

**YULAI SARAH WAN**

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Tel.: (852) 2766-7868 Email: [sarah.wan@polyu.edu.hk](mailto:sarah.wan@polyu.edu.hk)**EMPLOYMENT**

- 2019 - Present Associate Professor, Department of Logistics and Maritime Studies, Hong Kong Polytechnic University
- 2013 - 2019 Assistant Professor, Department of Logistics and Maritime Studies, Hong Kong Polytechnic University

**EDUCATION**

- PhD (Transportation and Logistics), University of British Columbia, 2013
- MPhil (Operations Management), Chinese University of Hong Kong, 2007
- BBA (Hons) in Management Science, City University of Hong Kong, 2005

**RESEARCH****(i) Papers published in refereed journals:**

- Gu, H. and Wan, Y. (2020) "Can entry of high-speed rail increase air traffic? Price competition, travel time difference and catchment expansion", *Transport Policy*, accepted.
- Liu, S., Wan, Y. and Zhang, A. (2020) "Does China's high-speed rail development lead to regional disparities? A network perspective", *Transportation Research Part A: Policy and Practice*, 138, 299-321.
- Bracaglia, V., D'Alfonso, T., Nastasi, A., Sheng, D., Wan, Y. and Zhang, A. (2020) "High-speed rail networks, capacity investments and social welfare", *Transportation Research Part A: Policy and Practice*, 132, 308-323.
- Liu, S., Wan, Y., Yoshida, Y., Ha, H.-K. and Zhang, A. (2019) "Impact of high-speed rail network development on airport traffic and traffic distribution: Evidence from China and Japan", *Transportation Research Part A: Policy and Practice*, 127, 115-135.
- Zhang, A., Wan, Y. and Yang, H. (2019) "Impacts of high-speed rail on airlines, airports and regional economies: A survey of recent research", *Transport Policy*, 81, A1-A19.
- Chang, Z., Yang, D., Wan, Y. and Han, T. (2019) "Analysis on the features of Chinese dry ports: Ownership, customs service, rail service and regional competition", *Transport Policy*, 82, 107-116. DOI: <https://doi.org/10.1016/j.tranpol.2018.06.008>.
- Guo, H., Jiang, C. and Wan, Y. (2018) "Can airfares tell? An alternative empirical strategy for airport congestion internalization", *Transportation Research Part A: Policy and Practice*, 118, 648-661.
- Wan, Y., Zhang, A. and Li, K.X. (2018) "Port competition with accessibility and congestion: A theoretical framework and literature review on empirical studies", *Maritime Policy and Management*, 45(2), 239-259.
- D'Alfonso, T., Bracaglia, V. and Wan, Y. (2017) "Airport cities and multiproduct pricing", *Journal of*

*Transport Economics and Policy*, 51(4), 290-312.

- Jiang, C., D'Alfonso, T. and Wan, Y. (2017) "Air-rail cooperation: Partnership level, market structure and welfare implications", *Transportation Research Part B*, 104, 461-482.
- Jiang, C., Wan, Y. and Zhang, A. (2017) "Internalization of port congestion: strategic effect behind shipping line delays and implications for terminal charges and investment", *Maritime Policy and Management*, 44(1), 112-130.
- Wan, Y., Ha, H.-K., Yoshida, Y. and Zhang, A. (2016) "Airlines' reaction to high speed rail entries: Empirical study of the Northeast Asian market", *Transportation Research Part A*, 94, 532-557.
- Wan, Y., Basso, L. J. and Zhang, A. (2016) "Strategic investments in accessibility under port competition and inter-regional coordination", *Transportation Research Part B*, 93, 102-125.
- Wan, Y., Jiang, C. and Zhang, A. (2015) "Airport congestion pricing and terminal investment: effects of terminal congestion, passenger types and concessions", *Transportation Research Part B*, 82, 91-113.
- Lo, W.W.L., Wan, Y. and Zhang, A. (2015) "Empirical estimation of price and income elasticities of air cargo demand: The case of Hong Kong", *Transportation Research Part A: Policy and Practice*, 78, 309-324.
- Jiang, C., Wan, Y., D'Alfonso, T. (2015) "Strategic choice of alliance membership under local competition and global networks", *Journal of Transport Economics and Policy*, 49(2), 316-337.
- Wan, Y., Yuen, A. and Zhang, A. (2014) "Effects of hinterland accessibility on U.S. container port efficiency", *International Journal of Shipping and Transport Logistics*, 6(4), 422-440.
- Leung, L. C., Wong, W. H., Hui, Y. V. and Wan, Y. (2013) "Managing third-party logistics under uncertainty: a decision scheme and managerial implications", *International Journal of Production Economics*, 145(2), 630-644.
- Ha, H.-K., Wan, Y., Yoshida, Y. and Zhang, A. (2013) "Airline market structure and airport efficiency: evidence from major Northeast Asian airports", *Journal of Air Transport Management*, 33, 32-42.
- Wan, Y., Zhang, A. and Yuen, A. (2013) "Urban road congestion, capacity expansion and port competition: empirical analysis of U.S. container ports", *Maritime Policy and Management*, 40(5), 417-438.
- D'Alfonso, T., Jiang, C. and Wan, Y. (2013) "Airport pricing, concession revenues and passenger types", *Journal of Transport Economics and Policy*, 47(1), 71-89.
- Wan, Y. and Zhang, A. (2013) "Urban road congestion and seaport competition", *Journal of Transport Economics and Policy*, 47(1), 55-70.
- Wan, Y., Wong, W. H., Leung, L. C. and Hui, Y. V. (2010) "An airfreight forwarder's shipment planning: simultaneous decisions on job, route and agent selection", *International Journal of Shipping and Transport Logistics*, 2 (3), pp. 249 – 266.

(ii) Book chapters:

- Wan, Y. and Yang, D. (2019) "Freight costs: Air and Sea", in: Vickerman, R. (ed.) *Encyclopedia of Transportation*, Elsevier, accepted.
- Wan, Y. and Zhang, A. (2018) "Chapter 16 Air cargo transport and logistics in Hong Kong and southern China", in: Zhang, J. and Feng, C.-M. (eds.), *Routledge Handbook of Transport in Asia*, New York, NY: Routledge.
- Wan, Y. and Zhang, A. (2018) "Chapter 9 Airport charges, infrastructure life cycle, and economic

impact: a case study of Hong Kong”, in: Kakuya Matsushima and William P. Anderson (eds.) *Transportation, Knowledge and Space in Urban and Regional Economics*, Northampton MA: Edward Elgar.

Wan, Y. and Zhang, A. (2011) “Chapter 17 effects of emission trading schemes”, in: Macário, R. and Van de Voorde, E. (eds.) *Critical Issues in Air Transport Economics and Business*. Oxford, U.K.: Routledge, pp. 285-318.

#### (iii) External research grants

- Impacts of high-speed rail on air transport: Climate change, airport congestion and network structure, RGC/GRF, PI, HK\$582,000, Jan 2018 – Dec 2020
- Strategic Investment in Accessibility: Inter-regional Coordination and Port Ownership, RGC/ECS, PI, HK\$512,137, Jan 2015 - June 2017

#### (iv) Academic honors and awards

- PBS Fellow Award 2017/2018, Faculty of Business, Hong Kong Polytechnic University
- Best Student Paper Award, the 22nd Air Transport Research Society (ATRS) World Conference. Paper title: “The impact of high-speed rail (HSR) development on airport: A comparative study of China and Japan”. Supervised student: Shuli Liu.
- Early Career Award, RGC, 2014-2015

#### (v) Research students supervised

- Hongyi Gu, MPhil/PhD integrated program, chief supervisor, in progress since 2018
- Shuli Liu, PhD, chief supervisor, 2015-2020, completed
- Hanxiang Zhang, PhD, co-supervisor, in progress since 2017

## TEACHING

### Courses taught

- Hong Kong, Greater China and Transport Development (Undergrad, CAR-RW subject, 2013/14 – 2016/2017)
- Economics of International Transport Logistics (Undergrad compulsory, 2013/14 – 2016/2017)
- Air Transport Logistics and Management (MSc core, since 2013/14)
- Air Transport Logistics (Undergrad compulsory, since 2017/18)
- Airline Strategy and Management (Undergrad compulsory, since 2017/18)

### Program management

- Deputy Program Leader, BBA (Hons) in Aviation Management and Logistics (Sept 2015-present)

## ACADEMIC SERVICES

- VP (program), Air Transport Research Society, July 2020 - present
- Guest editor, Special Issue: IFSPA2019, Transportation Research Part E
- Guest editor, Special Issue: Aviation Markets in China, Journal of Air Transport Management
- Scientific Committee Member, ITEA Annual Conference and School on Transportation Economics 2019 - present

- Member, Departmental Undergraduate Program Committee 2019/2020 - present
- Co-chair, local organizing committee, ITEA Annual Conference and School on Transportation Economics 2018
- Organizing Committee Member, International Association of Maritime Economists (IAME) 2020 Conference
- Organizing Committee Member, International Forum for Shipping, Port and Airport (2014, 2015, 2017, 2019)