

YUKI OYAMA

PERSONAL DATA

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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 Scholar 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.)

Oyama, Y.* (2024) Spatial city image and its formative factors: A street-based neighborhood cognition analysis. *Cities* 149: 104898.

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.

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.

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*.

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.

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.

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)

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)

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)

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)

Oyama, Y.*, Hato, E. (2019) Prism-based path set restriction for solving Markovian traffic assignment problem. *Transportation Research Part B: Methodological* 122: 528-546.

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.

Oyama, Y.*, Hato, E. (2017) A discounted recursive logit model for dynamic gridlock network analysis. *Transportation Research Part C: Emerging Technologies* 85: 509-527.

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): 1_597-1_608 (in Japanese).

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).

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).

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).

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).

Oyama, Y.*, Fukuyama, S., Hato, E. (2014) A study on mechanism 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).

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).

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

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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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