

# YUKI OYAMA

## PERSONAL DATA

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## WORK EXPERIENCE

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

## VISITING RESEARCHER

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

## SCIENTIFIC EDUCATION

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

## PEER-REVIEWED JOURNAL PAPERS

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

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

- 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

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**Oyama, Y.**, Murakami, S.<sup>#</sup>, Parady, G., Chikaraishi, M. (2023) 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.** (2023) 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.<sup>#</sup>, **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.<sup>#</sup>, **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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