

# Harvey J Miller

## List of Publications by Year in descending order

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Version: 2024-02-01

124  
papers

6,472  
citations

87723

38  
h-index

74018

75  
g-index

131  
all docs

131  
docs citations

131  
times ranked

4502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tobler's First Law and Spatial Analysis. <i>Annals of the American Association of Geographers</i> , 2004, 94, 284-289.	3.0	549
2	Modelling accessibility using space-time prism concepts within geographical information systems. <i>International Journal of Geographical Information Science</i> , 1991, 5, 287-301.	2.2	501
3	A Measurement Theory for Time Geography. <i>Geographical Analysis</i> , 2005, 37, 17-45.	1.9	440
4	The hub network design problem. <i>Journal of Transport Geography</i> , 1994, 2, 31-40.	2.3	268
5	Data-driven geography. <i>Geo Journal</i> , 2015, 80, 449-461.	1.7	259
6	The impacts of COVID-19 pandemic on public transit demand in the United States. <i>PLoS ONE</i> , 2020, 15, e0242476.	1.1	193
7	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. <i>Geographical Analysis</i> , 1999, 31, 187-212.	1.9	169
8	THE DATA AVALANCHE IS HERE. SHOULDNT WE BE DIGGING?. <i>Journal of Regional Science</i> , 2010, 50, 181-201.	2.1	164
9	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. <i>Geographical Analysis</i> , 1999, 31, 1-26.	1.9	149
10	Place-Based versus People-Based Geographic Information Science. <i>Geography Compass</i> , 2007, 1, 503-535.	1.5	147
11	GIS Software for Measuring Space-Time Accessibility in Transportation Planning and Analysis. <i>Geoinformatica</i> , 2000, 4, 141-159.	2.0	126
12	Representation and Spatial Analysis in Geographic Information Systems. <i>Annals of the American Association of Geographers</i> , 2003, 93, 574-594.	3.0	125
13	Transportation network design for maximizing space-time accessibility. <i>Transportation Research Part B: Methodological</i> , 2015, 81, 555-576.	2.8	125
14	A Field-Based Theory for Time Geography. <i>Annals of the American Association of Geographers</i> , 2009, 99, 49-75.	3.0	124
15	Measuring Space-Time Accessibility Benefits within Transportation Networks: Basic Theory and Computational Procedures. <i>Geographical Analysis</i> , 1999, 31, 187-212.	1.9	119
16	Potential Contributions of Spatial Analysis to Geographic Information Systems for Transportation (GISAT). <i>Geographical Analysis</i> , 1999, 31, 373-399.	1.9	117
17	Necessary Space-Time Conditions for Human Interaction. <i>Environment and Planning B: Planning and Design</i> , 2005, 32, 381-401.	1.7	115
18	User-centred time geography for location-based services. <i>Geografiska Annaler, Series B: Human Geography</i> , 2004, 86, 245-265.	0.8	101

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19	The Social Interaction Potential of Metropolitan Regions: A Time-Geographic Measurement Approach Using Joint Accessibility. <i>Annals of the American Association of Geographers</i> , 2013, 103, 483-504.	3.0	98
20	Developing context-sensitive livability indicators for transportation planning: a measurement framework. <i>Journal of Transport Geography</i> , 2013, 26, 51-64.	2.3	83
21	Measuring segregation using patterns of daily travel behavior: A social interaction based model of exposure. <i>Journal of Transport Geography</i> , 2015, 49, 26-38.	2.3	83
22	Measuring the impacts of new public transit services on space-time accessibility: An analysis of transit system redesign and new bus rapid transit in Columbus, Ohio, USA. <i>Applied Geography</i> , 2018, 93, 47-63.	1.7	83
23	Transit Use, Physical Activity, and Body Mass Index Changes: Objective Measures Associated With Complete Street Light-Rail Construction. <i>American Journal of Public Health</i> , 2015, 105, 1468-1474.	1.5	80
24	Anchor uncertainty and space-time prisms on road networks. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1223-1248.	2.2	76
25	GIS and geometric representation in facility location problems. <i>International Journal of Geographical Information Science</i> , 1996, 10, 791-816.	2.2	68
26	U-Access: a web-based system for routing pedestrians of differing abilities. <i>Journal of Geographical Systems</i> , 2006, 8, 269-287.	1.9	68
27	Public transit generates new physical activity: Evidence from individual GPS and accelerometer data before and after light rail construction in a neighborhood of Salt Lake City, Utah, USA. <i>Health and Place</i> , 2015, 36, 8-17.	1.5	64
28	Time-space transformations of geographic space for exploring, analyzing and visualizing transportation systems. <i>Journal of Transport Geography</i> , 2007, 15, 2-17.	2.3	62
29	Towards an integrated science of movement: converging research on animal movement ecology and human mobility science. <i>International Journal of Geographical Information Science</i> , 2019, 33, 855-876.	2.2	62
30	Simulating visit probability distributions within planar space-time prisms. <i>International Journal of Geographical Information Science</i> , 2014, 28, 104-125.	2.2	56
31	Activities in Space and Time. <i>Handbooks in Transport</i> , 2004, , 647-660.	0.1	55
32	Solution strategies for the single facility minimax hub location problem. <i>Papers in Regional Science</i> , 1991, 70, 367-380.	1.0	53
33	Beyond sharing: cultivating cooperative transportation systems through geographic information science. <i>Journal of Transport Geography</i> , 2013, 31, 296-308.	2.3	51
34	Physical activity mediates the relationship between perceived crime safety and obesity. <i>Preventive Medicine</i> , 2014, 66, 140-144.	1.6	46
35	Estimating the most likely space-time paths, dwell times and path uncertainties from vehicle trajectory data: A time geographic method. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 66, 176-194.	3.9	46
36	Assessing built environment walkability using activity-space summary measures. <i>Journal of Transport and Land Use</i> , 2016, 9, 187-207.	0.7	43

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37	Detecting and Analyzing Mobility Hotspots using Surface Networks. Transactions in GIS, 2014, 18, 911-935.	1.0	41
38	Place-Based Versus People-Based Accessibility. , 2005, , 63-89.		38
39	Analyzing collective accessibility using average space-time prisms. Transportation Research, Part D: Transport and Environment, 2019, 69, 250-264.	3.2	37
40	Accessibility planning in American metropolitan areas: Are we there yet?. Urban Studies, 2019, 56, 167-192.	2.2	35
41	A Complete Street Intervention for Walking to Transit, Nontransit Walking, and Bicycling: A Quasi-Experimental Demonstration of Increased Use. Journal of Physical Activity and Health, 2016, 13, 1210-1219.	1.0	34
42	Do air quality alerts reduce traffic? An analysis of traffic data from the Salt Lake City metropolitan area, Utah, USA. Transport Policy, 2013, 30, 173-185.	3.4	30
43	Robust accessibility: Measuring accessibility based on travelers' heterogeneous strategies for managing travel time uncertainty. Journal of Transport Geography, 2020, 86, 102747.	2.3	30
44	Geographic Information Systems for Transportation in the 21st Century. Geography Compass, 2015, 9, 180-189.	1.5	29
45	Exact Computational Methods for Calculating Distances Between Objects in a Cartographic Database. Cartography and Geographic Information Science, 1996, 23, 180-195.	1.1	28
46	Exploring traffic flow databases using space-time plots and data cubes. Transportation, 2012, 39, 215-234.	2.1	28
47	Consumer search and retail analysis. Journal of Retailing, 1993, 69, 160-192.	4.0	27
48	Decentralized and coordinate-free computation of critical points and surface networks in a discretized scalar field. International Journal of Geographical Information Science, 2014, 28, 1-21.	2.2	27
49	Dealing with Timing and Synchronization in Opportunities for Joint Activity Participation. å...-å...±æ »åŠ"åä,Žæœªä¼šä,å©žæ-¶æ€Šå Geographical Analysis, 2010, 42, 245-266.	1.9	26
50	Representing and Visualizing Physical, Virtual and Hybrid Information Spaces. Advances in Spatial Science, 2000, , 133-146.	0.3	25
51	A GIS-based decision support system for analysis of route choice in congested urban road networks. Journal of Geographical Systems, 2001, 3, 3-24.	1.9	24
52	A Synthesis of Some Market Area Delimitation Models. Growth and Change, 1989, 20, 14-33.	1.3	23
53	Modeling Visit Probabilities within Networkâ€Time Prisms Using <sc>M</sc>arkov Techniques. Geographical Analysis, 2016, 48, 18-42.	1.9	23
54	Big Data for Healthy Cities: Using Location-Aware Technologies, Open Data and 3D Urban Models to Design Healthier Built Environments. Built Environment, 2016, 42, 441-456.	0.4	23

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55	Assessing public transit performance using real-time data: spatiotemporal patterns of bus operation delays in Columbus, Ohio, USA. <i>International Journal of Geographical Information Science</i> , 2020, 34, 367-392.	2.2	22
56	Analytical methods for error propagation in planar space-time prisms. <i>Journal of Geographical Systems</i> , 2011, 13, 327-354.	1.9	21
57	Analyzing walking route choice through built environments using random forests and discrete choice techniques. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2017, 44, 1145-1167.	1.0	21
58	Geographic representation in spatial analysis. <i>Journal of Geographical Systems</i> , 2000, 2, 55-60.	1.9	20
59	Adding maps (GPS) to accelerometry data to improve study participants' recall of physical activity: a methodological advance in physical activity research. <i>British Journal of Sports Medicine</i> , 2014, 48, 1054-1058.	3.1	19
60	Changes in bicycling over time associated with a new bike lane: Relations with kilocalories energy expenditure and body mass index. <i>Journal of Transport and Health</i> , 2016, 3, 357-365.	1.1	19
61	Environmental, behavioral, and psychological predictors of transit ridership: Evidence from a community intervention. <i>Journal of Environmental Psychology</i> , 2016, 46, 188-196.	2.3	19
62	Geographic regions for assessing built environmental correlates with walking trips: A comparison using different metrics and model designs. <i>Health and Place</i> , 2017, 45, 1-9.	1.5	19
63	Accessibility with time and resource constraints: Computing hyper-prisms for sustainable transportation planning. <i>Computers, Environment and Urban Systems</i> , 2019, 73, 171-183.	3.3	19
64	Lower Volumes, Higher Speeds: Changes to Crash Type, Timing, and Severity on Urban Roads from COVID-19 Stay-at-Home Policies. <i>Transportation Research Record</i> , 2023, 2677, 15-27.	1.0	19
65	COVID-19 exacerbates unequal food access. <i>Applied Geography</i> , 2021, 134, 102517.	1.7	19
66	Kinetic prisms: incorporating acceleration limits into space-time prisms. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2164-2194.	2.2	18
67	Opioid Treatment Deserts: Concept development and application in a US Midwestern urban county. <i>PLoS ONE</i> , 2021, 16, e0250324.	1.1	18
68	Modeling strategies for the spatial search problem. <i>Papers in Regional Science</i> , 1993, 72, 63-85.	1.0	17
69	Evaluating the attractiveness of a new light rail extension: Testing simple change and displacement change hypotheses. <i>Transport Policy</i> , 2016, 45, 15-23.	3.4	17
70	Green accessibility: Estimating the environmental costs of network-time prisms for sustainable transportation planning. <i>Journal of Transport Geography</i> , 2017, 64, 109-119.	2.3	17
71	Geographic information system design for network equilibrium-based travel demand models. <i>Transportation Research Part C: Emerging Technologies</i> , 1996, 4, 373-389.	3.9	16
72	311 service requests as indicators of neighborhood distress and opioid use disorder. <i>Scientific Reports</i> , 2020, 10, 19579.	1.6	15

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73	Who Counts? Gender, Gatekeeping, and Quantitative Human Geography. <i>Professional Geographer</i> , 2021, 73, 48-61.	1.0	15
74	Geographic information science II: Mesogeography. <i>Progress in Human Geography</i> , 2018, 42, 600-609.	3.3	12
75	Measuring the Geometric and Semantic Similarity of Space-Time Prisms Using Temporal Signatures. <i>Annals of the American Association of Geographers</i> , 2019, 109, 730-753.	1.5	12
76	What Is Essential Travel? Socioeconomic Differences in Travel Demand in Columbus, Ohio, during the COVID-19 Lockdown. <i>Annals of the American Association of Geographers</i> , 2022, 112, 1023-1046.	1.5	12
77	Understanding the role of urban social and physical environment in opioid overdose events using found geospatial data. <i>Health and Place</i> , 2022, 75, 102792.	1.5	12
78	Geographic Data Mining and Knowledge Discovery An Overview. <i>Chapman &amp; Hall/CRC Data Mining and Knowledge Discovery Series</i> , 2009, , 1-26.	0.2	11
79	Human Wayfinding, Environment-Behavior Relationships, and Artificial Intelligence. <i>Journal of Planning Literature</i> , 1992, 7, 139-150.	2.2	10
80	Spatial search and spatial competition: a probability analysis of basic results from the spatially-restricted theory. <i>Annals of Regional Science</i> , 1995, 29, 67-89.	1.0	10
81	Geographic information science I. <i>Progress in Human Geography</i> , 2017, 41, 489-500.	3.3	10
82	The Role of Distance-Dependent Versus Localized Amenities in Polarizing Urban Spatial Structure: A Spatio-Temporal Analysis of Residential Location Value in Columbus, Ohio, 2000-2015. <i>Geographical Analysis</i> , 2021, 53, 283-306.	1.9	10
83	Time Geography. , 2008, , 1151-1156.		10
84	Geographic information science III: GIScience, fast and slow - Why faster geographic information is not always smarter. <i>Progress in Human Geography</i> , 2020, 44, 129-138.	3.3	9
85	Network analysis of intra-hospital transfers and hospital onset clostridium difficile infection. <i>Health Information and Libraries Journal</i> , 2020, 37, 26-34.	1.3	9
86	Place-based versus People-based Accessibility. , 2005, , 63-89.		9
87	Evidence of Increased Vehicle Speeding in Ohio's Major Cities during the COVID-19 Pandemic. <i>Findings</i> , 0, , .	0.0	8
88	Realizable accessibility: evaluating the reliability of public transit accessibility using high-resolution real-time data. <i>Journal of Geographical Systems</i> , 2023, 25, 429-451.	1.9	8
89	PRICING POLICY REACTIONS TO AGGLOMERATION IN A MARKET WITH SPATIAL SEARCH*. <i>Journal of Regional Science</i> , 1996, 36, 393-415.	2.1	7
90	Kinetic space-time prisms. , 2011, , .		7

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91	From the Guest Editors: Mobility, Communication, and Urban Space. <i>Journal of Urban Technology</i> , 2014, 21, 1-7.	2.5	7
92	Street use and design: daily rhythms on four streets that differ in rated walkability. <i>Journal of Urban Design</i> , 2018, 23, 603-619.	0.6	7
93	Measuring risk of missing transfers in public transit systems using high-resolution schedule and real-time bus location data. <i>Urban Studies</i> , 2021, 58, 3140-3156.	2.2	7
94	Activity-Based Analysis. , 2021, , 187-207.		7
95	Societies and cities in the age of instant access. <i>Geospatial Technology and the Role of Location in Science</i> , 2007, , 3-28.	0.2	6
96	Activity-Based Analysis. , 2014, , 705-724.		6
97	GIS and geometric representation in facility location problems. <i>International Journal of Geographical Information Science</i> , 1996, 10, 791-816.	2.2	6
98	Impacts of bus rapid transit (BRT) on residential property values: A comparative analysis of 11 US BRT systems. <i>Journal of Transport Geography</i> , 2022, 100, 103324.	2.3	6
99	Properties and Estimation of a Production-Constrained Alonso Model. <i>Environment and Planning A</i> , 1991, 23, 127-138.	2.1	5
100	Measuring Space-Time Prism Similarity Through Temporal Profile Curves. <i>Lecture Notes in Geoinformation and Cartography</i> , 2016, , 51-66.	0.5	4
101	Measuring the structural similarity of network time prisms using temporal signatures with graph indices. <i>Transactions in GIS</i> , 2020, 24, 3-26.	1.0	4
102	Modelling Accessibility Using Space-Time Prism Concepts within Geographical Information Systems. , 2006, , 157-179.		4
103	Exploratory Visualization of Collective Mobile Objects Data Using Temporal Granularity and Spatial Similarity. , 2014, , 127-154.		3
104	Discovering geographic knowledge in data rich environments. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , 2000, 1, 105-107.	3.2	2
105	Does real-time transit information reduce waiting time? An empirical analysis. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 141, 167-179.	2.0	2
106	Cultivating Urban Big Data. <i>Urban Book Series</i> , 2021, , 547-565.	0.3	2
107	Movement analytics for sustainable mobility. <i>Journal of Spatial Information Science</i> , 2020, , .	1.1	2
108	GIS and Geocomputation, <i>Innovations in GIS 7</i> , edited by Peter Atkinson and David Martin. <i>Geographical Analysis</i> , 2002, 34, 286-288.	1.9	1

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109	Special Issue on New Mobility Technologies and Cities. Journal of Planning Literature, 2021, 36, 3-4.	2.2	1
110	GIS-based emergency response planning in a Mexico-U.S. border community. Applied Geographic Studies, 1998, 2, 111-130.	0.2	1
111	Mobile Objects Databases. , 2008, , 670-671.		1
112	Spatial Data Analytics. , 2017, , 149-157.		1
113	Time Geography. , 2017, , 2235-2242.		1
114	How does street space influence crash frequency? An analysis using segmented street view imagery. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832210909.	1.0	1
115	A formal procedure for generating regional product accounts for U.S. regions. Socio-Economic Planning Sciences, 1989, 23, 271-281.	2.5	0
116	Reviews: Spatial Models and GIS: New Potential and New Models, GISDATA 7, the Internet: An Ethnographic Approach, Valuing the Built Environment: GIS and House Price Analysis, City Region 2020: Integrated Planning for a Sustainable Environment, the Urban Moment: Cosmopolitan Essays on the Late-20th-Century City, the Sustainable City: Urban Regeneration and Sustainability, Introduction to Planning Practice, Innovations in GIS 7: GIS and Geocomputation, Handbook of Environmental and Resource Economics, Transpo. Environment and Planning B: Planning and Design, 2001, 28, 623-636.	1.7	0
117	Beyond the Boundary: New Insights from Inside the Space-Time Prism. , 2015, , 189-209.		0
118	Location, Absolute and Relative. , 2015, , 284-286.		0
119	Time Geography. , 2016, , 1-8.		0
120	Activity-Based Analysis. , 2019, , 1-21.		0
121	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
122	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
123	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0
124	The impacts of COVID-19 pandemic on public transit demand in the United States. , 2020, 15, e0242476.		0