

YUKI OYAMA

PERSONAL DATA

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WORK EXPERIENCE

since 04/2021	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 (RCAST), 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

SCIENTIFIC EDUCATION

03/2017	PH.D IN ENGINEERING Department of Urban Engineering, The University of Tokyo
03/2014	M.SC. IN ENGINEERING Department of Urban Engineering, The University of Tokyo
03/2012	B.SC. IN ENGINEERING Department of Urban Engineering, The University of Tokyo

PEER-REVIEWED JOURNAL PAPERS

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

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. [Impact factor (2021): 9.022; SJR (2021): 3.211; Quartile: Q1]

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. [Impact factor (2021): 5.905; SJR (2021): 2.148; Quartile: Q1]

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. [Impact factor (2021): 7.632; SJR (2021): 3.373; Quartile: Q1]

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 equi-](#)

- [librium 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. [Impact factor (2021): 7.632; SJR (2021): 3.373; Quartile: Q1]
- 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. [Impact factor (2021): 9.022; SJR (2021): 3.211; Quartile: Q1]
- Oyama, Y.*, Hato, E. (2017) [A discounted recursive logit model for dynamic gridlock network analysis](#). *Transportation Research Part C: Emerging Technologies* 85: 509-527. [Impact factor (2021): 9.022; SJR (2021): 3.211; Quartile: Q1]
- 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. (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, Netherlands.

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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