

# Yue YANG

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## Research Interests

Shared and on-demand transport services; connected and autonomous vehicles; Large Language Models.

## Education

- 2021–2024 Ph.D., Transportation (Operation Research), The University of Sydney  
Thesis Title: Management and operation of the supply side in ride-hailing platforms  
Supervisor: Associate Professor [Mohsen Ramezani](#)
- 2017–2020 M.Sc., Transportation (Operation Research), Beihang University
- 2012–2016 B.Sc., Industrial Engineering, University of Science and Technology Beijing

## Appointments

- 2025–now Postdoctoral Research Fellow, New York University Abu Dhabi  
Principal Investigator: Professor [Elisabetta Cherchi](#)
- 2018–2020 Research scientist, The Marketplace simulation team, Didi Chuxing

## Publications

### Working papers

2. **Yang, Y.**, Cherchi, E. (2025). Large language models empowered agent-based simulation for emergent dynamics of electric vehicle adoption
1. **Yang, Y.**, Sipetas, C., Gao, Y. (2025). Human-in-the-Loop Deep Q-Learning with LLM-Based Driving Coaches for Autonomous Highway Driving.

### Under-review papers

3. **Yang, Y.**, & Ramezani, M. (2024). The intraday competition in a duopoly ride-hailing market. Under the 1st round of review of Transportation Research Part C.
3. **Yang, Y.**, Ali, S., Ahmadi, S., & Ramezani, M. (2024). On-demand electric shuttles as feeders in the multimodal transport system. Under the 1st round of review of Transportation Research Part E.
1. **Yang, Y.**, Renssen, A., & Ramezani, M. (2024). Dynamic on-demand delivery with spatial divisions of labor. Under the 2nd round of review of Transportation Research Part C.

## Journals

5. **Yang, Y.**, Umboh, W., & Ramezani, M. (2024). Freelance drivers with a decline choice: dispatch menus in on-demand mobility services for assortment optimization. *Transportation Research Part B*, 190, 103082. DOI: [10.1016/j.trb.2024.103082](https://doi.org/10.1016/j.trb.2024.103082). Video: [YouTube source](#)
4. **Yang, Y.**, & Ramezani, M. (2022). A learning method for real-time repositioning in E-hailing services. *IEEE Transactions on Intelligent Transportation Systems*, 24(2), 1644-1654. DOI: [10.1109/TITS.2022.3219381](https://doi.org/10.1109/TITS.2022.3219381). Video: [YouTube source](#)
3. Ramezani, M., **Yang, Y.**, Elmasry, J., & Tang, P. (2023). An empirical study on characteristics of supply in e-hailing markets: a clustering approach. *Transportation Letters*, 15(7), 645-658. DOI: [10.1080/19427867.2022.2079869](https://doi.org/10.1080/19427867.2022.2079869). Video: [YouTube source](#)
2. **Yang, Y.**, Tian, Q., & Wang, Y. (2020). Who is more likely to get a ride and where is easier to be picked up in ride-sharing mode?. *Journal of Management Science and Engineering*, 5(4), 264-286. DOI: [10.1016/j.jmse.2020.09.003](https://doi.org/10.1016/j.jmse.2020.09.003).

## Conferences

11. Jiao, G., **Yang, Y.**, & Ramezani, M. (2025 June). On the Joint Effects of Supply and Demand Multi-homing in the e-hailing Market. *TRISTAN XI, The 12th Triennial Symposium on Transportation Analysis*, Okinawa, Japan. Oral presentation.
10. **Yang, Y.**, & Ramezani, M. (2025 June). The intraday competition in a duopoly ride-hailing market. *TRISTAN XI, The 12th Triennial Symposium on Transportation Analysis*, Okinawa, Japan. Oral presentation.
9. **Yang, Y.**, & Ramezani, M. (2024 January). Winning the intraday competition in duopoly ride-hailing markets: joint pricing and matching optimization. The 103rd Annual Meeting of the Transportation Research Board, Washington D.C. Oral presentation.
8. **Yang, Y.**, Renssen, A., & Ramezani, M. (2023 December). Multi-hop driver-parcel matching with dynamic network partitioning: When is it more beneficial to split trips in on-demand logistics services? The 27th HKSTS International Conference, Hong Kong. Oral presentation.
7. **Yang, Y.**, Renssen, A., & Ramezani, M. (2023 November). Multi-hop on-demand courier-parcel delivery through spatial division of labor. *TRANSW Symposium 2023*. Sydney, Australia. Oral presentation.
6. **Yang, Y.**, Renssen, A., & Ramezani, M. (2023 September). Multi-hop on-demand courier-parcel delivery through spatial division of labor. Engineering HDR student conference. Sydney, Australia. Oral presentation.
5. **Yang, Y.**, Umboh, W., & Ramezani, M. (2023 January). Suppliers' Ride Acceptance Behavior in On-Demand Mobility Services: Personalized Menu Assortment Optimization. The 102nd Annual Meeting of the Transportation Research Board, Washington D.C. Oral presentation.
4. **Yang, Y.**, & Ramezani, M. (2023 January). Where is the best place for vacant vehicles to find a passenger in e-Hailing systems? An integrated approach considering real-time priority and long-run benefits. The 102nd Annual Meeting of the Transportation Research Board, Washington D.C. Oral presentation.

3. **Yang, Y.** & Ramezani, M. (2022 November). Beat the competitor in a duopoly ride-hailing market: joint matching, pricing, and waging optimization. TRANSW Symposium 2022. Sydney, Australia. Oral presentation.
2. **Yang, Y.**, & Ramezani, M. (2022 June). Addressing supply and demand heterogeneity: Trip order menus in Ride-hailing platforms. *TRISTAN XI, The 11th Triennial Symposium on Transportation Analysis*, Mauritius Island. Oral presentation.
1. **Yang, Y.**, & Ramezani, M. (2021 November). Addressing supply and demand heterogeneity: Trip order menus in point-to-point transport platforms. TRANSW Virtual Symposium 2021. Oral presentation.

## Teaching Assistant

2022–2023    CIVL2700, Transport Systems                      The University of Sydney

## Supervision

2023        Alden Ronaldo Christopher, Undergraduate Student                      The University of Sydney

## Honours and Awards

- 2024        Faculty of Engineering Career Advancement Award, The University of Sydney, Sydney, Australia.
- 2023        People’s choice award, Engineering HDR student conference, The University of Sydney, Sydney, Australia.
- 2022        Best Oral Presentations, TRANSW Symposium 2022, Sydney, Australia.
- 2019        Best paper award, 11th International Workshop on Computational Transportation Science (CTS), Tianjin, China.
- 2017        [Top 15 Team](#), Asia of Maritime Logistics Hackathon 2017, Hong Kong.

## Academic Services

- Reviewer, Transportation Letters
- Reviewer, Transportmetrica B
- Reviewer, Transportation Research Part A/B/C
- Reviewer, IEEE Transactions on Intelligent Transportation Systems
- Reviewer, IET Intelligent Transport Systems
- Reviewer, 45th Australasian Transport Research Forum (ATRF) Conference, 2024.
- Reviewer, 8th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), 2023.
- Reviewer, 11th-12th Symposium of the European Association for Research in Transportation (hEART), 2023–2024.