

HARU TERASHIMA

✉ haru@ucl.nuee.nagoya-u.ac.jp | 📍 Nagoya, Aichi, Japan

Ph.D. student at Nagoya University specializing in Urban Computing,
with a focus on Human Mobility and Machine Learning.

EDUCATION

Nagoya University Apr. 2026 – Present
Ph.D. Student, Dept. of Information and Communication Engineering
Supervisor: Nobuo Kawaguchi and Takuro Yonezawa
Nagoya, Japan

Nagoya University Apr. 2024 – Mar. 2026
Master of Engineering, Dept. of Information and Communication Engineering
Supervisor: Nobuo Kawaguchi and Takuro Yonezawa
Nagoya, Japan

Nagoya University Apr. 2020 – Mar. 2024
Bachelor of Engineering, Dept. of Electrical, Electronics, and Information Engineering
Supervisor: Nobuo Kawaguchi and Takuro Yonezawa
Nagoya, Japan

EXPERIENCE

TMI WISE Program May 2024 – Present
Doctoral program at Institutes of Innovation for Future Society, Nagoya University
Nagoya, Japan

GRANTS AND FELLOWSHIPS

Make New Standards Program for the Next Generation Researchers Apr. 2026 – Present
JST Support for Pioneering Research Initiated by the Next Generation (SPRING)
Nagoya University

TMI WISE Program May 2024 – Present
MEXT Doctoral Program for World-leading Innovative & Smart Education (WISE)
Nagoya University

AWARDS

International

- **3rd Prize**, ACM SIGSPATIAL GISCUPE 2025 (Human Mobility Prediction Challenge 2025) *Nov. 2025*
- **1st Prize**, Human Mobility Prediction Challenge 2024 (ACM SIGSPATIAL WS) *Oct. 2024*
- **1st Prize**, Human Mobility Prediction Challenge 2023 (ACM SIGSPATIAL WS) *Nov. 2023*

Domestic

- QE1 Outstanding Performance Award, TMI WISE Program, Nagoya University *Mar. 2026*
- Outstanding Presentation Award, Master's Interim Presentation, Nagoya University *Feb. 2025*
- Best Paper Award, 84th IPSJ SIG-UBI *Nov. 2024*
- Best Paper Award, 112th IPSJ SIG-MBL *Sep. 2024*
- Outstanding Presentation Award, DICOMO Symposium 2024 *Jun. 2024*
- Encouragement Award, 111th IPSJ SIG-MBL *May 2024*
- 3rd Place, Japan Automotive AI Challenge 2023 Integration *Nov. 2023*

PUBLICATIONS

Journal

- **H. Terashima**, N. Tamura, K. Shoji, T. Hossain, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “CLIFT: Cross-City Mobility-Derived Lifestyle Pattern Transfer for Improved Multi-City Next Location Prediction,” *ACM Transactions on Spatial Algorithms and Systems*, 2026
- N. Tamura, N. Tillayeva, **H. Terashima**, K. Shoji, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Additive Compositionality in Urban Area Embeddings Based on Human Mobility Patterns,” *ACM Transactions on Spatial Algorithms and Systems*, 2026
- 寺島青, 田村直樹, 庄子之和, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “NSP-BERT: 滞在履歴の長期的依存関係を考慮した効率的な滞在予測手法,” 情報処理学会論文誌, 2026
- K. Shoji, **H. Terashima**, N. Tamura, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Life Pattern-Based Human Attribute Estimation Using Only GPS Data,” *IEEE ACCESS*, 2025

International Conference

- **H. Terashima**, N. Tamura, K. Shoji, K. Urano, T. Yonezawa, N. Kawaguchi, “Multi-City Next Location Prediction through Mobility-Derived Multi-Pattern Transfer Learning,” *ACM SIGSPATIAL GISCUPE*, 2025
- N. Tillayeva, **H. Terashima**, N. Tamura, K. Shoji, T. Hossain, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Discovering Emerging Urban Hotspots Using Satellite Imagery and Human Mobility Data,” *HCI International*, 2025
- N. Tamura, **H. Terashima**, K. Shoji, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Additive Compositionality in Urban Area Embeddings Based on Human Mobility Patterns,” *ACM SIGSPATIAL*, 2024
- K. Shoji, **H. Terashima**, N. Tamura, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Unveiling Human Attributes through Life Pattern Clustering using GPS Data Only,” *ACM SIGSPATIAL*, 2024
- **H. Terashima**, S. Takagi, N. Tamura, K. Shoji, T. Hossain, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Time-series Stay Frequency for Multi-City Next Location Prediction using Multiple BERTs,” *ACM SIGSPATIAL 2nd HuMob Challenge Workshop*, 2024
- **H. Terashima**, N. Tamura, K. Shoji, S. Katayama, K. Urano, T. Yonezawa, N. Kawaguchi, “Human Mobility Prediction Challenge: Next Location Prediction using Spatiotemporal BERT,” *ACM SIGSPATIAL 1st HuMob Challenge Workshop*, 2023

Domestic Conference

- 田村直樹, 寺島青, 庄子之和, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “共通潜在空間を介した多様な都市エリアデータのクロスモーダル変換手法,” 第 84 回 *IPSJ SIG-UBI* 研究会, 2024
- 寺島青, 高木峻, 田村直樹, 庄子之和, Tahera Hossain, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “時系列滞在頻度傾向と移動傾向を組み合わせた移動先予測手法,” 第 84 回 *IPSJ SIG-UBI* 研究会, 2024
- 庄子之和, 寺島青, 田村直樹, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “DiverCityMeter: 大規模移動データによる生活パターン分析を通じた都市空間の多様性算出手法,” 第 112 回 *IPSJ SIG-MBL* 研究会, 2024
- 寺島青, 田村直樹, 庄子之和, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “NSP-BERT: 滞在時間を考慮に入れた効率的な Next Stay 予測手法,” *DICOMO* シンポジウム, 2024
- 寺島青, 田村直樹, 庄子之和, 片山晋, 浦野健太, 米澤拓郎, 河口信夫, “BERT に基づく都市における移動エリア予測手法の提案,” 第 111 回 *IPSJ SIG-MBL* 研究会, 2024