YUYA SHIBUYA

The University of Tokyo
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EDUCATION

Ph.D.   March 2019
The University of Tokyo, Japan
Graduate School of Interdisciplinary Information Studies
(Graduated as a representative of the school)

> Ph.D. Thesis Title:
> *"Using Social Media Communication Data for Recovery: A Study Exploring the Possibility of Detecting Socio-Economic Activities Following a Disaster"*

Completed the Graduate Program for Social ICT Global Creative Leaders   March 2019

M.A   March 2016
The University of Tokyo, Japan
Graduate School of Interdisciplinary Information Studies
Socio-information and Communication Studies

B.A. in Philosophy   2006-2010
Keio University, Tokyo, Japan

ACADEMIC POSITION

The University of Tokyo   April 2024 -
The Interfaculty Initiative in Information Studies
Associate Professor (with tenure)

The University of Tokyo   January 2022 - March 2024
Center for Spatial Information Science
Associate Professor

The Weizenbaum Institute, Berlin, Germany   2023 October - 2024 February
Research Fellow

The University of Tokyo   Apr 2019 - Dec 2021
The Interfaculty Initiative in Information Studies
Project Research Associate

Musashi University, Tokyo, Japan   September 2020 - March 2022
Part-time Lecturer

The Weizenbaum Institute, Berlin, Germany   2020
Digital Research Fellow

OTHER EMPLOYMENT

Corpy&CO., Inc., Tokyo, Japan   2020 - 2022
Research Manager

The Open Governance Network, Tokyo, Japan   2019 - 2022
Research Director

Hitachi Transport System, Ltd., Tokyo, Japan   August 2018 - September 2018
Data Analyst Intern

Higashi Nippon Broadcasting Co, Ltd., Sendai, Japan   2010 - 2014
Journalist
Mainly covered crime and legal stories, as well as the Great East Japan Earthquake and Tsunami of 2011

FELLOWSHIP / GRANTS

JST PRESTO Grant Number JPMJPR2463	2024-2028
JSPS KAKENHI Grant Number JP24K16348 (Grant-in-Aid for Early-Career Scientists)	2024-2026
The Weizenbaum Institute, Research Fellow	2023-2024
JSPS KAKENHI Grant Number JP21K13278 (Grant-in-Aid for Early-Career Scientists)	2021-2023
The Weizenbaum Institute, Research Fellow	2020
The Telecommunications Advancement Foundation	2019-2020
The Graduate Program for Social ICT Global Creative Leaders	2016-2019
Leave a Nest Grant	2017

AWARDS

The University of Tokyo Excellent Young Researcher	2024
Specially Selected Paper of IPSJ Journal	2023
NetMob 2023 Best Challenge Contribution Runner-up	2023
IPSJ Yamashita SIG Research Award	2023
2022 Best Paper Award, Computer Security Symposium in Kumamoto, Japan	2022

SSI Best Research Award for Rising Researcher, the Society of Socio-Informatics, Japan	2019
SSI Best Thesis Award (Doctoral Thesis), the Society of Socio-Informatics, Japan	2019
The Academic Award of the Japan Economic Policy Association (Junior award)	2019
Best Student Paper Nomination at ISCRAM 2019	2019
Graduated PhD as a representative of the Graduate School (GSII), the University of Tokyo	2019
NTT DATA Twitter Innovation Contest 2019, Excellence Award	2019
Selected as a CEO Leader which devote to train data scientists	2018
LNest Grant, Proto Award	2017
Distinguished Paper Award at 2016 e-Case & e-Tech	2016

SKILLS

Python, Java, R, Stata, LaTeX, etc.

Languages
English (fluent) and Japanese (native)

TEACHING EXPERIENCE

Instructor, GSII, The University of Tokyo, Introduction to Quantitative Data Analysis	2023 -
Instructor, Musashi University, Tokyo, Japan Course: Introduction to Digital Media Research Methods	2021
Instructor, Musashi University, Tokyo, Japan Course: Critical Thinking	2020
Instructor, GSII, The University of Tokyo, Study Group: Introduction to Data Analysis with Python	2019
Teaching Assistant, GSII, The University of Tokyo, Course: Econometrics with R and Python	2017-2019

PUBLICATION

Book

1. **Shibuya, Yuya**, (2020). *Social Media Communication Data for Recovery: Detecting Socio-Economic Activities Following a Disaster*. Springer, DOI:10.1007/978-981-15-0825-7.

Journal

1. **Shibuya, Yuya**, Nakazato, Tomoka, & Takagi, Soichiro. (2025). How do people evaluate the accuracy of video posts when a warning indicates they were generated by AI? *International Journal of Human-Computer Studies*, 199, 103485.

2. **Shibuya, Yuya**, Olojo, Seyi, Hamm, Andrea, Krishnan, Radhika, & Pargman, Teresa Cerratto. (2025). Can civic data be counterdata and open data? Exploring the limits of data, contestation and governance. In Uncertain Journeys into Digital Futures (pp. 297-308). Nomos Verlagsgesellschaft mbH & Co. KG.

3. **Shibuya, Yuya**, Jones, Nicholas, & Sekimoto, Yoshihide. (2024). Assessing internal displacement patterns in Ukraine during the beginning of the Russian invasion in 2022. *Scientific Reports*, 14(1), 11123.

4. Liu, Mingchen, **Shibuya, Yuya**, & Sekimoto, Yoshihide. (2024). Emotions, behaviors and places: Mapping sentiments with behaviors in Japanese tweets. *Cities*, 155, 105449.

5. Sun, Chenchen, **Shibuya, Yuya**, & Sekimoto, Yoshihide (2024) Social Segregation Levels Vary Depending on Activity Space Types: Comparison of Segregation in Residential, Workplace, Routine and Non-routine Activities in Tokyo Metropolitan Area. *Cities*.

6. Garcia, Santiago, **Shibuya, Yuya**, Sekimoto, Yoshihide (2024). Enhancing geospatial retail analysis by integrating mobility behavior. *Computers, Environments and Urban Systems Journal*.

7. Ma, Jue, **Shibuya, Yuya**, Pang, Yanbo, Omata, Hiroshi, & Sekimoto, Y. (2024). A cost-and-effect simulation model for compact city approaches: A case study in Japan. *Cities*, 152, 105212.

8. Kashiyama, Takehiro, Pang, Yanbo, **Shibuya, Yuya**, Yabe, Takahiro, & Sekimoto, Yoshihiro. (2024). Nationwide synthetic human mobility dataset construction from limited travel surveys and open data. *Computer-Aided Civil and Infrastructure Engineering*, 39(21), 3337-3353.

9. Raetzsch, Christoph, Hamm, Andrea, & **Shibuya, Yuya**. (2023) Infrastructuring for Civic Technologies: A Research Agenda on Co-Creation Methods, Data Interfaces and Engagement for Impact. *Frontiers in Environmental Science*.

10. **Shibuya, Yuya**, Hamm, Andrea, & Cerratto Pargman, Teresa (2022). Mapping HCI Research Methods for Studying Social Media Interaction: A Systematic Literature Review. *Computers in Human Behavior*.

11. **Shibuya, Yuya** & Tanaka, Hideyuki, (2019). Using Social Media to Detect Socio-Economic Disaster Recovery. *IEEE Intelligent Systems*, May/June 2019, 34(3), 29-37.

12. **Shibuya, Yuya**. & Tanaka, Hideyuki. (2019). How Does a Large-scale Disaster Impact on the Used-car Market? A case study of the Great East Japan Earthquake and Tsunami. The International Journal of Economic Policy Studies, 13(1), 89-117.https://doi.org/10.1007/s42495-018-0003-6, **(The academic award of the Japan Economic Policy Association [Junior award])**

13. **Shibuya, Yuya** and Hideyuki Tanaka (2018), A Statistical Analysis Between Consumer Behavior and a Social Network Service: A Case Study of Used-Car Demand Following the Great East Japan Earthquake and Tsunami of 2011, *the Review of Socionetwork Strategies*, 12(2):205-236, https://doi.org/10.1007/s12626-018-0025-6

14. **Shibuya, Yuya**. (2017). Impact of ICT tools on Disaster Logistics Issues. *International Journal of Business and Information*, 12(3): 311-342.

15. **Shibuya, Yuya**. (2017). A Typology for ICT-facilitated Citizen Coproduction: Pre- and Post-Disaster. *International Journal of Cyber Society and Education*, 10(2): 65-86

Conference Paper

1. Nakazato, Tomoka, Onishi, Masaki, Suzuki, Hisami, & **Shibuya, Yuya**. (2024). JSocialFact: a Misinformation dataset from Social Media for Benchmarking LLM Safety. In *Proceedings of 2024 IEEE International Conference on Big Data (BigData) (pp. 3017-3025)*. IEEE.

2. Wu, Zeyu, Nishiyama, Yuki, & **Shibuya, Yuya**. (2024). The Bidirectional Relationship between Emotional Change and Physical Movement Activities: An Analysis Using Propensity Score Matching Methods. In *Proceedings of 2024 IEEE International Conference on Big Data (BigData) (pp. 3095-3104)*. IEEE.

3. **Shibuya, Yuya**, Nakazato, Tomoka, & Takagi, Soichiro. (2022). AI Optimism, Pessimism, or Indifference? Challenges of Combating AI-Made Misinformation Under Mixed Perceptions of AI. In *Workshop Proceedings of the 18th International AAAI Conference on Web and Social Media*.

4. **Shibuya, Yuya**, Garcia, Santiago, Chenchen, Sun, Peiran, Yu, Jue, Ma, & Sekimoto, Yoshihide. (2023) Unmasking Socioeconomic Disparities: A Study of Urban Segregation through the Lens of Mobile App Usage Patterns In *The NetMob 2023 Book of Abstracts* (Netmob 2023 Best Challenge Contribution Runner-up)

5. Tan, Kai-Yi, Lai, Chun-Ming, Foo, Yin-Jie & **Shibuya, Yuya** (2023). Russo-Ukrainian War on Facebook: A Temporal and Spatial Study Based on BERTopic modeling. In *Proceedings of 2023 International Conference on Security and Information Technologies with AI, Internet Computing and Big-data Applications*.

6. Hamm, Andrea, **Shibuya, Yuya**, Teresa Cerratto Pargman, Roy Bendor, Masahiko Shoji, Nicolai Brodersen Hansen, Christoph Raetzsch, et al. (2023). Failed yet Successful: Learning from Discontinued Civic Tech Initiatives. In *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23), May 08–13*. (h5-index: 113, Rank A*)

7. Nakazato, Tomoka, **Shibuya, Yuya**, Takagi, Soichiro (2023) Characterizing the Behavior of Healthcare Experts towards COVID-19 Vaccine on Twitter. In *Proceedings of the 8th International Workshop on Application of Big Data for Computational Social Science at WI-IAT 2023*.

8. Gagnon, Etienne, McElwain, Kenneth, & *Shibuya, Yuya* (2023) Good News or Bad News? Political Social Media Messaging During the Tokyo Olympics. In *Japanese Politics Online Seminar Series*.

9. Hamm, Andrea, *Shibuya, Yuya*, Rehak, Rainer & Ullrich, André (2022) Insights on sustainability-oriented change in mobility stimulated by civic IoT applications. In EJEA International Conference (2022)

10. Avishai, Green†, Shibuya, Yuya, Trillo, Tommaso, Mizoroki, Saki, Scharlach, Rebecca, Hallinan, Blake, Park, Tim, Levi, Effi, Segev, Elad, Shenhav, Shaul and Shifman, Limor (2022) How to Do Things with "Values": A Cross-Linguistic Analysis of the Meanings and Functions of a Core Concept on Twitter. In *the 2022 Internet Research Conference (AoIR2022)*

11. Raetzsch, Christoph, Henriques, Diogo, Hamm, Andrea & *Shibuya, Yuya* (2022) Journalism and the Democratic Interface: From Data Dashboards to Participatory Infrastructures. In *9th European Communication Conference (ECREA 2022)*.

12. Takagi, Soichiro, & **Shibuya, Yuya** (2021). The Value of Agglomeration: How information technologies affect the incentives to live in the citie. *In Proceedings of the 20th International Conference of the Japan Economic Policy Association*, November 6-7, Tokyo, Japan.

13. **Shibuya, Yuya**, Hamm, Andrea, Raetzsch, Christoph. (2021). From Data to Discourse: How Communicating Civic Data Can Provide a Participatory Structure for Sustainable Cities and Communities. *In Proceedings of the International Sustainable Development Research Society (ISDRS)*, July 13-15, 2021, Sweden.

14. Hamm, Andrea, **Shibuya, Yuya**, Ullrich, Stefan & Cerratto Pargman, Teresa. (2021). What Makes Civic Tech Initiatives To Last Over Time? Dissecting Two Global Cases. *In Proceedings*

of the 39th Annual ACM Conference on Human Factors in Computing Systems (CHI '21), May 08–13, 2021, Yokohama, Japan. ACM, New York, NY, USA

15. Liu, Zhaoyuan, **Shibuya, Yuya** & Takagi, Soichiro (2020), Factors affecting inbound tourists to Japan: a panel data analysis. *In Proceedings of the 19th International Conference of the Japan Economic Policy Association*, Nov 19th-20th, Hiroshima, Japan.

16. Takagi, Soichiro & **Shibuya, Yuya**. (2019), Macroeconomic Modeling of the Recovery from Natural Disaster. *In Proceedings of the Japan Association for Social and Economic Systems Studies*, Oct 26-27nd 2019. Nagoya, Japan.

17. **Shibuya, Yuya** & Tanaka, Hideyuki. (2019), Socio-Economic Disaster Recovery Captured by Big Housing Market Data. *In Proceedings of IEEE Globa Humanitarian Technology Conference (GHTC) 2019*, Oct 18-21nd 2019. Seattle, WA. (Referred)

18. **Shibuya, Yuya** & Tanaka, Hideyuki. (2019), Detecting Disaster Recovery Activities via Social Media Communication Topics. *In Proceedings of the 16th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2019)*, 706-718, May 19-22nd 2019. Valencia, Spain. (Referred, <u>**Best Student Paper Nomination**</u>)

19. **Shibuya, Yuya** & Tanaka, Hideyuki. (2018), How Does Public Sentiment on Social Media Reflect Socio-Economic Disaster Recovery? *Poster session presented at the 5th International Conference on Information Communication Technologies for Disaster Management*, Dec 4-7th 2018. Sendai, Miyagi, Tohoku University, Japan.

20. **Shibuya, Yuya** & Tanaka, Hideyuki. (2018), Topics of Social Media Communication and Socio-Economic Recovery. *Poster session presented at ISCRAM ASIA PACIFIC 2018*, Nov 5-7th 2018. Wellington, New Zealand.

21. **Shibuya, Yuya** & Tanaka, Hideyuki (2018), Does Sentiment of Social Media Sense Mid-to Long-Term Socio-Economic Disaster Recovery? A Case Study of Hurricane Sandy Focusing on Housing Demand. *In Proceedings of the 17th International Conference of the Japanese Economic Policy Association (Oct. 2018)*. Fujisawa: Kanagawa, Keio University, Japan.

22. **Shibuya, Yuya** and Tanaka, Hideyuki. (2018). Public Sentiment and Demand for Used Cars after A Large-Scale Disaster: Social Media Sentiment Analysis with Facebook Pages. *In Proceedings of the 5th International Workshop on Social Web for Disaster Management (SWDM'18)*, February 9th, Los Angeles, CA. (Refereed)

23. **Shibuya, Yuya**. (2017). Mining Social Media for Disaster Management: Leveraging Social Media Data for Community Recovery, *In Proceedings of IEEE Big Data workshop on the 2nd International workshop on application of big data for computational social science*, Boston, MA. 3029-3036. (Refereed)

24. **Shibuya, Yuya** and Tanaka, Hideyuki (2017), A Demand Side Analysis of the Car Market after the Great East Japan Earthquake and Tsunami of 2011: A content analysis of Facebook Pages, *In Proceedings of the 16th International Conference of the Japanese Economic Policy Association*, (Nov. 2017), Okinawa, Japan.

25. **Shibuya, Yuya**. (2016). Impacts of ICT tools in humanitarian logistics: A case study of the Great Earthquake and Tsunami of 2011. *In Proceedings of e-Case & e-Tech 2016-Fall*, October 7-9, Taipei, in CD Proceeding. (Refereed, <u>**Distinguished Paper Award**</u>)

26. **Shibuya, Yuya**. (2016), A Typology for ICT-facilitated Citizen Coproduction: Pre- and Post-Disaster, *in Proceedings of NETs2016 (International Conference on Internet Studies)*, July 22-24,

2016, Osaka. (Refereed)

REFEREES

Available on Request.