Zeyu Lyu

Computational Humanities and Social Sciences
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Tohoku University

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EDUCATION

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

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

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

RESEARCH AREAS

Computational Social Science: Applied Machine Learning/Deep Learning, Natural Language Processing, and Text Mining

Political Communication: Political Polarization, Opinion Dynamics, and Populism

PUBLICATIONS

Peer-Review Articles

2022   **Zeyu Lyu**, Hiroki Takikawa. "Disparity and Dynamics of Social Distancing Behaviors in Japan: An Investigation of Mobile Phone Mobility Data.", *JMIR Medical Informatics*. Accepted

2020   Maoxin Ye, **Zeyu Lyu**."Trust, Risk Perception, and COVID-19 Infections: Evidence from Multilevel Analyses of Combined Original Dataset in China", *Social Science and Medicine* 265,113517. doi:10.1016/j.socscimed.2020.113517 (corresponding author)

2020   **Zeyu Lyu**. "Ideological and Behavioral Perspectives on Political Polarization: Evidence from Japan.", *Sociological Theory and Methods* 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

2022   **Zeyu Lyu**, Hiroki Takikawa. "Anti-China sentiments during the COVID-19 pandemic: An analysis using deep learning methods.", Under review.

2022   **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.", Under review.

CONFERENCE/WORKSHOP

Oral Presentation

2021   **Zeyu Lyu**, Hiroki Takikawa."Anti-China sentiments during the COVID-19 pandemic: An analysis using deep learning methods " *International Conference on Computational Social Science (IC2S2 2021)* , 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", *International Network of Analytical Sociologists 13th Annual Conference*, 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", *Computational Social Science Japan 2021*, 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", *The Annual Meeting of the American Sociological Association*, 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", *The 5th East Asian Conference for Young Sociologists*, Taipei. Feb 19th-20th.

2018   **Zeyu Lyu**. "Political Polarization on Japanese Twitter: Estimating Ideology with Bayesian Ideal Points Estimation", *Graduate Conference in Japanese Studies 2018* , Osaka. Dec 3rd.

Poster

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", *International Conference on Computational Social Science (IC2S2 2021)* , Online. July 27th-31st.

2018   **Zeyu Lyu**. "Political Polarization on Twitter: Estimating Ideology with Bayesian Ideal Points Estimation", *Japanese Association for Mathematical Sociology 65th Meeting*, Tokyo. Mar 14th-15th.

GRANTS AND AWARDS

Awards and Honors

2018   Monbukagakusho Honors Scholarship for Privately Financed International Students

Grants and Fellowships

2019–22   AIE - WISE Program for AI Electronics, Tohoku University

2019–22   The Division for Interdisciplinary Advanced Research and Education (DIARE), Tohoku University(tuition support)

2019   The Division for Interdisciplinary Advanced Research and Education (DIARE) research grant (¥ 800,000).

2020-22   JSPS Research Fellowship for Young Scientists DC2 (¥ 2,100,000).

SERVICE

PC Supporter, Graduate School/Faculty of Arts and Letters,Tohoku University 2019–

Teaching Assistant,Data Science and Sociology(Short Workshop), Tokyo University,2021

SKILL

Programming: Python, R, Spark, SQL

Writing: Latex, Markdown

Updated January 2022