Zeyu Lyu

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EDUCATION

Ph.D. Computational Humanities and Social Sciences, Tohoku University, 2019-2022

M.S. Behavioral Science, Tohoku University, 2017-2019

B.S. Journalism, Northeastern University (China), 2012-2016

WORK EXPERIENCE

2022/4-Present Project Researcher

Institute of Social Science, The University of Tokyo

GRANTS AND AWARDS

Awards and Honors

2022 Tohoku University President's Award (東北大学総長賞)

2018 Monbukagakusho Honors Scholarship for Privately Financed International Students

(文部科学省外国人留学生学習奨励費)

Grants (PI)

2022-2024 Investigation of Opinion Polarization in Online Communication: Towards an

Integration of Explanation and Prediction, Grant-in-Aid for Research Activity

Start-up: 22K20182

2022 Research Grant of Institute of Social Science, the University of Tokyo (東京大学社

会科学研究所所内プロジェクト支援経費)

2020-2022 Investigating the mechanism political polarization on social media, Grant-in-Aid for

JSPS Fellows: 20J11407

2019–2020 Sentiment analysis on social media: Combining natural language processing and

network analysis to examine how social media shape opinion dynamics, The Division for

Interdisciplinary Advanced Research and Education Research Grant

Fellowships

2020-2022 JSPS Research Fellowship for Young Scientists DC2

2019-2022 AIE - WISE Program for AI Electronics, Tohoku University

2019–22 The Division for Interdisciplinary Advanced Research and Education, Tohoku

University

PUBLICATIONS

Peer-Review Articles

2022	Zeyu Lyu , Hiroki Takikawa. "Media framing and expression of anti-China sentiment in COVID-19-related news discourse: An analysis using deep learning methods", <i>Heliyon</i> , 8(8):e10419, doi:10.1016/j.heliyon.2022.e10419.
2022	Zeyu Lyu , Hiroki Takikawa. "Disparity and Dynamics of Social Distancing Behaviors in Japan: An Investigation of Mobile Phone Mobility Data", <i>JMIR Medical Informatics</i> 10(3):e31557, doi:10.2196/31557
2020	Maoxin Ye, Zeyu Lyu . "Trust, Risk Perception, and COVID-19 Infections: Evidence from Multilevel Analyses of Combined Original Dataset in China", <i>Social Science and Medicine</i> 265,113517, doi:10.1016/j.socscimed.2020.113517 (corresponding author)
2020	Zeyu Lyu . "Ideological and Behavioral Perspectives on Political Polarization: Evidence from Japan.", <i>Sociological Theory and Methods</i> 35(2). doi:10.11218/ojjams.35.170
2019	Zeyu Lyu . "Towards an Understanding of Online Extremism in Japan", IEEE/WIC/ACM International Conference on Web Intelligence on - WI '19 Companion. doi:10.1145/3358695.3360922

Manuscripts in Review

Zeyu Lyu. "Cross-Cutting Interaction, Inter-Party Hostility, and Partisan Identity: Analysis of Affective Polarization in Social Media.", Under review at *New Media and Society*.

CONFERENCE/WORKSHOP

Oral Presentation

2022	Zeyu Lyu. "Cross-Cutting Interaction, Out-Group Hostility, and Partisan Identity: Investigation of Affective Polarization on Social Media" <i>Annual Meeting of the American Sociological Association(ASA)</i> , Los Angeles, CA. August 4th-9th.
2022	Zeyu Lyu . "Cross-Cutting Interaction, Out-Group Hostility, and Partisan Identity: Investigation of Affective Polarization on Social Media" <i>International Conference on Computational Social Science(IC2S2 2022)</i> , Chicago, IL. July 19th-22ed.
2022	Zeyu Lyu . "Cross-Cutting Interaction, Out-Group Hostility, and Partisan Identity: Investigation of Affective Polarization on Social Media" <i>CSSJ2022</i> , Online. March 1st.
2021	Zeyu Lyu , Hiroki Takikawa. "Anti-China sentiments during the COVID-19 pandemic: An analysis using deep learning methods" <i>International Conference on Computational Social Science (IC2S2 2021)</i> , Online. July 27th-31st.
2021	Hiroki Takikawa, Lyu Zeyu , Yuske Inagaki, Yutaka Nakai, Jun Tsunematsu, Takuto Sakamoto, Shinya Obayashi. "Effects of family and social interaction on mental well-being in populations under social distancing restrictions during the COVID-19 pandemic", <i>International Network of Analytical Sociologists 13th Annual Conference</i> , Online. May 29th-30th.
2021	Zeyu Lyu , Hiroki Takikawa. "Sensing community and individual psychological states during COVID-19 in China: Estimation method based on social media data and deep

		learning", International Network of Analytical Sociologists 13th Annual Conference, Online, May 29th-30th.
	2021	Zeyu Lyu , Hiroki Takikawa."The relationship between gender, age, and occupation and adherence with restriction measures during the COVID-19 pandemic: An investigation of mobile phone mobility data", <i>Computational Social Science Japan 2021</i> , Online. Feb 27th-28th.
	2020	Zeyu Lyu . "Inequality in the Academic Attention of Social Science Research", International Computational Humanities and Social Science Workshop, Sendai. Jan 19th.
	2019	Yoshimichi Sato, Zeyu Lyu . "Japanese Language Schools as Alternative Routes to the Labor Market in Japan", <i>The Annual Meeting of the American Sociological Association</i> , New York. Aug 10th-13th.
	2019	Zeyu Lyu . "An Computation Approach for Investigating Political Polarization Evidence from Ideological Stance and Interaction Behaviors in Japanese Twitter", <i>The 5th East Asian Conference for Young Sociologists</i> , Taipei. Feb 19th-20th.
	2018	Zeyu Lyu . "Political Polarization on Japanese Twitter: Estimating Ideology with Bayesian Ideal Points Estimation", <i>Graduate Conference in Japanese Studies 2018</i> , Osaka. Dec 3rd.
	Poster	
	2022	Zeyu Lyu . "Polarization of Gender? Network, Expression, and Emotion in Online Feminism" <i>Meeting of the Japanese Association for Mathematical Sociology</i> , Online. August 27th-28th.
	2022	Hiroki Takikawa, Zeyu Lyu . "Differences in response to behavior restriction policies under the COVID-19 epidemic in Japan in terms of gender, age group, and income level of the residence" <i>Annual Meeting of the American Sociological Association(ASA)</i> , Los Angeles, CA. August 4th-9th.
OTHER WORKING EXPERIENCE		
	2022/I-2022/3	Research Assistant Graduate School/Faculty of Arts and Letters, Tohoku University
	2021/10-2022/3	Research Assistant, Frontier Research Institute for Interdisciplinary Sciences, Tohoku University
	2021/3	Teaching Assistant Data Science and Sociology (Short Workshop) in Tokyo University (Dr. Hiroki Takikawa)

Academic Assistant

Research Assistant

PC Supporter

School of Engineering, Tohoku University

2020/4-2021/3

2019/10-2022/3

2018/10-2019/3

Graduate School/Faculty of Arts and Letters, Tohoku University

Graduate School/Faculty of Arts and Letters, Tohoku University

2017/4-2018/3 International Student Tutor

Graduate School/Faculty of Arts and Letters, Tohoku University

RESEARCH PROJECT EXPERIENCE

Academic Research Project

2022-2025 Co-Investigator

Project: 動的多細胞コミュニティの数理社会解析 (学術変革領域研究(B)

/PI: Susumu Cato)

2021- Project Researcher

Project: Methodology of Social Sciences: How to Measure Phenomena and Values

(Institute-wide joint research project)

2021- Research Assistant

Project: パンデミックに備える社会的データ収集枠組みの構築と数理モデルによるネットワーク介入の有効性評価(JST さきがけ/PI: Hiroki

Takikawa)

Research Content: Combine mobility data and social survey to investigate the

widening inequalities due to the COVID-19 pandemic.

2021- Research Collaborator

Project: 計算社会科学の社会学的基盤の構築(挑戦的研究:21K18448/PI:

Yoshimichi Sato)

Research Content: Attempt to establish the sociology theoretical foundation for

computational social science.

2021-2022 Research Assistant

Project: 天文と古典学(東北大学共創基金+名古屋大学YLC助成/PI:Kohei

Ichikawa)

Research Content: Build historical documents data archive and employ text mining

techniques to provide insight of astronomical events in history.

2021- Research Collaborator

Project: 社会的接触調査に基づく社会的ネットワーク上のダイナミクス

解析(東北大学ポストコロナ社会構築研究スタートアップ支援/PI: Hiroki

Takikawa)

Research Content: Investigate the structure of real social networks based on social

contact surveys and employ mathematical methods to reconstruct the dynamics of

network.

2020-2022 Research Collaborator

Project: ビッグデータ分析と実験の統合によるオンライン社会における

場のダイナミクスの解析 (基盤研究B:20Ho1563 /PI: Hiroki Takikawa)

Research Content: Combine big data analysis and digital experiment methods to

investigate human behaviors and opinion dynamics in online discourse.

Industry-Academia Collaboration Project

2021-2022 **Softbank**

Research Content: Develop aspect based sentiment analysis system that can extract

aspects and classify corresponding sentiment polarities in users' comments.

2020-2022 **NHK**

Research Content: Employ natural language processing techniques to capture the dynamics of opinion towards politicians on social media.

SKILL

Programming: Python, R, Spark, SQL

Writing: LaTeX, Markdown