



Global Initiative of Academic Networks (GIAN)

BRINGING SYNERGY ACROSS DIFFERENT TRANSIT MODES IN INDIA BY ADDRESSING CHALLENGES FOR SUSTAINABLE TRANSPORT MODES

JUNE 23 - 27, WARANGAL, INDIA

Instructors

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CASE STUDIES

I compiled several case studies on public transportation that encompass empirical and methodological issues with transit system analysis. The studies include ridership, role of new systems, endogeneity of headway and ridership, impact of shared mobility on traditional public transit.

CASE STUDIES PROJECT

Students will be allocated to Teams

Each team will select 2 research papers for review in consultation with me and Dr. Raghuram

The teams will work with us during the week to address any questions

On Friday, you will provide a critique on the set of selected papers

PAPERS (CHRONOLOGICAL ORDER)

Chakour, V. and Eluru, N., 2014. Analyzing commuter train user behavior: a decision framework for access mode and station choice. *Transportation*, 41, pp.211-228

Chakour, V. and Eluru, N., 2016. Examining the influence of stop level infrastructure and built environment on bus ridership in Montreal. *Journal of Transport Geography*, 51, pp.205-217

Campbell, K.B. and Brakewood, C., 2017. Sharing riders: How bikesharing impacts bus ridership in New York City. *Transportation Research Part A: Policy and Practice*, 100, pp.264-282

Rahman, M., Yasmin, S. and Eluru, N., 2019. Evaluating the impact of a newly added commuter rail system on bus ridership: a grouped ordered logit model approach. *Transportmetrica A: Transport Science*, 15(2), pp.1081-1101

PAPERS (CHRONOLOGICAL ORDER)

Adhvaryu, B., Chopde, A. and Dashora, L., 2019. Mapping public transport accessibility levels (PTAL) in India and its applications: A case study of Surat. *Case Studies on Transport Policy*, 7(2), pp.293-300

Rahman, M., Yasmin, S. and Eluru, N., 2019. Examining determinants of rail ridership: a case study of the Orlando SunRail system. *Transportation Planning and Technology*, 42(6), pp.587-605

Rahman, M., Yasmin, S. and Eluru, N., 2019. Controlling for endogeneity between bus headway and bus ridership: A case study of the Orlando region. *Transport Policy*, 81, pp.208-219

Rahman, M., Yasmin, S. and Eluru, N., 2020. A joint panel binary logit and fractional split model for converting route-level transit ridership data to stop-level boarding and alighting data. *Transportation Research Part A: Policy and Practice*, 139, pp.1-16

Vasudevan, V., Agarwala, R. and Dash, S., 2021. Is vehicle ownership in urban india influenced by the availability of high quality dedicated public transit systems?. *IATSS research*, 45(3), pp.286-292

PAPERS (CHRONOLOGICAL ORDER)

Deepa, L., Pinjari, A.R., Nirmale, S.K., Srinivasan, K.K. and Rambha, T., 2022. A direct demand model for bus transit ridership in Bengaluru, India. *Transportation Research Part A: Policy and Practice*, 163, pp.126-147

Erhardt, G.D., Hoque, J.M., Goyal, V., Berrebi, S., Brakewood, C. and Watkins, K.E., 2022. Why has public transit ridership declined in the United States?. *Transportation research part A: policy and practice*, 161, pp.68-87

Deepa, L., Mondal, A., Raman, A., Pinjari, A.R., Bhat, C.R., Srinivasan, K.K., Pendyala, R.M. and Ramadurai, G., 2022. An analysis of individuals' usage of bus transit in Bengaluru, India: Disentangling the influence of unfamiliarity with transit from that of subjective perceptions of service quality. *Travel Behaviour and Society*, 29, pp.1-11

Deepa, L., Pinjari, A.R., Nirmale, S.K., Biswas, M. and Srinivasan, K.K., 2023. The adverse impact of headway variability on bus transit ridership: Evidence from Bengaluru, India. *Transport Policy*, 141, pp.343-356