YUKI OYAMA

PERSONAL DATA

NAME: Yuki Oyama

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WORK EXPERIENCE

since 04/2024	Associate Professor
	The University of Tokyo
04/2021-03/2024	Associate Professor
	Shibaura Institute of Technology
04/2020-03/2021	Assistant Professor
	Shibaura Institute of Technology
10/2019-03/2020	Project Assistant Professor
	Research Center for Advanced Science and Technology, The University of Tokyo
10/2017-09/2019	Research and Teaching Associate
	Transport and Mobility Laboratory (TRANSP-OR), École Polytechnique Fédérale
	de Lausanne (EPFL)
04/2017-09/2017	Research Fellow (PD)
	Japan Society for the Promotion of Science (JSPS), Tokyo Institute of Technology
04/2014-03/2017	Research Fellow (DC1)
	Japan Society for the Promotion of Science (JSPS), The University of Tokyo

VISITING RESEARCHER

since 04/2022	Visiting Associate Professor
	Ehime University, Urban Design Center Matsuyama
since 04/2020	Senior Visiting Researcher
	Research Center for Advanced Science and Technology, The University of Tokyo
11/2016-03/2017	Visiting Scholor
	Transport and Mobility Laboratory (TRANSP-OR), École Polytechnique Fédérale
	de Lausanne (EPFL)
05/2014-03/2015	Visiting Researcher
	Ehime University, Urban Design Center Matsuyama

SCIENTIFIC EDUCATION

03/2017	Ph.D in Engineering
	Behavior in Networks Studies Unit (Supervisor: Eiji Hato)
	Department of Urban Engineering, The University of Tokyo
03/2014	M.Sc. in Engineering
	Behavior in Networks Studies Unit (Supervisor: Eiji Hato)
	Department of Urban Engineering, The University of Tokyo
03/2012	B.Sc. IN ENGINEERING
	Environmental Design Laboratory (Supervisor: Mikiko Ishikawa)
	Department of Urban Engineering, The University of Tokyo

PEER-REVIEWED JOURNAL PAPERS

(*: Corresponding author; # Students supervised by me.)

International Journal Papers

- Akamatsu, T.*, Oyama, Y.* (2024) A fluid-particle decomposition approach to matching market design for crowdsourced delivery systems. *Transportation Research Part C: Emerging Technologies* 166: 104738.
- 2. **Oyama**, **Y**.*, Murakami, D., Krueger, R. (2024) A hierarchical Bayesian logit model for spatial multivariate choice data. *Journal of Choice Modelling* **52**: 100503.
- 3. **Oyama**, **Y**.*, Murakami, S., Chikaraishi, M., Parady, G. (2024) Designing pedestrian zones within city center networks considering policy objective trade-offs. *Transportation Research Part A: Policy and Practice* **185**: 104119.
- 4. **Oyama**, **Y**.* (2024) Spatial city image and its formative factors: A street-based neighborhood cognition analysis. *Cities* **149**: 104898.
- 5. **Oyama**, **Y**.* (2024) Global path preference and local response: A reward decomposition approach for network path choice analysis in the presence of visually perceived attributes. *Transportation Research Part A: Policy and Practice* **181**: 103998.
- 6. **Oyama**, Y.*, Fukuda, D., Imura, N., Nishinari, K. (2024) Do people really want fast and precisely scheduled delivery? E-commerce customers' valuations of home delivery timing. *Journal of Retailing and Consumer Services* 78: 103711.
- 7. Parady, G.*, Oyama, Y., Chikaraishi, M. (2023) Text-aided Group Decision-making Process Observation Method (x-GDP): A novel methodology for observing the joint decision-making process of travel choices. *Transportation*.
- 8. **Oyama**, Y.* (2023) Capturing positive network attributes during the estimation of recursive logit models: A prism-based approach. *Transportation Research Part C: Emerging Technologies* 147: 104014.
- 9. Parady, G.*, Suzuki, K., **Oyama, Y.**, Chikaraishi, M. (2023) Activity detection with Google Maps Location History data: factors affecting joint activity detection probability and its potential application on real social networks. *Travel Behaviour and Society* **30**: 344-357.
- Oyama, Y.*, Hara, Y.*, Akamatsu, T.* (2022) Markovian traffic equilibrium assignment based on network generalized extreme value model. *Transportation Research Part B: Methodological* 155: 135-159.
- 11. **Oyama, Y.***, Hato, E. (2019) Prism-based path set restriction for solving Markovian traffic assignment problem. *Transportation Research Part B: Methodological* **122**: 528-546.
- 12. **Oyama, Y.***, Hato, E. (2018) Link-based measurement model to estimate route choice parameters in urban pedestrian networks. *Transportation Research Part C: Emerging Technologies* **93**: 62-78.
- 13. **Oyama, Y.***, Hato, E. (2017) A discounted recursive logit model for dynamic gridlock network analysis. *Transportation Research Part C: Emerging Technologies* **85**: 509-527.

National Journal Papers (in Japanese)

- 14. Tojo, T.*, **Oyama, Y.*** (2022) A deep learning model for building type estimation based on building names. *Journal of the City Planning Institute of Japan* **57**(3): 1025-1032. (in Japanese)
- 15. Matsumura, K.*, **Oyama**, Y.* (2022) Efficiency analysis of a capacitated MaaS system focusing on different payment schemes. *Journal of the City Planning Institute of Japan* **57**(3): 666-673. (in Japanese)
- 16. Murakami, S.*, **Oyama, Y.*** (2022) Optimal location of pedestrian streets based on a multimodal equilibrium assignment model. *Journal of the City Planning Institute of Japan* **57**(3): 622-629. (in Japanese)
- 17. Ikegami, T.*, **Oyama, Y.*** (2021) Proposal of an activity-based elderly mobility index focusing on public transportation convenience. *Journal of the City Planning Institute of Japan* **56**(3): 563-570. (in Japanese)
- 18. **Oyama, Y.***, Hato, E. (2017) Structural estimation for route choice models considering link specificity of measurement error variances. Journal of Japan Society of Civil Engineers, Ser. D3 (Infrastructure Planning and Management) 73(5): I_597-I_608 (in Japanese).
- 19. **Oyama, Y.***, Hato, E. (2017) Stochastic assignment in time-structured networks. Journal of Japan Society of Civil Engineers, Ser. D3 (Infrastructure Planning and Management) 73(4): 186-200 (in Japanese).

- 20. **Oyama**, Y.*, Hato, E. (2017) Pedestrian activity-based network design based on multi-objective programming. Journal of the City Planning Institute of Japan 52(3): 810-817 (in Japanese).
- 21. **Oyama, Y.**, Hato, E.* (2017) Route choice analysis in a disaster network using generalized recursive logit model. JSTE Journal of Traffic Engineering 3(5): 1-10 (in Japanese).
- 22. **Oyama, Y.***, Hato, E. (2016) Pedestrian activity assignment problem with time-space constraint and path correlation. Journal of the City Planning Institute of Japan 51(3): 680-687 (in Japanese).
- 23. **Oyama, Y.***, Fukuyama, S., Hato, E. (2014) A study on mechanisms of short trip generations using discrete-continuous model based on activity-needs. Journal of the City Planning Institute of Japan 49(3): 375-380 (in Japanese).
- 24. **Oyama, Y.**, Hato, E.* (2013) Move-stay choice model using Voronoi-based overlay networks. Journal of the City Planning Institute of Japan 48(3): 1107-1112 (in Japanese).
- 25. **Oyama, Y.**, Hato, E.* (2012) Route choice model based on continuity of streetscapes. Journal of the City Planning Institute of Japan 47(3): 643-648 (in Japanese).

PEER-REVIEWED INTERNATIONAL CONFERENCES

- 1. Kizaki, R., **Oyama, Y.**, Terabe, S., Suzuki, Y., Yaginuma, H. (2024) Evaluation of street space development based on a pedestrian route choice model considering street landscape. The 17th International Conference on Travel Behaviour research (IATBR), Wien, Austria.
- 2. Safitri, N.D., **Oyama, Y.**, Chikaraishi, M. (2024) How random is route choice behavior during disaster? Inverse estimation of perceived travel time using a recursive logit model with structured variance. The 17th International Conference on Travel Behaviour research (IATBR), Wien, Austria.
- 3. Fujiwara, K., **Oyama, Y.**, Chikaraishi, M., Fujiwara, A. (2024) Pedestrian behavior modeling representing competitive nature between movers and stayers in urban public space: A numerical simulation. The 17th International Conference on Travel Behaviour Research (IATBR), Wien, Austria
- 4. Parady, G., Oyama, Y., Chikaraishi, M. (2024) Text-aided modelling of group decision-making processes: An application to eating-out destination choice. The 17th International Conference on Travel Behaviour Research (IATBR), Wien, Austria.
- 5. **Oyama, Y.** (2024) A link-based route choice model with decomposed reward functions: An application to walkability analysis. The 17th International Conference on Travel Behaviour research (IATBR), Wien, Austria.
- 6. **Oyama, Y.**, Murakami, S.*, Parady, G., Chikaraishi, M. (2024) Designing Pedestrian Zones within City Center Networks Considering Policy Objective Trade-offs. Transportation Research Board (TRB) Annual Meeting 2024, Washington D.C., US.
- 7. Parady, G., Chikaraishi, M., **Oyama, Y.** (2024) A Walker's Paradise ain't a Driver's Hell: Evaluating the Causal Effect of Temporary Road Pedestrianization on Traffic Conditions of Surrounding Roads. Transportation Research Board (TRB) Annual Meeting 2024, Washington D.C., US.
- 8. Okazaki, R.*, **Oyama, Y.**, Imura, N., Nishinari, K. (2023) Day-to-day delivery demand management: Evaluation based on routing efficiency and customer satisfaction. The 11th symposium arranged by European Association for Research in Transportation (hEART), Zurich, Switzerland.
- 9. Parady, G., **Oyama**, Y., Chikaraishi, M. (2023) Text-aided Group Decision-making Process Observation Method (x-GDP): A novel methodology for observing the joint decision-making process of travel choices. The 11th symposium arranged by European Association for Research in Transportation (hEART), Zurich, Switzerland.
- 10. Fujiwara, K., Oyama, Y., Chikaraishi, M., Fujiwara, A. (2023) A pedestrian model capturing trade-offs between travel and place functions of urban street space: An illustrative numerical example. The 15th International Conference of the Eastern Asia Society for Transportation Studies (EASTS 2023), Shah Alam, Malaysia.
- 11. Okazaki, R.*, **Oyama, Y.**, Imura, N., Nishinari, K. (2023) Evaluation of choice-based demand management strategies for day-to-day delivery planning. The 5th Bridging Transport Researchers (BTR5) conference, online.
- 12. Murakami, S.*, Oyama, Y. (2023) Multimodal network design for the optimal placement of pedestrian streets in an urban congested network. The 18th International Conference on Computational Urban Planning and Urban Management (CUPUM), Montreal, Canada.

- 13. **Oyama, Y.** (2022) A prism-constrained recursive logit model to analyze positive utilities in pedestrian route choice behavior. The 16th International Conference on Travel Behaviour research (IATBR), Santiago, Chile.
- 14. Parady, G., **Oyama, Y.**, Chikaraishi, M. (2022) Understanding the joint decision-making process of leisure destination choices: Exploring new methodologies. The 16th International Conference on Travel Behaviour research (IATBR), Santiago, Chile.
- 15. **Oyama, Y.**, Scarinci, R., Bierlaire, M. (2018) Optimal capacity location problem of parking and accelerated moving walkways to design a car-free city center. The 7th symposium arranged by European Association for Research in Transportation (hEART), Athens, Greece.
- 16. **Oyama, Y.**, Hato, E., Scarinci, R., Bierlaire, M. (2017) Markov assignment for a pedestrian activity-based network design problem. The 6th symposium arranged by European Association for Research in Transportation (hEART), Haifa, Israel.
- 17. **Oyama**, Y., Hato, E. (2016) Pedestrian activity model based on implicit path enumeration. Proceedings of the 21st International Conference of Hong Kong for Transportation Studies (HKSTS), pp.331-338.
- 18. **Oyama, Y.**, Hato, E. (2016) A link-based map matching algorithm with structural estimation method. The 5th symposium arranged by European Association for Research in Transportation (hEART), Delft, Netherland.
- 19. **Oyama, Y.**, Hato, E. (2016) Incorporating destination choices into microscopic land-use dynamics modeling using longitudinal data. The 9th Triennial Symposium on Transportation Analysis (TRISTAN), Oranjestad, Aruba.
- 20. **Oyama, Y.**, Chikamatsu, K., Shoji, Y., Hato, E., Koga, M. (2016) Trajectory-oriented traffic management using sequential discount rate: a case study of the Great East Japan Earthquake. The 11th ITS European Congress (ERTICO), Glasgow, Scotland.
- 21. **Oyama, Y.**, Hato, E. (2015) Incorporating context-dependent energy into the pedestrian dynamic scheduling model with GPS data. The 14th International Conference on Travel Behaviour research (IATBR), Windsor, England.
- 22. Kokubun, A., Hato, E., **Oyama, Y.** (2013) Modeling Transformation in Neighborhood with Urban Redevelopment in Built-up Area of Tokyo Incorporating Effect of Interaction. Proceedings of International Conference on Computers in Urban Planning and Urban Management (CUPUM), Utrecht, Netherland.
- 23. **Oyama, Y.**, Hato, E. (2013) Mobility Design: Incorporating "Private" Public Space onto the Street for the City Conversion. Proceedings of 5th International Congress of International Association of Societies of Design Research (IASDR), pp.3235-3244.

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