Curriculum Vitae

Satoshi Miyazawa

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PROFESSIONAL EXPERIENCE

March 2025 -
Senior Solution Engineer, Business Group, Consulting Division, LocationMind Inc., Tokyo, Japan

- Leading development of Geospatial AI Solutions

January 2023 - March 2025
Product Manager, Strategic Initiatives Div, LocationMind Inc., Tokyo, Japan

- Managing Geospatial AI SaaS products (e.g. LocationMind xPop, Smart Planning tools)

July 2021 - December 2022
Business Development (lead), International Division, LocationMind Inc., Tokyo, Japan

- Led projects to deliver geospatial solutions (mobile big data, IoT, and satellite intelligence) to customers worldwide

April 2020 - June 2021
Engineer, Technology Department

- Led projects for human mobility modeling and analysis using mobile phone trajectory data
- Co-led the SaaS product using aggregated mobility data
- Led the development of human mobility indicators for national and regional governments
- Automated the ETL pipeline for publishing COVID-19 related reports on a website maintained by the national government (corona.go.jp)
- Published deliverables:
    - https://www.covid19-ai.jp/en-us/organization/csis/articles/article002
    - https://corona.go.jp/dashboard/

February 2018 - March 2020
Project Consultant, Asian Development Bank Institute, Tokyo, Japan

- Geospatial modeling of the spillover effect of high-speed rail infrastructure development
    - Geospatial analysis
    - Difference-in-difference model

November 2017 - March 2020
Project Researcher, Center for Spatial Information Science (CSIS), the University of Tokyo, Tokyo, Japan

- Big data analysis on city-scale mobile phone GPS trajectory.
- Extraction of urban QOL indicators from GPS trajectories.

September 2015 - October 2017
Engineer, Nightley Inc., Tokyo, Japan
- Big data analysis on geo-tagged SNS for inbound tourism analysis.
- Development of machine-learning backend API

April 2015 - September 2017
Assistant Technical Staff, Institute of Industrial Science (IIS), the University of Tokyo, Tokyo, Japan

June 2016 - September 2017
Research Assistant, Center for Spatial Information Science (CSIS), the University of Tokyo, Tokyo, Japan

July 2014 - August 2014
General Associate, National Consortium for the Study of Terrorism and Responses to Terrorism (START), College Park, MD
- Modeling and analyzing the possible human trafficking routes in the Arizona-Mexico border, including non-traditional transportation.

November 2013 - May 2014
General Associate, National Consortium for the Study of Terrorism and Responses to Terrorism (START), College Park, MD

May 2013 - August 2013
GIS Analytical Project Intern, National Consortium for the Study of Terrorism and Responses to Terrorism (START), College Park, MD

PUBLICATIONS
- Maneepong, K., Yamanotera, R., Akiyama, Y., Miyazaki, H., Miyazawa, S., & Akiyama, C. M. (2025). Towards High-Resolution Population Mapping: Leveraging Open Data, Remote Sensing, and AI for Geospatial Analysis in Developing Country Cities—A Case Study of Bangkok. Remote Sensing, 17(7), 1204. https://doi.org/10.3390/rs17071204
- Maneepong, K., Yamanotera, R., Akiyama, Y., Miyazaki, H., Miyazawa, S., & Akiyama, C. M. (2024). Open Data-Driven 3D Building Models for Micro-Population Mapping in a Data-Limited Setting. *Remote Sensing*, *16*(21), 3922. https://doi.org/10.3390/rs16213922
- Kawakami, Y., Nojiri, S., Nakamoto, D., Irie, Y., Miyazawa, S., Kuroki, M., & Nishizaki, Y. (2023). Novel indicator for the spread of new coronavirus disease 2019 and its association with human mobility in Japan. Scientific Reports, 13(1), 115. https://doi.org/10.1038/s41598-022-27322-4
- Okada, K., Nishiyama, N., Akiyama, Y., Miyazaki, H., & Miyazawa, S. (2022). DEVELOPMENT OF DETAILED BUILDING DISTRIBUTION MAP TO SUPPORT SMART CITY PROMOTION -AN APPROACH USING SATELLITE IMAGE AND DEEP

LEARNING–. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, X-4/W3-2022, 189–196. https://doi.org/10.5194/isprs-annals-X-4-W3-2022-189-2022

- Nakamoto, D., Nojiri, S., Taguchi, C., Kawakami, Y., Miyazawa, S., Kuroki, M., & Nishizaki, Y. (2022). The impact of declaring the state of emergency on human mobility during COVID-19 pandemic in Japan. Clinical Epidemiology and Global Health, 17, 101149. https://doi.org/10.1016/j.cegh.2022.101149
- Kanamori, Rie, Yuta Kawakami, Shuko Nojiri, Satoshi Miyazawa, Manabu Kuroki, and Yuji Nishizaki. 2022. “Changes in Social Environment Due to the State of Emergency and Go To Campaign during the COVID-19 Pandemic in Japan: An Ecological Study.” Edited by Michele Tizzoni. PLOS ONE 17 (4): e0267395. https://doi.org/10.1371/journal.pone.0267395.
- Nakanishi, Miharu, Ryosuke Shibasaki, Syudo Yamasaki, Satoshi Miyazawa, Satoshi Usami, Hiroshi Nishiura, and Atsushi Nishida. 2021. “COVID-19 and On-Site Dining in Tokyo: A Time-Series Analysis Using Mobile Phone Location Data (Preprint).” JMIR MHealth and UHealth, January. https://doi.org/10.2196/27342.
- Miyazawa, S., Song, X., Jiang, R., Fan, Z., Shibasaki, R., and Sato, T.: CITY-SCALE HUMAN MOBILITY PREDICTION MODEL BY INTEGRATING GNSS TRAJECTORIES AND SNS DATA USING LONG SHORT-TERM MEMORY, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., V-4-2020, 87–94, https://doi.org/10.5194/isprs-annals-V-4-2020-87-2020, 2020.
- Ayumi Arai, Apichon Witayangkurn, Hiroshi Kanasugi, Zipei Fan, Wataru Ohira, Silvino Pedro Cumbane, Satoshi Miyazawa, Saurav Ranjit, Mohamed Batran, and Ryosuke Shibasaki. (2020). Building a data ecosystem for using telecom data to inform the COVID-19 response efforts. Presented at the Data for Policy, Zenodo. http://doi.org/10.5281/zenodo.4291329
- Tianqi Xia, Satoshi Miyazawa, Xuan Song, Yuki Akiyama, Renhe Jiang, Kyoung-sook Kim and Ryosuke Shibasaki (2019) ‘Mining heatstroke hotspot for inbound tourists in Tokyo’ The symposium of the International Association of Geo-informatics (IAG'i).
- Satoshi Miyazawa, Ryosuke Kobayashi, Yuki Akiyama and Ryosuke Shibasaki (2019) 'Extracting Urban Mobility QoL Indicators and Individual Activity Pattern from Mobile Phone-based Human Mobility Trajectories', The symposium of the International Association of Geo-informatics (IAG'i).
- Ryosuke Kobayashi, Satoshi Miyazawa, Yuki Akiyama, and Ryosuke Shibasaki. (2019) 'Identification of the Homes, Offices, and Schools from Long-Interval Mobile Phone Big Data Using Mobility Pattern Clustering'. In P. Kyriakidis, D. Hadjimitsis, D. Skarlatos, & A. Mansourian (Eds.), Accepted Short Papers and Posters from the 22nd AGILE Conference on Geo-information Science (pp. 1–5). Limassol, Cyprus: Stichting AGILE.
- KE Seetha Ram and Satoshi Miyazawa. (2019) 'Unlocking the spillover effect of Infrastructure and improving quality of life : new insights for private sector investment in developing countries in Asia'. In Proceedings of the 8th Civil Engineering Conference in the Asian Region (CECAR).
- Satoshi Miyazawa, Xuan Song, Tianqi Xia, Ryosuke Shibasaki, and Hodaka Kaneda. (2019) ‘Integrating GPS trajectory and topics from Twitter stream for human mobility estimation’, Frontiers of Computer Science, 13(3), 460-470. doi: 10.1007/s11704-017-6464-3.
- Renhe Jiang, Xuan Song, Zipei Fan, Tianqi Xia, Quanjun Chen, Satoshi Miyazawa, and Ryosuke Shibasaki, (2018) ‘DeepUrbanMomentum : An Online Deep-Learning System for Short-Term Urban Mobility Prediction’. In Proceedings of the 32nd AAAI Conference (AAAI 2018)

- Miyazawa S, Song X, and Shibasaki R. (2015) Discovering spatiotemporal topics in Twitter stream to predict crowd behavior, The 24th Conference of Geographical Information Systems Association of Japan (in Japanese)
- Miyazawa S, Yonezaki S, Yoshitsugu T, and Ichinose T. (2011) The Relationship Between Inland Land Cover and the Damage on Coastal Forest Caused by the 2011 Tohoku Tsunami in Sanriku Coast, Japan, The 20th Conference of Geographical Information Systems Association of Japan (in Japanese)

AWARDS/GRANTS

- Grants-in-Aid for Scientific Research (KAKENHI), Grant-in-Aid for Scientific Research (B) (17,550,000 JPY, Co-Investigator) https://kaken.nii.ac.jp/en/grant/KAKENHI-PROJECT-20H01483/
- Grants-in-Aid for Scientific Research (KAKENHI), Grant-in-Aid for Challenging Research (Exploratory) (6,370,000 JPY, Co-Investigator) https://kaken.nii.ac.jp/en/grant/KAKENHI-PROJECT-19K21660/
- GSFS PhD Academic Research Grant, Graduate School of Frontier Sciences, The University of Tokyo. (750,000 JPY)
- Incentives to Study and Conduct Research Through SFC Education Promotion Foundation (124,000 JPY) (Lead researcher: Miyazawa S.)

EDUCATION

October 2014 - September 2017
The University of Tokyo, Tokyo, Japan

- Completed Ph.D. program (Socio-Cultural Environmental Studies) without a Ph.D. degree, and later earned a Ph.D. degree
- Worked on multi-modal human mobility prediction/classification with GPS and SNS data.
- GPA: 4.0/4.0

September 2012 - May 2014
The University of Maryland, College Park, USA

- Master of Professional Studies in Geospatial Information Sciences
- Capstone Project: Modeling and analyzing the possible human trafficking routes in the Arizona-Mexico border, including non-traditional transportation.
- GPA: 4.0/4.0

April 2008 - March 2012
Keio University, Tokyo, Japan

- Bachelor of Arts in Environmental and Information Studies
- Researched assessment of tsunami mitigation effect of coastal forest in the Tohoku region, Japan using Remote Sensing and GIS for my bachelor's thesis.
- GPA: 3.61(Junior/Senior). 3.28(Cumulative)

QUALIFICATIONS, SKILLS, LICENSES

Language: Japanese, English (TOEFL iBT: 100, 2014)
Specialization: data science, machine learning, human mobility prediction, geospatial analysis