# Yuki Oyama

## Personal Data


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## Work Experience

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

## Visiting Researcher

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

## Scientific Education

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|---|---|
| 03/2017 | Ph.D in Engineering<br>Behavior in Networks Studies Unit (Supervisor: Eiji Hato)<br>Department of Urban Engineering, The University of Tokyo |
| 03/2014 | M.Sc. in Engineering<br>Behavior in Networks Studies Unit (Supervisor: Eiji Hato)<br>Department of Urban Engineering, The University of Tokyo |
| 03/2012 | B.Sc. in Engineering<br>Environmental Design Laboratory (Supervisor: Mikiko Ishikawa)<br>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 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. [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): I_597-I_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, 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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