

SEN WANG

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RESEARCH AREAS & INTERESTS

Airport and Airlines Economics, Transportation Geography, Human Mobility, Spatial Analysis

APPOINTMENT

The Ohio State University

Assistant Professor at Department of Geography 08/2024 – Present

Transportation Research Board, National Academies of Sciences, Engineering, and Medicine

Standing Committee Member of AV012 Aviation Market Economics and Analysis 08/2025 – Present

EDUCATION

Purdue University

Ph.D. in Technology West Lafayette, Indiana, USA 08/2020 – 05/2024
Graduate Certificate in Geospatial Information Science 09/2022 – 12/2022
Master of Science in Aviation and Aerospace Management 01/2019 – 05/2020

Florida Institute of Technology

Bachelor of Science in Aviation Management (*Magna Cum Laude*) Melbourne, Florida, USA 08/2016 – 12/2018

Kunming University Science of Technology

Bachelor of Engineering in Traffic Transportation Kunming, Yunnan, China 08/2014 – 06/2019

PEER-REVIEWED PUBLICATIONS

*: Corresponding author

- Wang, S.***, Gao, Y., Walters, E. (2026). The Breeze Effect: Evidence on Demand Stimulation and Fare Impacts of An Emerging Low-Cost Carrier. *Journal of the Air Transport Research Society*, 100131
- Wang, S.***, Karanki, F., & Gao, Y. (2026). Spatial Spillovers in U.S. Airport Non-Aeronautical Revenue Performance. *Journal of Transport Geography*, 130, 104452.
- Liu, J.Y., **Wang, S.**, Zhi, D., & Gao, Y., (2025). Do Aging Aircraft Run Late? Evidence from the United States Domestic Flights. *Journal of the Air Transport Research Society*, 100090.
- Wang, S.***, Dou, Z., Liu, J., & Gao, Y. (2025). The Fate of Akron-Canton Regional Airport Following the Dehubbing of Cleveland Hopkins International Airport and Exodus of Southwest Airlines. *Case Studies on Transport Policy*, 21, 101497.
- Wang, S.***, Kong, N. N., Bilotkach, V., Karanki, F., & Gao, Y. (2025). What Drives the Dynamics of Airport Parking Revenues? A panel study of US airports. *Research in Transportation Business & Management*, 61, 101390.
- Liu, J., **Wang, S.**, Dou, Z., Oluwumi, T. O., & Gao, Y. (2025). Fostering active learning through AI-integrated platforms: Student perceptions from a large enrollment professional education course. *Collegiate Aviation Review International*, 43(2), 69–99.

- Wang, S.**, Kong, N. & Gao, Y. (2024). Use Mobile Location Data to Infer Airport Catchment Areas and Calibrate Huff Gravity Model in the New York Metropolitan Area. *Journal of Transport Geography*, 114, 103790.
- Wang, S.**, Zheng, Y., & Gao, Y. (2023). Airport Ground Access Choice Between Transportation Network Companies and Parking: A Case Study of Hartsfield-Jackson Atlanta International Airport. *International Journal of Aviation, Aeronautics, and Aerospace*, 10(4).
- Wang, S.** & Gao, Y. (2021). A Literature Review and Citation Analyses of Air Travel Demand Studies Published Between 2010 and 2020. *Journal of Air Transport Management*, 97, 102135,
- Gao, Y., Hao, Y., **Wang, S.**, & Wu, H. (2021). The Dynamics Between Voluntary Safety Reporting and Commercial Aviation Accidents. *Safety Science*, 141,105351.
- Gao, Y., Wei-Kocsis, J., Kong, N. N., **Wang, S.**, Duncan, G., Skwarek, D., & Anstine, L. (2023). Toolkit for Establishing Airport Catchment Areas. *ACRP Web-Only Document*, (ACRP Project 03-62).
- Wang, S.***, & Gao, Y. (2021). Can COVID-19 data be used to guide airline stock trading during the pandemic? *24th Air Transport Research Society Conference 2021*.

MANUSCRIPTS UNDER REVIEW/REVISION *: Corresponding author

- Wang, S.***, Gao, Y., Birolini, S., Chen, Z. (2026). Mapping Household Income Effects on Air Travel Participation Across U.S. Metropolitan Areas. Submitted to the *Journal of Transport Geography* (Under review).
- Zhang, Q., **Wang, S.*** (2026). Integrating Mobile Location Data into Vertiport Optimization for UAM Airport Shuttle Service: A Case Study of the Chicago Multi-Airport Region. *Journal of Air Transport Management* (Under revision).
- Gao, Y., Dou, Z., **Wang, S.**, Liu, J. (2026) What Causes the Discrepancies Between Scheduled and Actual Flight Block Times? Evidence from U.S. Domestic Airline Operations. Submitted to the *Transportation Research Part A: Policy and Practice* (Under review).
- Wang, S.***, Gao, Y., Johnson, L., Walters, E. (2026). The Geography of Airport Selection by Emerging Airlines in the United States: Empirical evidence from Breeze Airways. Submitted to the *Transportation Research Interdisciplinary Perspectives* (Under review).

SELECTED CONFERENCE PRESENTATIONS

- 2026 Zhang, Q., Neupane, S., & **Wang, S.** (2026). Mapping Australia's Aviation Access Deserts: Mobility-Derived Leakage and Connectivity Gaps. Selected for the presentation at the 29th ATRS World Conference (July 2, Beijing, China)
- Guo, W., **Wang, S.**, & Wong, S. (2026). Geographic Accessibility and the Spatial Dynamics of Visitation to Nursing Homes: Revealed Mobility Insights from the Columbus Metropolitan Area, Ohio. Presented at the *2026 AAG Annual Meeting* (March 18, San Francisco, CA)
- Wang, S.** (2026). Use of Emerging Data Sources for Forecasts. Invited to speak at the *Advancing Aviation Forecasting with Emerging Data and Analytics* workshop, *105th Transportation Research Board Annual Meeting* (January 15, 2026, Washington, D.C.)
- Zhang, Q., **Wang, S.** (2026). Vertiport Placement Optimization for Urban Air Mobility Shuttles Using Mobile Location Data. Presented at the *105th Transportation Research Board Annual Meeting* (January 12, 2026, Washington, D.C.)
- Wang, S.**, Chen, Z., & Gao, Y. (2026) Modeling Localized Air Travel Demand in a Multi-Airport Region Using Mobile Location Data: A case study of New York City Metropolitan Area. Presented at the *105th Transportation Research Board Annual Meeting* (January 12, 2026, Washington, D.C.)
- Wang, S.**, Zhang, C., & Gao, Y. (2026). Modeling the Influence of Exchange Rates on Air Travel Demand from the United States to Australia. Presented at the *105th Transportation Research*

Board Annual Meeting (January 12, 2026, Washington, D.C.)

- 2025 Alapat, N., **Wang, S.**, Keller, J. (2025) The Impact of Preflight Digital Media Consumption on Collegiate Aviators' Cognitive Performance. Presented at the *78th UAA 78th Collegiate Aviation Education Conference* (September 30–October 3, 2025, Costa Mesa, CA)
Wang, S., Karanki, F., & Gao, Y. (2025). Spatial Competition in Airport Non-Aeronautical Revenue Performance. Presented at the *28th Air Transport Research Society Conference 2025*. (July 1–4, 2024, Hong Kong, China)
Wang, S., Birolini, S. (2025). Enhancing Airport Demand Forecasting through Artificial Intelligence and Big Data Analytics. Presented at the *66th International Meeting of Transportation Research Forum* (April 10–11, 2025, St. Charles, MO)
Wang, S., Karanki, F., Dou, Z., & Gao, Y. (2025) The Economic Roles of Low-Cost Carriers and Ultra-Low-Cost Carriers in Non-Aeronautical Revenue Dynamics. Presented at the *104th Transportation Research Board Annual Meeting* (January 7–11, 2025, Washington, D.C.)
- 2024 **Wang, S.**, Dou, Z., Liu, J.Y., & Gao, Y. (2024). The Ripple Effect of Airport Dehubbing: A case study of Cleveland Hopkins International Airport and Akron Canton Airport. Presented at the *27th Air Transport Research Society Conference 2024*. (July 1–4, 2024, Lisbon, Portugal)
Wang, S., Dou, Z., & Gao, Y. (2024). Investigating Temporal Relationships Among US Commercial Airports with Similar Commercial Flight Delay Patterns. Presented at the *27th Air Transport Research Society Conference 2024*. (July 1–4, 2024, Lisbon, Portugal)
Wang, S., Gao, Y. (2024). Determinants of Airport Parking Revenues: An Econometric Analysis. Presented at the *103rd Transportation Research Board Annual Meeting* (January 7–11, 2024, Washington, D.C.)
- 2023 **Wang, S.**, Dou, Z., & Gao, Y. (2023). Riding the Wave of the Future: Forecasting Urban Air Mobility Demand with Mobile Location Data. Presented at the *2023 UAA Collegiate Aviation Education Conference*. (September 29, 2023, St. Petersburg, FL, USA)
Wang, S., Gao, Y. (2023). How Does Mobile Location of Airport Passengers Tell and Predict Airport Catchment Areas: A Case Study of the New York Metropolitan Multi Airport Region. Presented at the *11th National Aviation System Planning Symposium* (May 16, 2023, Irvine, CA)
Wang, S., Zheng, Y., & Gao, Y. (2023). Airport Access Choice Equilibrium Between Uber Rideshare and Driving-Parking: A Case Study of Hartsfield-Jackson Atlanta International Airport. Presented at the *102nd Transportation Research Board Annual Meeting* (January 8-12, 2023, Washington, D.C.)

FUNDED PROJECTS

Application of Large Language Models in Enhancing Airport Passenger Experience

Funding agency: *Airport Cooperative Research Program, Transportation Research Board, National Academy of Science*

Amount: \$75,000

Role: Principal Investigator

Period: 10/2025 - 06/2026

Status: Officially awarded but unable to accept due to the university's administrative restrictions on the terms of the award

Curriculum Vitae - Sen Wang

Advancing Global Urban Mobility: A Global Research Partnership for AAM Network Planning

Funding agency: *Global Initiatives Dean's Innovation Fund, The Ohio State University*

Amount: \$14,600

Role: Principal Investigator

Period: 01/2025 - 11/2026

Status: Ongoing

Airport Cooperative Research Project 11-04: Determinants of Airport Parking Revenues –
An Econometric Analysis

Funding agency: *Airport Cooperative Research Program, Transportation Research Board, National Academy of Science*

Amount: \$12,000

Role: Principal Investigator

Period: 09/2022 - 07/2023

Status: Completed

Airport Cooperative Research Project 03-62: A Toolkit for Establishing Airport Catchment Areas

Funding agency: *Airport Cooperative Research Program, Transportation Research Board, National Academy of Science*

Amount: \$300,000

Role: Lead research assistant

Period: 07/2021 - 05/2022

Status: Completed

AWARDS

ASC Career Success Grant -- Career Development in the Curriculum (\$3,000)	03/2026
<i>Source: The Ohio State University</i>	
Larry A. Brown Faculty Fellowship Award (\$10,000)	12/2024
<i>Source: The Ohio State University</i>	
Second Place, University Design Competition (\$500)	08/2023
<i>Source: Airport Cooperative Research Program, Transportation Research Board</i>	
11th National Aviation System Planning Symposium Scholarship (\$500)	05/2023
<i>Source: Airport Cooperative Research Program, Transportation Research Board</i>	
Best Poster for Map Use/Information Graphics	10/2022
<i>Source: 2022 Applied Geography Conference</i>	
Graduate Research Award (\$12,000)	08/2022
<i>Source: Airport Cooperative Research Program, Transportation Research Board</i>	

SERVICES

Panel member of Airport Cooperative Research Program (<i>Insight Event 11-08</i>)	09/2025 – Present
Panel member of Airport Cooperative Research Program (<i>Synthesis 03-20</i>)	04/2025 – Present
Senate representative in the College of Arts and Sciences	08/2025 – Present
Senior academic advisor of Advanced Air Mobility Institute	07/2024 – Present
Journal/Conference paper reviewer of <i>Transportation Research Record: Journal of the Transportation Research Board, Humanities and Social Sciences Communications, SN Business & Economics, Regional Science Policy & Practice, Journal of the Air Transport Research Society, Transportation Research Part A: Policy and Practice, Socio-Economic Planning Sciences, Safety Science, Research in Transportation Business & Management, Journal of Revenue and Pricing Management, Journal of Air Transport</i>	

Curriculum Vitae - Sen Wang

*Management, Transportation Research Interdisciplinary Perspectives,, Collegiate Aviation Review
International, Scientific Reports, Environmental Justice* 01/2021 – Present

PROFESSIONAL AFFILIATION

Certified Member, American Association of Airport Executives	10/2023 – Present
Member, American Association of Geographers	10/2025 – Present
Member, University Aviation Association	09/2021 – Present
Member, Air Transport Research Society	06/2022 – Present

LICENSE

Part 107 Remote Pilot certified by Federal Aviation Administration	09/2023
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SKILLS & LANGUAGES

Programming Languages: R, Python
Software: ArcGIS, Stata, Tableau, AutoCAD
Languages: English, Mandarin