

Zach JL Lee

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ACADEMIC APPOINTMENTS

Research Fellow, Lloyd's Register Foundation Institute for the Public Understanding of Risk, National University of Singapore, 2026 – present

Research Associate, Economic Growth Centre, Nanyang Technological University, 2017 – 2024

EDUCATION

Ph.D. in Economics, Nanyang Technological University, 2020 – 2026 (expected)

M.Sc. in Environmental Engineering, Nanyang Technological University, 2017

B.Eng. in Electrical & Electronic Engineering, Nanyang Technological University, 2006

PUBLICATIONS

Islam, M. S., Lee, Z. J. L., Shaleh, A., & Soo, H. S. (2024). The United Nations Environment Assembly resolution to end plastic pollution: Challenges to effective policy interventions. *Environment, Development and Sustainability*, 26(5), 10927–10944. <https://doi.org/10.1007/s10668-023-03639-6>

Quah, E., Iuldashov, L. N., & Lee, Z. J. L. (2022). *Albert Winsemius and Singapore: Here it is going to happen*. World Scientific. <https://doi.org/10.1142/12081>

Quah, E., Tan, T. S., & Lee, Z. J. L. (2021). Cost-benefit analysis in developing countries. In N. Mouster (Ed.), *New methods, reflections and application domains in transport appraisal (Advances in Transport Policy and Planning, Vol. 7, pp. 235–260)*. Elsevier. <https://doi.org/10.1016/bs.atpp.2021.02.002>

WORKING PAPERS

Lee, Z. J. L. (2026). *Travel as production: Endogenous in-trip output, scheduling, and the bottleneck*. [latest version here]. [SSRN]. [EGC].

Quah, E., Chia, W. M., Chua, Y. H., Lee, Z. J. L., & Tan, J. R. (2025). *Decarbonisation pathways for Singapore* (Economic Growth Centre Working Paper Series No. 2501). Economic Growth Centre, School of Social Sciences, Nanyang Technological University. [latest version here].

WORKS IN PROGRESS

- Morning Commute Bottleneck Congestion and Its Welfare Cost
- Delegation to Autonomous Vehicles: A Behavioural Perspective (with co-authors)
- The Evacuation Fraction: From Individual to Collective Behaviour (with co-authors)
- Valuing a Heritage Portfolio (with co-authors)

SELECTED RESEARCH PROJECTS

- Project team member, Comprehensive Decision Matrix for Adaptive Coastal Protection Planning, PUB, Singapore's National Water Agency, 2026 – ongoing.
- Project team member, ASEAN Green Futures Project, Phases 2 and 3, UN Sustainable Development Solutions Network, 2022 – 2024.
- Project team member, Developing a Public-Private Partnership by Crowdfunding to Create Sustainable Plastics Upcycling Technologies, Alliance to End Plastic Waste, Singapore, 2021 – 2023.

- Project team member, Heritage Valuation Study, National Heritage Board, Singapore, 2021 – 2023.
- Project team member, Behavioural Study on Deterrent Effects of the Mandatory Capital Penalty, Ministry of Home Affairs, Singapore, 2021 – 2023.
- Project team member, Platform for Interconnected Micro-grid Operation (PRIMO), National Research Foundation, Singapore, 2020 – 2022.
- Project team member, Preferences for Autonomous Vehicles Experiments (PAVE), National Research Foundation, Singapore, 2017 – 2022.

PRESENTATIONS

- “Decarbonisation Pathways for Singapore (Power Sector).” Invited presentation, Asia Pacific Climate Week, Johor, Malaysia, 2023.
- “Delegation to Autonomous Vehicles.” Society for Cost Benefit Analysis European Conference, 2023.
- “Climate Change Mitigation and Adaptation Policies in the Philippines.” Invited discussant, Asian Economic Panel, Seoul, South Korea, 2022.

PROFESSIONAL SERVICE

- Special Assistant to the Editor, Singapore Economic Review, 2026 – present.
- Honorary Assistant Secretary, Economic Society of Singapore, 2018 – 2024.
- Asia Working Group Member, Society for Cost-Benefit Analysis, 2023.

TEACHING EXPERIENCE

Nanyang Technological University — Teaching Assistant

- Cost Benefit Analysis, AY2021 – AY2024
- Environmental Economics, AY2021 – AY2024
- Principles of Economics, AY2024