT multilevel study. <i>Journal of Epidemiology and Community Health</i> , 2015, 69, 1217-1223.	2.0	55
47	Self-regulation of driving speed among distracted drivers: An application of driver behavioral adaptation theory. <i>Traffic Injury Prevention</i> , 2017, 18, 599-605.	0.6	53
48	On selecting an optimal wavelet for detecting singularities in traffic and vehicular data. <i>Transportation Research Part C: Emerging Technologies</i> , 2012, 25, 18-33.	3.9	50
49	Investigation of pedestrian crashes on two-way two-lane rural roads in Ethiopia. <i>Accident Analysis and Prevention</i> , 2015, 78, 118-126.	3.0	50
50	Decisions and actions of distracted drivers at the onset of yellow lights. <i>Accident Analysis and Prevention</i> , 2016, 96, 290-299.	3.0	50
51	Understanding the mechanism of traffic hysteresis and traffic oscillations through the change in task difficulty level. <i>Transportation Research Part B: Methodological</i> , 2017, 105, 523-538.	2.8	49
52	Development of Accident Prediction Models for Rural Highway Intersections. <i>Transportation Research Record</i> , 2004, 1897, 18-27.	1.0	48
53	Gender and age differences in walking for transport and recreation: Are the relationships the same in all neighborhoods?. <i>Preventive Medicine Reports</i> , 2016, 4, 75-80.	0.8	48
54	Bayesian methodology incorporating expert judgment for ranking countermeasure effectiveness under uncertainty: Example applied to at grade railroad crossings in Korea. <i>Accident Analysis and Prevention</i> , 2006, 38, 234-247.	3.0	46

#	ARTICLE	IF	CITATIONS
55	Gap Acceptance Behavior of Mobile Phone-“Distracted Drivers at Roundabouts. <i>Transportation Research Record</i> , 2016, 2602, 43-51.	1.0	45
56	CLACD: A complete Lane-Changing decision modeling framework for the connected and traditional environments. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103162.	3.9	41
57	Household type and structure, time-use pattern, and trip-chaining behavior. <i>Transportation Research, Part A: Policy and Practice</i> , 2007, 41, 1004-1020.	2.0	40
58	A systematic review of traffic conflict-based safety measures with a focus on application context. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100185.	4.7	40
59	Injury severity of pedestrians involved in road traffic crashes in Addis Ababa, Ethiopia. <i>Journal of Transportation Safety and Security</i> , 2017, 9, 47-66.	1.1	38
60	Applying a joint model of crash count and crash severity to identify road segments with high risk of fatal and serious injury crashes. <i>Accident Analysis and Prevention</i> , 2020, 144, 105615.	3.0	38
61	Using walkability measures to identify train stations with the potential to become transit oriented developments located in walkable neighbourhoods. <i>Journal of Transport Geography</i> , 2019, 76, 221-231.	2.3	37
62	An inter-regional comparison: fatal crashes in the southeastern and non-southeastern United States: preliminary findings. <i>Accident Analysis and Prevention</i> , 1999, 31, 135-146.	3.0	34
63	Projected prevalence of car-sharing in four Asian-Pacific countries in 2030: What the experts think. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 84, 158-177.	3.9	34
64	A comprehensive joint econometric model of motor vehicle crashes arising from multiple sources of risk. <i>Analytic Methods in Accident Research</i> , 2018, 18, 1-14.	4.7	34
65	Empirical Investigation of Interactive Highway Safety Design Model Accident Prediction Algorithm: Rural Intersections. <i>Transportation Research Record</i> , 2003, 1840, 78-86.	1.0	33
66	Preference heterogeneity in mode choice for car-sharing and shared automated vehicles. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 132, 633-650.	2.0	33
67	A statistical model for estimating oxides of nitrogen emissions from light duty motor vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 1999, 4, 333-352.	3.2	32
68	Do differences in built environments explain age differences in transport walking across neighbourhoods?. <i>Journal of Transport and Health</i> , 2018, 9, 83-95.	1.1	31
69	Applying fractional split model to examine the effects of roadway geometric and traffic characteristics on speeding behavior. <i>Traffic Injury Prevention</i> , 2018, 19, 860-866.	0.6	30
70	A bivariate extreme value model for estimating crash frequency by severity using traffic conflicts. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100180.	4.7	30
71	How many are enough?: Investigating the effectiveness of multiple conflict indicators for crash frequency-by-severity estimation by automated traffic conflict analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 138, 103653.	3.9	30
72	Determinants of residential dissonance: Implications for transit-oriented development in Brisbane. <i>International Journal of Sustainable Transportation</i> , 2016, 10, 960-974.	2.1	29

#	ARTICLE	IF	CITATIONS
73	Examining the impact of car-sharing on private vehicle ownership. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 138, 322-341.	2.0	29
74	Effects of Transportation Accessibility on Residential Property Values. <i>Transportation Research Record</i> , 2007, 1994, 66-73.	1.0	28
75	Reprint of: Modelling the impact of traffic incidents on travel time reliability. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 70, 86-97.	3.9	28
76	Visual assessment of pedestrian crashes. <i>Accident Analysis and Prevention</i> , 2011, 43, 301-306.	3.0	27
77	Neighborhood disadvantage, individual-level socioeconomic position and physical function: A cross-sectional multilevel analysis. <i>Preventive Medicine</i> , 2016, 89, 112-120.	1.6	27
78	Examination of relationships between urban form, household activities, and time allocation in the Atlanta Metropolitan Region. <i>Transportation Research, Part A: Policy and Practice</i> , 2009, 43, 360-373.	2.0	25
79	Property Damage Crash Equivalency Factors to Solve Crash Frequencyâ€“Severity Dilemma: Case Study on South Korean Rural Roads. <i>Transportation Research Record</i> , 2010, 2148, 83-92.	1.0	25
80	Analysis of Traffic Injury Severity in Dhaka, Bangladesh. <i>Transportation Research Record</i> , 2014, 2451, 121-130.	1.0	25
81	Hierarchical Tree-Based Versus Ordinary Least Squares Linear Regression Models: Theory and Example Applied to Trip Generation. <i>Transportation Research Record</i> , 1997, 1581, 82-88.	1.0	24
82	Effects of globally obtained informative priors on bayesian safety performance functions developed for Australian crash data. <i>Accident Analysis and Prevention</i> , 2019, 129, 55-65.	3.0	24
83	Relationships between Self-Reported Bicycling Injuries and Perceived Risk of Cyclists in Queensland, Australia. <i>Transportation Research Record</i> , 2012, 2314, 57-65.	1.0	23
84	Bayesian Latent Class Safety Performance Function for Identifying Motor Vehicle Crash Black Spots. <i>Transportation Research Record</i> , 2016, 2601, 90-98.	1.0	23
85	Preference heterogeneity in mode choice based on a nationwide survey with a focus on urban rail. <i>Transportation Research, Part A: Policy and Practice</i> , 2016, 91, 178-194.	2.0	23
86	Modelling the impact of traffic incidents on travel time reliability. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 65, 49-60.	3.9	23
87	Incorporating behavioral variables into crash count prediction by severity: A multivariate multiple risk source approach. <i>Accident Analysis and Prevention</i> , 2019, 129, 277-288.	3.0	23
88	Differences in the Performance of Safety Performance Functions Estimated for Total Crash Count and for Crash Count by Crash Type. <i>Transportation Research Record</i> , 2009, 2102, 115-123.	1.0	22
89	Physical activity-related health and economic benefits of building walkable neighbourhoods: a modelled comparison between brownfield and greenfield developments. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2019, 16, 11.	2.0	22
90	The impact of a congestion pricing exemption on the demand for new energy efficient vehicles in Stockholm. <i>Transportation Research, Part A: Policy and Practice</i> , 2014, 70, 24-40.	2.0	21

#	ARTICLE	IF	CITATIONS
91	Empirical Bayes method in the study of traffic safety via heterogeneous negative multinomial model. <i>Transportmetrica</i> , 2012, 8, 131-147.	1.8	20
92	Attribute exclusion strategies in airline choice: accounting for exogenous information on decision maker processing strategies in models of discrete choice. <i>Transportmetrica</i> , 2012, 8, 344-360.	1.8	20
93	European advanced driver training programs: Reasons for optimism. <i>IATSS Research</i> , 2011, 34, 72-79.	1.8	19
94	Australian baby boomers switched to more environment friendly modes of transport during the global financial crisis. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 2133-2144.	1.8	19
95	Iteratively Specified Tree-Based Regression: Theory and Trip Generation Example. <i>Journal of Transportation Engineering</i> , 2000, 126, 482-491.	0.9	18
96	Does Residential Dissonance Affect Residential Mobility?. <i>Transportation Research Record</i> , 2013, 2344, 59-67.	1.0	18
97	Contrasting case-wise deletion with multiple imputation and latent variable approaches to dealing with missing observations in count regression models. <i>Analytic Methods in Accident Research</i> , 2019, 24, 100104.	4.7	18
98	Binary Recursive Partitioning Method for Modeling Hot-Stabilized Emissions From Motor Vehicles. <i>Transportation Research Record</i> , 1997, 1587, 96-105.	1.0	17
99	Detecting, analysing, and modelling failed lane-changing attempts in traditional and connected environments. <i>Analytic Methods in Accident Research</i> , 2020, 28, 100138.	4.7	17
100	Predicting Single-Vehicle Fatal Crashes for Two-Lane Rural Highways in Southeastern United States. <i>Transportation Research Record</i> , 2010, 2147, 88-96.	1.0	15
101	Identifying Large Truck Hot Spots Using Crash Counts and PDOEs. <i>Journal of Transportation Engineering</i> , 2011, 137, 11-21.	0.9	15
102	High-Emitting Vehicle Characterization Using Regression Tree Analysis. <i>Transportation Research Record</i> , 1998, 1641, 58-65.	1.0	14
103	Bayesian Multinomial Logit. <i>Transportation Research Record</i> , 2009, 2136, 28-36.	1.0	13
104	Transferability of multivariate extreme value models for safety assessment by applying artificial intelligence-based video analytics. <i>Accident Analysis and Prevention</i> , 2022, 170, 106644.	3.0	13
105	Proactive detection of high collision concentration locations on highways. <i>Transportation Research, Part A: Policy and Practice</i> , 2011, 45, 927-934.	2.0	11
106	Long-term forecasts for energy commodities price: What the experts think. <i>Energy Economics</i> , 2019, 84, 104484.	5.6	11
107	The Impact of Different Incentive Policies on Hybrid Electric Vehicle Demand and Price: An International Comparison. <i>World Electric Vehicle Journal</i> , 2019, 10, 20.	1.6	11
108	Expected Safety Performance of Rural Signalized Intersections in South Korea. <i>Transportation Research Record</i> , 2009, 2114, 72-82.	1.0	9

#	ARTICLE	IF	CITATIONS
109	User satisfaction with train fares: A comparative analysis in five Australian cities. PLoS ONE, 2018, 13, e0199449.	1.1	9
110	Short-Term Traffic Flow Forecasting: A Component-Wise Gradient Boosting Approach With Hierarchical Reconciliation. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5060-5072.	4.7	9
111	A bivariate random effects spatial model of traffic fatalities and injuries across Provinces of Iran. Accident Analysis and Prevention, 2020, 136, 105394.	3.0	9
112	Use of Expert Panels in Highway Safety. Transportation Research Record, 2009, 2102, 101-107.	1.0	9
113	Forecasting Dynamic Vehicular Activity on Freeways: Bridging the Gap Between Travel Demand and Emerging Emissions Models. Transportation Research Record, 1999, 1664, 31-39.	1.0	8
114	Transitioning to energy efficient vehicles: An analysis of the potential rebound effects and subsequent impact upon emissions. Transportation Research, Part A: Policy and Practice, 2015, 74, 250-267.	2.0	8
115	The potential for walkability to narrow neighbourhood socioeconomic inequalities in physical function: A case study of middle-aged to older adults in Brisbane, Australia. Health and Place, 2019, 56, 99-105.	1.5	8
116	Feasibility of "Subjective" Engineering Assessments of Road Safety Improvements: Bayesian Analysis Development. Transportation Research Record, 2001, 1758, 36-43.	1.0	7
117	Bayesian imputation of non-chosen attribute values in revealed preference surveys. Journal of Advanced Transportation, 2014, 48, 48-65.	0.9	7
118	Investigating Pedestrian Injury Crashes on Modern Roundabouts in Addis Ababa, Ethiopia. Transportation Research Record, 2015, 2512, 1-10.	1.0	7
119	Do Differences in Social Environments Explain Gender Differences in Recreational Walking across Neighbourhoods?. International Journal of Environmental Research and Public Health, 2019, 16, 1980.	1.2	7
120	Safety-Restraint Use Rate as Function of Law Enforcement and Other Factors: Preliminary Analysis. Transportation Research Record, 2001, 1779, 109-115.	1.0	6
121	Analysis of Distance Learner Value Assessment of Distance Education in Engineering. Journal of Professional Issues in Engineering Education and Practice, 2014, 140, 04013001.	0.9	6
122	A comparative analysis of road safety across the provinces of Iran from 2005 to 2015. International Journal of Sustainable Transportation, 2020, 15, 131-139.	2.1	6
123	A Methodology for Estimating Exposure-controlled Crash Risk Using Traffic Police Crash Data. Procedia, Social and Behavioral Sciences, 2013, 104, 972-981.	0.5	5
124	Using digital technologies to deliver scenarios to geographically dispersed stakeholders: Lessons learned from the transportation sector. Futures, 2020, 120, 102567.	1.4	5
125	A comprehensive analysis on the effects of signal strategies, intersection geometry, and traffic operation factors on right-turn crashes at signalised intersections: An application of hierarchical crash frequency model. Accident Analysis and Prevention, 2022, 171, 106663.	3.0	5
126	Critical delay factors in power transmission projects: a structural equation modeling approach. International Journal of Construction Management, 2022, 22, 1158-1170.	2.2	4

#	ARTICLE	IF	CITATIONS
127	Forecasting vehicle modes of operation needed as input to "modal" emissions models. International Journal of Vehicle Design, 1998, 20, 351.	0.1	3
128	Proactive detection of high collision concentration locations on highways. Procedia, Social and Behavioral Sciences, 2011, 17, 634-645.	0.5	3
129	Chapter 16. Detecting High-Risk Accident Locations. Transport and Sustainability, 2018, , 351-382.	0.2	3
130	Thinking together about the future when you are not together: The effectiveness of using developed scenarios among geographically distributed groups. Technological Forecasting and Social Change, 2018, 133, 206-219.	6.2	3
131	Using Video Data To Measure Vehicle Operating Modes for Prediction of Emissions. Transportation Research Record, 1999, 1664, 21-30.	1.0	2
132	Conducting Statistical Tests of Hypotheses: Five Common Misconceptions Found in Transportation Research. Transportation Research Record, 1999, 1665, 1-6.	1.0	2
133	How automated speed enforcement may reduce travel time variability and result in travel time savings: The case study of the loop 101 speed enforcement program in Scottsdale, Arizona. KSCE Journal of Civil Engineering, 2011, 15, 167-174.	0.9	0
134	Importance of a Resilient Air Services Network to Australian Remote, Rural, and Regional Communities. Transportation Research Record, 2012, 2300, 155-161.	1.0	0