

LEUNG Abraham

Research Fellow

Expertise

Regional and urban transport; tourism; sustainable mobility; innovation

After completing regional and town planning at The University of Queensland (Australia), Dr LEUNG worked as a Town Planning Graduate at the Planning Department of the Hong Kong Government. He later served as a Senior Research Fellow at Griffith University's Cities Research Institute (Australia), and has held appointments including Adjunct Research Fellow at the Griffith Institute for Tourism (GIFT), Visiting Fellow at the University of Jyväskylä (Finland), and an affiliate of the Sustainable Mobility Research Lab at the University of the Sunshine Coast. Since February 2026, he has been a Research Fellow at the Japan Transport and Tourism Research Institute, conducting research on innovative public and regional transport and tourism.

Term

2, 2026~

Career

[Education]

B.A. Regional and Town Planning, The University of Queensland (Australia),
December 2008

M.Urban Design, Queensland University of Technology (QUT, Australia), July 2013

Ph.D. (Environment and Transport-related field), Griffith University (Australia),
October 2017

[Main Career]

Town Planning Graduate, Planning Department, Hong Kong SAR Government
(Tuen Mun and Yuen Long West; Tsuen Wan and West Kowloon District Planning
Offices), 2009 to 2011

Research Fellow, Cities Research Institute, Griffith University (Australia), 2017 to
2022

Visiting Research Fellow, School of Business and Economics, University of
Jyväskylä (Finland), September 2022

Senior Research Fellow, Cities Research Institute, Griffith University (Australia),
2023 to 2025

Researcher, Faculty of Engineering, University of the Sunshine Coast (Australia),
2025

Adjunct Research Fellow, Griffith Institute for Tourism, Griffith University
(Australia), October 2025~

Research Fellow, Research Fellow at the Japan Transport and Tourism Research Institute, February 2026~

Academic/Professional Societies

Eastern Asia Society for Transportation Studies (EASTS)

World Conference on Transport Research Society (WCTRS)

Planning Institute of Australia (PIA)

Transport Professional Association, Australia (TPA, formerly AITPM)

Awards

Martin Oppermann Memorial Award, Journal of Travel & Tourism Marketing (Editorial Board-selected Best Article of the Year), 2018

Publications

Referred Articles

Eccarius, T., Leung, A., & Chen, C.-F. (2026). Love at first sight? Segmenting tourists' attitudes toward autonomous boats in Kaohsiung's Love River.

Transportation Research Part A: Policy and Practice, 204, 104794.

<https://doi.org/10.1016/j.tra.2025.104794>

Kaufman, B., Leung, A., & Willcox, J. (2025). The tale of two networks: Leveraging digital twin inspired simulations to enhance on-demand transit services.

Transportation Planning and Technology.

<https://doi.org/10.1080/03081060.2025.2465558>

Leung, A., Burlando, C., & Pavanini, T. (2025). Market segmentation and willingness to pay for public transport annual passes among older adults: Insights

from Genoa, Italy. *Research in Transportation Business & Management*, 58, 101243. <https://doi.org/10.1016/j.rtbm.2024.101243>

Yan, Y., Leung, A., Burke, M., & McBroom, J. (2024). Understanding and including 'pinkcollar' workers in employment-based travel demand models. *PLOS ONE*, 19(4), e0301001. <https://doi.org/10.1371/journal.pone.0301001>

Leung, A. (2024). Examining the use patterns and preferences of privately-owned personal mobility devices: Implications for municipal strategic management. *Journal of the Eastern Asia Society for Transportation Studies*, 15, 3475–3494. <https://doi.org/10.11175/easts.15.3475>

Zhu, X., Lohmann, G., Leung, A., & Santos, G. E. D. O. (2023). Using Gini decomposition to explore the multidimensionality of spatial dispersal for tourism promotion – The case of outgoing passengers in Queensland, Australia. *Asia Pacific Journal of Tourism Research*, 28(3), 157–176. <https://doi.org/10.1080/10941665.2023.2217953>

Leung, A., Burke, M., & Scott, P. (2023). Tourism MaaS – The case for regional cities. *Research in Transportation Business & Management*, 49, 101017. <https://doi.org/10.1016/j.rtbm.2023.101017>

Leung, A., Lachapelle, U., & Burke, M. (2023). Spatio-temporal analysis of Australia Post parcel locker use during the initial system growth phase in Queensland (2013–2017). *Journal of Transport Geography*, 110, 103634. <https://doi.org/10.1016/j.jtrangeo.2023.103634>

Yan, Y., Burke, M., Leung, A., & McBroom, J. (2022). Is private-schooling problematic for transportation? Evidence from Southeast Queensland, Australia. *Journal of Transport and Land Use*, 15(1). <https://doi.org/10.5198/jtlu.2022.1874>

Kaufman, B., Leung, A., & Burke, M. (2021). Evaluating demand responsive transit services using a density-based trip rate metric. *Journal of Transport and Land Use*, 14(1), 499–519. <https://doi.org/10.5198/jtlu.2021.1796>

Eccarius, T., Leung, A., Shen, C.-W., Burke, M., & Lu, C.-C. (2021). Prospects for shared electric velomobility: Profiling potential adopters at a multi-campus university. *Journal of Transport Geography*, 96, 103190.

<https://doi.org/10.1016/j.jtrangeo.2021.103190>

Le, T. P. L., Leung, A., Kavalchuk, I., & Nguyen, H. N. (2021). Age-proofing a traffic saturated metropolis – Evaluating the influences on walking behaviour in older adults in Ho Chi Minh City. *Travel Behaviour and Society*, 23, 1–12.

<https://doi.org/10.1016/j.tbs.2020.10.008>

Baumeister, S., & Leung, A. (2021). The emissions reduction potential of substituting shorthaul flights with non-high-speed rail (NHSR): The case of Finland. *Case Studies on Transport Policy*, 9(1), 40–50.

<https://doi.org/10.1016/j.cstp.2020.07.001>

Burke, M. I., Dai, L., & Leung, A. (2020). Comparison of system characteristics of the Guangzhou Water Transit System with its international peers. *Transportation Research Record: Journal of the Transportation Research Board*, 2674(8), 90–99.

<https://doi.org/10.1177/0361198120925272>

Baumeister, S., Leung, A., & Ryley, T. (2020). The emission reduction potentials of First Generation Electric Aircraft (FGEA) in Finland. *Journal of Transport Geography*, 85, 102730. <https://doi.org/10.1016/j.jtrangeo.2020.102730>

Leung, A., Burke, M., Cui, J., & Perl, A. (2019). Fuel price changes and their impacts on urban transport – A literature review using bibliometric and content analysis techniques, 1972–2017. *Transport Reviews*, 39(4), 463–484.

<https://doi.org/10.1080/01441647.2018.1523252>

Leung, A., & Le, T. P. L. (2019). Factors associated with adolescent active travel: A perceptive and mobility culture approach – Insights from Ho Chi Minh City, Vietnam. *Transportation Research Part A: Policy and Practice*, 123, 54–67.

<https://doi.org/10.1016/j.tra.2018.09.004>

Leung, A., Burke, M., Perl, A., & Cui, J. (2018). The peak oil and oil vulnerability discourse in urban transport policy: A comparative discourse analysis of Hong Kong and Brisbane. *Transport Policy*, 65, 5–18.

<https://doi.org/10.1016/j.tranpol.2017.03.023>

Leung, A., Burke, M., & Cui, J. (2018). The tale of two (very different) cities – Mapping urban transport oil vulnerability of Brisbane and Hong Kong. *Transportation Research Part D: Transport and Environment*, 65, 796–816.

<https://doi.org/10.1016/j.trd.2017.10.011>

Lachapelle, U., Burke, M., Brotherton, A., & Leung, A. (2018). Parcel locker systems in a car dominant city: Location, characterisation and potential impacts on city planning and consumer travel access. *Journal of Transport Geography*, 71, 1–14. <https://doi.org/10.1016/j.jtrangeo.2018.06.022>

Leung, A., Yen, B. T. H., & Lohmann, G. (2017). Why passengers' geo-demographic characteristics matter to airport marketing. *Journal of Travel & Tourism Marketing*, 34(6), 833–850.

<https://doi.org/10.1080/10548408.2016.1250698>

Leung, A., Tanko, M., Burke, M., & Shui, C. S. (2017). Bridges, tunnels, and ferries: Connectivity, transport, and the future of Hong Kong's outlying islands. *Island Studies Journal*, 12(2), 61–82. <https://doi.org/10.24043/isj.24>

Leung, A., Burke, M., Yen, B. T. H., & Chiou, Y.-C. (2017). Benchmarking urban transport oil vulnerability in 11 Asia-Pacific cities. *Journal of the Eastern Asia Society for Transportation Studies*, 12, 1005–1022.

<https://doi.org/10.11175/easts.12.1005>

Runting, R., Corcoran, J., Leung, A., & Pullar, D. (2011). Oil vulnerability: The effect of non-metropolitan areas and master planned estates in South East Queensland 2001–2006. *Australian Planner*, 48(3), 117–130.

<https://doi.org/10.1080/07293682.2011.592501>

Research reports

Leung, A., Burke, M., Akbar, D., & Kaufman, B. (2021). Mobility as a Service—Regional Research. Cities Research Institute, Griffith University.

<https://research-repository.griffith.edu.au/server/api/core/bitstreams/9df9d9aa-b2d0-45a6-b9c2-ed030fee534/content>

Leung, A., Burke, M., James, B., & Brotherton, A. (2019). Innovative Cycling Infrastructure Funding Models and their potential in Queensland—Final Report. Griffith University. <https://research-repository.griffith.edu.au/items/12f467e3-8ba3-41a2-9cdc-7cf3178443a4>

Conference presentations

Leung, A., Baumeister, S., & Ryley, T. (2025, July 1). *Planes, Trains, and Automobiles: Can Electrification Transform Local and Intercity Travel Carbon and Time Budgets in Finland?* 28th Air Transport Research Society (ATRS) World Conference, Hong Kong.

Leung, A. (2023, November 29). *Exploring regional Queensland MaaS stakeholder perspectives through structural topic modelling*. Australasian Transport Research Forum (ATRF), Perth, Australia.

Leung, A., Pavanini, T., Burke, M., Zhu, X., Trembath, H., & Gadaloff, S. (2023, July 20). *Which businesses are for and against “pop-up” cycleways: The case of Brisbane’s CityLink Cycleway*. 16th World Conference on Transport Research (WCTR 2023), Montreal. <https://doi.org/10.1016/j.trpro.2024.12.201>

Leung, A. (2023, July 18). *The prospects of Tourism MaaS with a focus on regional cities*. 16th World Conference on Transport Research (WCTR 2023) (G3-S14_SS Special Session: How “integration” in MaaS will contribute to urban

policies?), Montreal. <https://easychair.org/smart-program/WCTR2023/2023-07-18.html#session:74019>

Leung, A., & Burke, M. (2022, December 12). *Understanding private ownership and use of personal mobility devices (PMDs) in South East Queensland*. 26th International Conference of Hong Kong Society for Transportation Studies, Hong Kong.

Leung, A., Baumeister, S., Pavanini, T., Matsumoto, Y., Le, T. P. L., & Scott, P. (2022, November 29). *"The best of both worlds?" Linking tourism and transport functions in MaaS: A review of selected European and Asian-Pacific exemplars*. 3rd International Conference on Mobility as a Service (ICoMaaS 2022), Tampere. <https://events.tuni.fi/icomaas2022/pro/>

Leung, A., Zhu, X., Burke, M., Yang, E., & Kaufman, B. (2022, September 8). *Do city visitors who use e-scooters more often, spend more? A spatiotemporal analysis of tourism dispersal in Townsville, Australia*. Thredbo 17 Conference, Sydney.

Leung, A., & Burke, M. (2021). *The prospects and challenges of new electric micromobility (e-mobility) modes and their strategic municipal management in Asian Pacific cities*. Eastern Asia Society for Transportation Studies, Hiroshima. <http://hdl.handle.net/10072/413691>

Leung, A., & Burke, M. (2021). *The prospects for tourism-focused MaaS in Queensland*. Australasian Transport Research Forum (ATRF) 2021, Brisbane. <http://hdl.handle.net/10072/416152>

Leung, A. (2019, December 5). *How much transport is shared? Current and new ways to measure shared mobility for Australian cities: The case of South East Queensland*. State of Australian Cities National Conference (SOAC) 2019, Perth. <https://apo.org.au/node/306008>

Leung, A., & Le, T. P. L. (2019, May 26–31). *The perception of air pollution exposure from commuting in Ho Chi Minh City, Vietnam*. World Conference on Transport Research (WCTR) 2019, Mumbai. <http://hdl.handle.net/10072/388945>

Leung, A., Perl, A., & Burke, M. (2019, January 13–17). *Considering Vancouver's mobility pricing independent commission as a policy learning venue*.

Transportation Research Board (TRB) 98th Annual Meeting, Washington, DC.

Leung, A. (2018, October 30–November 1). *Alternative ways to pay? A review of non-government sources to fund bikeways*. Australasian Transport Research Forum (ATRF) 2018, Darwin.

https://atrf.info/papers/2018/files/ATRF2018_paper_77.pdf

Leung, A., Burke, M., & Perl, A. (2017, November 30). *Where are the electric cars and solar panels? The socio-spatial mismatch of mobility and energy transition in Australian capitals*. State of Australian Cities National Conference (SOAC) 2017, Adelaide. <https://doi.org/10.4225/50/5b302994342f5>

Leung, A., Burke, M., Yen, B. T. H., & Chiou, Y.-C. (2017, September 21). *Benchmarking urban transport oil vulnerability in 11 Asia-Pacific cities*. 12th Eastern Asia Society for Transportation Studies (EASTS) Conference, Ho Chi Minh City. <http://hdl.handle.net/10072/372036>

Leung, A., Burke, M., Eccarius, T., Yen, B. T. H., & Chiou, Y.-C. (2017, July 6). *Effects of contemporary light rail on vehicle use: An exploratory analysis of Gold Coast, Australia*. World Symposium on Transport and Land Use Research (WSTLUR) 2017, Brisbane.

Leung, A., Chiou, Y.-C., Yen, B. T. H., & Burke, M. (2016, December 9). *Comparative data envelopment analysis of oil vulnerability of urban transport in Taiwan and Australia*. 2016 International Conference and Annual Meeting of the Chinese (Taiwan) Institute of Transportation, Hualien.

Leung, A., Burke, M., Yen, B. T. H., & Cui, J. (2016, November 16–18). *Oil vulnerability of Australian capital cities: A pilot study using data envelopment analysis (DEA) for vulnerability benchmarking*. Australasian Transport Research Forum (ATRF) 2016, Melbourne.

Leung, A., Burke, M., & Cui, J. (2016, July 10–15). *The tale of two (very different) cities: Mapping urban transport oil vulnerability of Brisbane and Hong Kong*. 14th World Conference on Transport Research 2016, Shanghai.

Leung, A., Burke, M., Cui, J., & Perl, A. (2015, December 11). *New approaches to oil vulnerability mapping for Australian cities: The case of South-East Queensland, the 200km city*. State of Australian Cities National Conference (SOAC) 2015, Gold Coast.

PhD Thesis

Leung, A. (2017). Evaluating Urban Transport Oil Vulnerability of Asia Pacific Cities [Griffith University]. <https://doi.org/10.25904/1912/3505>

Media articles

Leung, A. (2024, October 10). Rebates for buying e-bikes and e-scooters are good but unlikely to greatly boost sustainable transport on their own. The Conversation. <https://theconversation.com/rebates-for-buying-e-bikes-and-e-scooters-are-good-but-unlikely-to-greatly-boost-sustainable-transport-on-their-own-239939>

Leung, A., & Burke, M. (2024, May 28). Catching public transport in Queensland will soon cost just 50 cents. Are cheap fares good policy? The Conversation. <https://theconversation.com/catching-public-transport-in-queensland-will-soon-cost-just-50-cents-are-cheap-fares-good-policy-230979>

Leung, A., & Bland, M. (2022, March 24). Thinking of swerving high fuel prices with an e-scooter or e-bike? 5 crucial questions answered. The Conversation. <https://theconversation.com/thinking-of-swerving-high-fuel-prices-with-an-e-scooter-or-e-bike-5-crucial-questions-answered-179563>

Leung, A., Kaufman, B., Yang, E. C. L., & Burke, M. (2021, June 22). Wallets on wheels: city visitors who use e-scooters more spend more. The Conversation.

<https://theconversation.com/wallets-on-wheels-city-visitors-who-use-e-scooters-more-spend-more-161886>

Kaufman, B., & Leung, A. (2019, July 4). We subscribe to movies and music, why not transport? The Conversation. <https://theconversation.com/we-subscribe-to-movies-and-music-why-not-transport-119538>