

Yi GAO, Ph.D.

School of Aeronautics, College of Aeronautics and Engineering, Kent State University

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Education

- Doctor of Philosophy of (PhD), 2010
 - Technology
 - Purdue University, West Lafayette, Indiana, USA
- Master of Science (MSc), 2006
 - Transportation Planning and Management
 - Civil Aviation University of China, Tianjin, China
- Bachelor of Engineering (BE), 2003
 - Traffic and Transportation
 - Civil Aviation University of China, Tianjin, China

Employment History

- School of Aeronautics, College of Aeronautics and Engineering, Kent State University
 - Director & Professor January 2026 – Present
- School of Aviation and Transportation Technology, Purdue University
 - Associate Professor (with tenure) August 2022 – December 2025
 - Associate Professor (w/o tenure) August 2018 – May 2022
- Department of Aviation, Swinburne University of Technology (Australia)
 - Senior Lecturer January 2016 – July 2018
 - Lecturer January 2011 – December 2015

Key Academic & Professional Appointments

- Kent State University
 - Director, School of Aeronautics, College of Aeronautics and Engineering, 2026 – Present
- Purdue University – USA
 - University Senator (Elected), 2024 – 2025
 - Chair, Graduate Education Committee (SATT), 2021 – 2025
- University Aviation Association – USA
 - Educator Trustee (Elected), 2024 – 2025
 - Chair, Publication Committee, 2021 – 2023
- Transportation Research Board – USA
 - Standing Committee on Airport Landside Operations & Planning (AV013), 2025 – 2028
 - Standing Committee on Airport Terminals & Ground Access (AV050), 2022 – 2025
- Swinburne University of Technology – Australia
 - Aviation Course Director, 2015 – 2018

Awards

- President's Award, University Aviation Association, 2022
- Teaching Leadership Award, Purdue University, 2022
- Bilsland Dissertation Fellow, Purdue University, 2009 - 2010
- Frederick N. Andrews Fellow, Purdue University, 2006 -2009

Licenses, Registrations, Certifications

- IATA Airline Revenue Management Certificate, 2020
- Private Pilot Certificate, Federal Aviation Administration, 2009

SECTION I: DISCOVERY & RESEARCH**Referred Journal Publications**

- Liu, J., Kong, N. N., & **Gao, Y.** (2026). Assessing spatial development footprint of urban areas surrounding new airport terminal infrastructure. *Journal of Air Transport Management*, 132, 102957. <https://doi.org/10.1016/j.jairtraman.2025.102957>
- Gao, Y.**, & Liu, J. (2026). Frequent flyer programs in academic studies: A literature review of research progress since 2000. *Journal of Air Transport Management*, 131, 102920. <https://doi.org/10.1016/j.jairtraman.2025.102920>
- Wang, S., Karanki, F., & **Gao, Y.** (2026). Spatial spillovers in U.S. airport non-aeronautical revenue performance. *Journal of Transport Geography*, 104452, <https://doi.org/10.1016/j.jtrangeo.2025.104452>
- Liu, J., Wang, S., Dou, Z., & **Gao, Y.** (2025). Do Aging Aircraft Run Late? Evidence from the United States Domestic Flights. *Journal of the Air Transport Research Society*, 100090. <https://doi.org/10.1016/j.jatrs.2025.100090>
- 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*, 101497. <https://doi.org/10.1016/j.cstp.2025.101497>
- Wang, S., Kong, N. N., Bilotkach, V., Karanki, F., & **Gao, Y.** (2025). What drives the dynamics of airport parking revenues? A panel study of U.S. airports. *Research in Transportation Business & Management*, 61, 101390. <https://doi.org/10.1016/j.rtbm.2025.101390>
- 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. Retrieved from <https://ojs.library.okstate.edu/osu/index.php/CARI/article/view/10322/9131>
- Chrysogelos, N., Bakun, L., Nguyen, A., Baerson, D., Lu, C.-T., & **Gao, Y.** (2025). Bridging the gap: Evaluating skill alignment between collegiate aviation management programs and industry needs. *Collegiate Aviation Review International*, 43(1), 36–64. Retrieved from <https://ojs.library.okstate.edu/osu/index.php/CARI/article/view/10106/9000>
- Dou, Z., Bilotkach, V., & **Gao, Y.** (2024). Flight passes do stimulate consumers' spending: A case study of China Eastern Airlines' "Wild Your Weekends." *Journal of Air Transport Management*, 119. <https://doi.org/10.1016/j.jairtraman.2024.102635>
- Dou, Z., Keller, J., & **Gao, Y.** (2024). Navigating Massive Text Reports: An Automated Approach to Aviation Safety Reporting System Safety Event Detection. *Transportation Research Record*, 0(0). <https://doi.org/10.1177/03611981241252796>
- Karanki, F., Volodymyr, B., **Gao, Y.**, & Lu, C. T. (2024). The economic impact of E-commerce on the U.S. airports: Cost savings and productivity growth. *Journal of Air Transport Management*, 118, 102598. <https://doi.org/10.1016/j.jairtraman.2024.102598>
- Liu, J., Beck, C. S., & **Gao, Y.** (2024). Can you judge a book by its cover? An analysis of travelers' perceptions of airline logos and airlines' business models. *Journal of Air Transport Management*, 115, 102543. <https://doi.org/10.1016/j.jairtraman.2024.102543>
- 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. <https://doi.org/10.1016/j.jtrangeo.2023.103790>
- 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). DOI: <https://doi.org/10.58940/2374-6793.1857>
- Wu, S., & **Gao, Y.** (2023). Machine Learning Approach to Analyze the Sentiment of Airline Passengers' Tweets. *Transportation Research Record*, 2678(2), 48-56. <https://doi.org/10.1177/03611981231172948>
- Gao, Y.** (2022). Benchmarking the recovery of air travel demands for US airports during the COVID-19 Pandemic. *Transportation Research Interdisciplinary Perspectives*, 13, 100570. <https://doi.org/10.1016/j.trip.2022.100570>
- 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. <https://doi.org/10.1016/j.jairtraman.2021.102135>

- Gao, Y.,** Hao, Y., Wang, S., & Wu, H. (2021). The dynamics between voluntary safety reporting and commercial aviation accidents. *Safety Science*, 141, 105351, <https://doi.org/10.1016/j.ssci.2021.105351>
- Gao, Y.** (2021). What is the busiest time at an airport? Clustering U.S. hub airports based on passenger movements. *Journal of Transport Geography*, 90, 102931. <https://doi.org/10.1016/j.jtrangeo.2020.102931>
- Gao Y.,** Sobieralski J. B. (2021). Spatial and operational factors behind passenger yield of U.S. nonhub primary airports. *Journal of Air Transport Management*, 90, 101967. <https://doi.org/10.1016/j.jairtraman.2020.101967>
- Gao, Y.** (2020). Estimating the sensitivity of small airport catchments to competition from larger airports: A case study in Indiana. *Journal of Transport Geography*, 82, 102628. <https://doi.org/10.1016/j.jtrangeo.2019.102628>
- Gao, Y.** (2020). A conceptual framework for valuating airline frequent flyer program miles. *International Journal of Aviation, Aeronautics, and Aerospace*, 7(1). Retrieved from <https://commons.erau.edu/ijaaa/vol7/iss1/11>
- Gao, Y.,** & Choy, N. W. (2019). Brand awareness, purchase intention and price premium of international airlines operating between Australia and the United Kingdom. *International Journal of Aviation, Aeronautics, and Aerospace*, 6(3). Retrieved from <https://doi.org/10.15394/ijaaa.2019.1345>
- John H. Mott, Sarah M. Hubbard, Chien-Tsung Lu, Joseph B. Sobieralski, **Yi Gao**, Michael S. Nolan, Bhavana Kotla. (2019). Competency-based education: A framework for aviation management programs. *Collegiate Aviation Review International*, 37 (1), Retrieved from <http://dx.doi.org/10.22488/okstate.19.100211>
- Gao, Y.,** Carrigg, M., Lewinski, R., Polderman, D., & Tkalecivic, P. (2018). The perceived value of frequent flyer program benefits among Australian travelers. *International Journal of Aviation, Aeronautics, and Aerospace*, 5(3). Retrieved from <https://doi.org/10.15394/ijaaa.2018.1249>
- Gao, Y** & Rajendran, N. (2017) "Safety Climate of Ab-Initio Flying Training Organizations: The Case of an Australian Tertiary (Collegiate) Aviation Program," *Journal of Aviation Technology and Engineering*: Vol. 7: Iss. 1, Article 6. <https://doi.org/10.7771/2159-6670.1162>
- Gao, Y.,** & Kong, S. (2016). Personality types of pilot students: A study of an Australian collegiate aviation program. *International Journal of Aviation, Aeronautics, and Aerospace*, 3(3). <http://dx.doi.org/10.15394/ijaaa.2016.1130>
- Gao, Y.,** Bruce, P. J., & Rajendran, N. (2015). Safety climate of a commercial airline: A cross-sectional comparison of four occupational groups, *Journal of Air Transport Management*, 47, 162-171, <http://dx.doi.org/10.1016/j.jairtraman.2015.05.010>.
- Gao, Y.,** Koo, T. T.R. (2014). Flying Australia–Europe via China: A qualitative analysis of the factors affecting travelers' choice of Chinese carriers using online comments data. *Journal of Air Transport Management*, 39, 23-29, <http://dx.doi.org/10.1016/j.jairtraman.2014.03.006>.
- Chandra, S., Chitgopeker, C. K., Crawford, B., Dwyer, J., and **Gao, Y.** (2014) Establishing a Benchmark of Fuel Efficiency for Commercial Airline Operations, *Journal of Aviation Technology and Engineering*: 4 (1), <http://dx.doi.org/10.7771/2159-6670.1097>
- Gao, Y.,** Bruce, P. J., Newman, D. G., Zhang, C. B. (2013). Safety climate of commercial pilots: The effect of pilot ranks and employment experiences. *Journal of Air Transport Management*, 30, 17-24.
- Gao, Y.,** Au, K. T. S., Kwon, H. J., & Leong, E. W. (2013). Learning styles of Australian aviation students: An assessment of the impact of culture. *Collegiate Aviation Review*, 31(1), 17-26. <https://doi.org/10.22488/okstate.18.100435>
- Fanjoy, R., & **Gao, Y.** (2011). Learning styles of Chinese aviation students. *International Journal of Applied Aviation Studies*, 11(1), 57-66.
- Fanjoy, R., & **Gao, Y.** (2007). Collegiate aviation in China: Opportunities and challenges. *The Journal of Aviation/Aerospace Education & Research*, 17(1), 11-18.
- Gao, Y.,** & Nie, R. (2005). The analysis of single airport holding problem with the dynamic sorting algorithm. *Journal of Civil Aviation University of China*, 23(1), 19-23.

Peer-Reviewed Conference Proceedings, Presentations & Other Publications

- Gao, Y.** & Liu, J. (2025). Adopting AI-Integrated Online Learning Platforms in Collegiate Aviation Education. Workshop presented on the 2025 UAA Annual Collegiate Aviation Conference & Expo. Costa Mesa, CA.
- Gao, Y.** (2025). Robust Modeling of Discrepancies between Scheduled and Actual Flight Block Times. Paper presented on the Transportation Research Symposium (TRS). Rotterdam, The Netherlands

- Wang, S., Karanki, F., Dou, Z., & **Gao, Y.** (2025). The Economic Role of Low-Cost Carriers and Ultra-Low-Cost Carriers in Non-Aeronautical Revenue Dynamics. Paper presented on the 2025 *Transportation Research Board (TRB) Annual Meeting*. Washington, DC.
- Gao, Y.** (2024). Cooperating with Airports at the Loyalty Level as Next Frontier in Revenue Generation. Paper presented on the *2024 Loyalty & Awards Conference*. Bangkok, Thailand.
- Liu, J., Kong, N., & **Gao, Y.** (2024). The Role of Airport Expansions in Urban Growth: The Impact Of New Terminals on Local Land Use. Poster presented on the *2024 AGX/SWAAG Joint Annual Conference*, San Marcos, TX.
- Dou, Z, Wang, S. & **Gao, Y.** (2024). Investigating Temporal Relationships Among US Commercial Airports with Similar Commercial Flight Delay Patterns. Paper presented on the *27th Air Transport Research Society Conference*. Lisbon, Portugal.
- Gao, Y.** & Liu, J. (2024). Navigating the Skies of Airline Customer Loyalty: A Comprehensive Review of Airline Frequent Flyer Program Studies. Paper presented on the *27th Air Transport Research Society Conference*. Lisbon, Portugal.
- Wang, S., Dou, Z., Oluwumi, T., Liu, J. & **Gao, Y.** (2024). The Domino Effect of Airport Dehubbing: A case study of Cleveland Hopkins International Airport and Akron Canton Airport. Paper presented on the *27th Air Transport Research Society Conference*. Lisbon, Portugal.
- Wang, S. & **Gao, Y.** (2024). Determinants of Airport Parking Revenues: An Econometric Analysis (ACRP Graduate Research Award). Paper presented on the *2024 Transportation Research Board (TRB) Annual Meeting*. Washington, DC.
- Dou, Z. & **Gao, Y.** (2024). Flight Passes Do Stimulate Consumers' Spending: A Case study of China Eastern Airlines' "Wild Your Weekends". Poster presented on the *2024 Transportation Research Board (TRB) Annual Meeting*. Washington, DC.
- Karanki, F., Bilokach, V., **Gao, Y.** & Lu, C. T. (2024). The Economic Impact of E-Commerce on U.S. Airports: Cost Savings and Productivity Growth. Paper presented on the *2024 Transportation Research Board (TRB) Annual Meeting*. Washington, DC.
- Gao, Y.** & Lu, C.T. (2023). Review and Revamp Aviation Management as a Discipline. Workshop presented on the *2023 UAA Annual Collegiate Aviation Conference & Expo*. St. Petersburg, FL.
- Patankar, M., Henneberry, D., Karanki, F., **Gao, Y.** & Wang, P. H. (2023), Competency-based Assessment. Workshop presented on the *AABI International Annual Meeting 2023*. Indianapolis, IN.
- Gao, Y.** & Wang, S. (2023). Fly net zero by 2050: Does the airline industry forget the trips from home to airports? *Curiosity: Interdisciplinary Journal of Research and Innovation*.
<https://doi.org/10.36898/001c.84857>
- Gao, Y.** (2023). Mapping Airport Catchment Areas: A Multidimensional Approach. Study presented on the *11th National Aviation System Planning Symposium*. Irvine, CA.
- 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. Poster presented on the *11th National Aviation System Planning Symposium*. Irvine, CA.
- Wu, S. & **Gao, Y.** (2023). Happy or Grumpy? A Machine Learning Approach to Analyze the Sentiment of Airline Passengers' Tweets. Poster presented on the *2023 Transportation Research Board (TRB) Annual Meeting*. Washington DC.
- 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. Poster presented on the *2023 Transportation Research Board (TRB) Annual Meeting*. Washington DC.
- Wang, S, Kong, N. & **Gao, Y.** (2022). The Use of mobility data in estimating airport catchment areas: A case study of a multiple airport region in Texas. Poster presented on the on the *2022 Applied Geography Conference (AGX)*.
- Keller, J., Mendonca, F., Spence, T., Asunda, P. & **Gao, Y.** (2022). Development and evaluation of an online fatigue training course for collegiate aviation pilots. Paper presented on the *National Training Aircraft Symposium (NTAS) 2022*. Daytona Beach, FL.
- Gao, Y.**, Liu, J., & Wang, S. (2022). Visualize Your Research Work. Workshop presented on the *2022 UAA Annual Collegiate Aviation Conference & Expo*. Colorado Springs, CO.
- Liu, J., Beck, C. & **Gao, Y.** (2022). Passengers' Perceptions of Airlines' Logo Design and Their Business Models. Paper presented on the *25th Air Transport Research Society Conference (Hybrid)*. Antwerp, Belgium.
- Wang, S. & **Gao, Y.** (2021). Can COVID-19 Data Be Used to Guide Airline Stock Trading During the Pandemic? Paper presented on the *24th Air Transport Research Society Conference*. Sydney, Australia.
- Gao, Y.** (2019). Precision Mapping Airport Catchment Area. Paper presented on the *Passenger Loyalty*

- China Summit 2019 (PLCS2019)*. Shanghai, China.
- Gao, Y.** (2018). The possibility of transforming the loyalty arm of Airlines into a data company. Paper presented on the *Passenger Loyalty China Summit 2018 (PLCS2018)*. Shanghai, China.
- Gao, Y.** & Kuang, J. (2018). Understanding social media in China. the *10th Annual Loyalty Conference (Loyalty2018)*. Bangkok, Thailand
- Gao, Y.** (2017). Are frequent flyer programs still loyalty programs for frequent flyers? Paper presented on the *Passenger Loyalty China Summit 2017 (PLCS2017)*. Shanghai, China.
- Gao, Y.** & Lewinski, R.. (2017) The value of frequent flyer programmes: The gap between wishful thinking and reality. Paper presented on the *9th Annual Loyalty Conference (Loyalty2017)*. London, UK.
- Chen, Y., Nguyen, K., Brincat, R., & **Gao, Y.** (2015). A comparison of the value of frequent flyer points/miles from the perspective of Australia travellers. *Proceedings of the 2015 World Conference of Air Transport Research Society (ATRS)*. Singapore.
- Winter, S., **Gao, Y.**, Rudari, L., & Sperlak, L. (2014). Fostering diversity in collegiate aviation programs: Overcoming challenges and leveraging existing resources. Paper presented on the *2014 Fall Educational Conference of the University Aviation Association*. Daytona Beach, Florida.
- Gao, Y.**, & Wei, D. (2014) An Operational-Safety Oriented Optimization of Airport Gate Assignment. Paper presented on the 20th Conference of the International Federation of Operational Research Societies (IFORS2014). Barcelona, Spain.
- Gao, Y.**, KOO, T. T. R., & Qin, R. (2014). Fly from Australia to Europe via China? A qualitative analysis of Australian travelers' choice of Chinese carriers on the Australia-Europe route. *Proceedings of the 2014 World Conference of Air Transport Research Society (ATRS)*. Bordeaux, France.
- Chandra, S., Chetan, K. C., Crawford, B., Dwyer, J., & **Gao, Y.** (2014). Establishing a benchmark of fuel efficiency for commercial airline operations. *Proceedings of the 2014 World Conference of Air Transport Research Society (ATRS)*. Bordeaux, France.
- Gao, Y.** & Cui, Y. (2013, July). *Forecasting manpower demand for airport ground service staff: A simulation approach*. Paper presented at the 26th European Conference on Operational Research (EURO2013), Rome, Italy.
- Gao, Y.**, Bruce, P. J., Newman, D. G., & Rajendran, N. (2013, June). Safety climate of crew members: A cross-sectional investigation of flight crew and cabin crew. *Proceedings of the 2013 World Conference of Air Transport Research Society (ATRS)*. Bergamo, Italy.
- Bruce, P. J., **Gao, Y.**, Newman, D. G., & Rajendran, N. (2013, June). A comparative study of flight crews' attitudes toward the safety climate of a commercial airline from 2011 to 2012. *Proceedings of the 2013 World Conference of Air Transport Research Society (ATRS)*. Bergamo, Italy.
- Gao, Y.** & Wei, D. (2012, June). A quantitative assessment of the impact of flight delays on the scheduling of airport ground service staff. *Proceedings of the 2012 World Conference of Air Transport Research Society (ATRS)*. Tainan, Taiwan.
- Bruce, P., **Gao, Y.**, Newman, D. G., & Zhang, C. B. (2012, June). A study of the safety climate of the flight crew of a commercial airline. *Proceedings of the 2012 World Conference of Air Transport Research Society (ATRS)*. Tainan, Taiwan.
- Gao, Y.**, Zhang, C. B., & Bruce, P. (2012, June). An analysis of the competitiveness of high-speed-rail in the Beijing-Shanghai market. *Proceedings of the 2012 World Automation Congress (WAC)*. Puerto Vallarta, Mexico.
- Gao, Y.** (2011, July). *A robust optimization approach to the optimization of airline employee scheduling*. Paper presented at the 19th Triennial Conference of the International Federation of Operational Research Societies (IFORS2011), Melbourne, Australia.
- Gao, Y.** (2009). *Manpower scheduling of airport ramp service employees*. Virtual poster session presented at the University Aviation Association Fall Education Conference, Wichita, Kansas, USA.
- Gao, Y.**, & Nie, R. (2005). Air traffic conflict detection and resolution model based on geometric algorithm. In Z. Yang, X. Yan, & J. Zhang (Ed.), *6th National Youth Conference on Transportation and Communications. China Transportation Research and Exploration* (pp. 429-432). Dalian, China: Dalian Maritime University Press.
- Wang, Z., Li, H., & **Gao, Y.** (2003). Optimal algorithm for multi-airport flight queues problem in automatic air traffic flow management. In J. Zhang; X. Yan; W. Wang, & H. Zuo (Ed.) *5th National Youth Conference on Transportation and Communications, Changsha, China. China Transportation Research and Exploration* (pp. 603-607). Beijing, China: China Communications Press.

Books & Edited Books

- Bruce, P. J., **Gao, Y.**, & King, J. M. C. (2017). *Airline Operations: A Practical Guide*. United Kingdom: Routledge
- Gao. Y.** (2026, expected). *Understanding Airline Frequent Flyer Programs – A Comprehensive Analysis*. Under contract with Springer Nature Switzerland AG.

Federal Project Reports

- National Academies of Sciences, Engineering, and Medicine. 2023. *Toolkit for Establishing Airport Catchment Areas*. Washington, DC: The National Academies Press.
<https://doi.org/10.17226/27424>.
- National Research Council. 2023. *State of Airport Loyalty Programs*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/27279>.

Research Grants & Sponsored Projects

- Purdue University (Total Awards as of September 2025: \$2,762,000 / \$610,000)
 - ACRP 01-59: Guide for Developing and Managing Airport Landside Vehicular Congestion Pricing
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: PI (Lead of the Purdue Team, as a sub-recipient to the primary consultant)
 - Expected Date: October 2025 – February 2027
 - Total Award Amount: \$400,000.00
 - Investigator's Award Amount: \$25,000.00
 - ACRP 03-80: A Guide for Air Cargo System Planning
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: co-PI
 - Expected Date: October 2025 – February 2027
 - Total Award Amount: \$425,000.00
 - Investigator's Award Amount: \$ 40,265.00
 - ACRP 01-55: Guide for In-Terminal Airport Concession Programs
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: PI (Lead of the Purdue Team, as a sub-recipient to the primary consultant)
 - Total Proposal Amount: \$500,000.00
 - Investigator Proposal Amount: \$125,000
 - ACRP 03-74: ACRP Web Resource for Airport User Choice Modeling and Analysis
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: Senior Specialist
 - Total Proposal Amount: \$350,000.00
 - Investigator Proposal Amount: \$30,000
 - ACRP 03-72: A Guide on the Economic Impacts of E-Commerce on Airports and Airport Stakeholders
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: Project Manager/co-PI
 - Total Proposal Amount: \$400,000.00
 - Investigator Proposal Amount: \$60,000
 - Determinants of Airport Parking Revenues: An Econometric Analysis
 - Sponsoring Organization: Virginia Space Grant Consortium
 - Role: Academic Supervisor (Student investigator: Sen Wang)
 - Total Proposal Amount: \$12,000.00
 - ACRP Synthesis 11-03/Topic S01-27: State of Airport Loyalty Programs
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: PI (Lead of the project)
 - Total Proposal Amount: \$45,000.00
 - ACRP 03-62: A Toolkit for Establishing Airport Catchment Areas
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: PI (Lead of the project)
 - Total Proposal Amount: \$300,000.00

- ACRP 01-41: Airport Blockchain Implementation Guidebook
 - Sponsoring Organization: National Academies of Science, Engineering and Medicine
 - Role: PI (Lead of the Purdue Team, as a sub-recipient to the primary consultant)
 - Total Proposal Amount: \$330,000.00
 - Investigator Proposal Amount: \$73,000.00.
- Swinburne University of Technology (Australia) (Total Awards: A\$168,050)
 - Safety climate analysis: A cross-sectional comparison of four occupations
 - Sponsoring Organization: Virgin Australia (airline)
 - Total Award: A\$81,200
 - Date: 2014-2015
 - Role: PI
 - Safety climate analysis: A longitudinal comparison of flight crew's responses
 - Sponsoring Organization: Virgin Australia (airline)
 - Total Award: A\$66,100
 - Date: 2012-2013
 - Role: PI
 - Safety climate analysis: A study of the flight crew
 - Sponsoring Organization: Virgin Australia (airline)
 - Total Award: A\$20,750
 - Date: 2011-2012
 - Role: co-PI

SECTION II: LEARNING & TEACHING

Major Curriculum Development Achievement

- New Professional Development Certificate Program
 - *ISTAT University, 2024*
- New Degree Program
 - *Graduate Certificate in Aviation Financial Management, 2021*
- New Course
 - AT 54600 Aviation Financial Instruments and Operations (Re-built)
 - AT 54700 Airline Revenue Management (New)
 - AT 54800 Aircraft Asset Management (New)
 - AT 54900 Aircraft Leasing (New)

Doctoral Students Supervision

- Doctor of Philosophy (Ph.D.)
 - Yinxiao Zhang, Committee Chair, degree expected May 2029
 - Jialong Sun, Committee Chair, degree expected May 2029
 - Jiayu Liu, Committee Chair, degree expected May 2027
 - Yen-Chen Huang, Committee Member, degree expected May 2027
 - Zhi Dou, Committee Chair, degree expected May 2026
 - Tolulope Oluwumi, Committee Chair, degree expected May 2026
 - =====
 - Sen Wang, Committee Chair, degree awarded May 2024
 - Currently Assistant Professor at Ohio State University
 - Jiansen Wang, Committee Member, degree awarded August 2024
 - Currently Assistant Professor at University of Houston – Victoria
 - Linfeng Jin, Committee Member, degree awarded August 2021
 - Currently Assistant Professor at Embry-Riddle Aeronautical University
- Doctor of Technology (D. Tech)
 - Michael Ott, Committee Member, degree expected May 2026
 - Stacy Workman-Wyatt, Committee Member, degree expected May 2026
 - Thomas Takaindisa, Committee Member, degree awarded August 2025

- Master of Science (MSc)
 - Jialing Lin, Committee Chair, degree expected December 2025
 - Jialong Sun, Committee Chair, December 2024
 - Zhuofan Li, Committee Chair, May 2024
 - Pradeep Natrajan Kumar, Committee Chair, December 2023
 - David Cargill, Committee Chair, August 2023
 - Anirudh Reddy Jammula, Committee Chair, May 2023
 - Alizabeth Arnett, Committee Chair, May 2023
 - Jiayu Liu, Committee Chair, May 2023.
 - Yunhao Zhou, Committee Chair, May 2022.
 - Trey Heckaman, Committee Chair, May 2022.
 - Jiyang Wang, Committee Chair, May 2022.
 - Sen Wang, Committee Chair, 2020.
 - Jiaying Mei, Committee Chair, 2020.
 - Weikai Ye, Committee Chair, 2020.
 - Christine Jeon, Committee Chair, 2020.
 - Peter K. Maynard, Capstone Research Project, 2020.
 - David L. Magness, Capstone Research Project, 2020.

Courses Delivered

- Purdue University
 - AT10200 – Aviation Business
 - AT33800 – Airline Management
 - AT41200 – Aviation Finance
 - AT49800 – Aviation Technology Capstone
 - AT54600 – Aviation Financial Instruments and Operations
 - AT54700 – Airline Revenue Management
 - AT54800 – Aircraft Asset Management
- Swinburne University of Technology (Australia)
 - AVA10005 – Aviation Regulation and Operations
 - AVA40004 – Aviation Research Project (Part I)
 - AVA40006 – Aviation Research Project (Part II)

SECTION III: ENGAGEMENT & SERVICE

Journal Editorial & Review Board

- Editor, 2021 – 2023
 - *Collegiate Aviation Review*, published by University Aviation Association
- Member of Editorial Board
 - *International Journal of Aviation Sciences*, published by Florida Institute of Technology
- Publication Reviewer (Sample list)
 - *Collegiate Aviation Review International*
 - *European Transport Research Review*
 - *International Journal of Aviation, Aeronautics, and Aerospace*
 - *Journal of Aviation/Aerospace Education & Research*
 - *Journal of Aviation Technology & Engineering*
 - *Journal of Air Transport Management*
 - *Journal of Modelling in Management*
 - *Journal of Retailing and Consumer Services*
 - *Learning and Individual Differences*
 - *The Aeronautical Journal*
 - *The International Journal of Human Resource Management*
 - *Transportation Letters: The International Journal of Transportation Research*
 - *Transport Reviews*
 - *Transportation Research Part D: Transport and Environment*

- *Transportmetrica B: Transport Dynamics*
- *Transportation Research Record: Journal of the Transportation Research Board*

External Research Grant Reviewer

- Natural Sciences and Engineering, Research Council of Canada, 2025
- USDOT Tier-1 UTC Transportation Cybersecurity Center for Advanced Research and Education (CYBER-CARE), 2024 & 2025

Research Project Panelist

- ACRP 10-39: Best Practice Guide for Airport Operational Resilience: Update to ACRP Report 65
 - 2025 – 2026
- ACRP Project 09-23 Strategies for Spatial Data Maintenance at Airports
 - 2024-2025
- ACRP Synthesis Project 11-03/Topic S10-21 Utilizing Airport Automatic Dependent Surveillance-Broadcast (ADS-B) Data
 - 2024-2025
- ACRP Synthesis Project 11-03/Topic S03-18 Communication, Implementation, and Outcomes of Airport Economic Impact Studies
 - 2022-2023

External Educational Program Reviewer

- Embry-Riddle Aeronautical University
 - Master of Science in Aviation (MSA), 2023
 - Aviation Ph.D., 2022
- California State University
 - Bachelor of Science in Aviation Administration, 2022

Media Report

Indiana Public Media, "New Airline Rules Prioritize Passenger Protection", December 20, 2024.

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<http://www.wlfi.com/content/news/Airline-ticket-prices-set-to-increase-as-holiday-season-nears-498356601.html>

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The National, "Etihad performs a perfect flight", 25 July 2015, <<http://www.thenational.ae/uae/technology/etihad-performs-a-perfect-flight#full>>

Professional Affiliations

- International Society of Transport Aircraft Trading (ISTAT), 2020 – Present
 - Representative of Purdue University
- The Airline Group of the Int'l Federation of Operational Research Societies, 2012 – Present
 - Member
- University Aviation Association (UAA), 2009 – Present
 - Chair, Publication Committee, 2021 – 2023
 - Board of Trustees, Educator Trustee, 2024 – Present

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