

Zekai Lu

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EDUCATION

MA. Sociology thesis-based (*GPA 4/4*) (2023~)

McGill University

LL.B. Sociology (*Outstanding Thesis*) (2019~2023)

Guangzhou University

RESEARCH AREAS

Sociology: *Medical sociology*; Computational sociology; Media Sociology.

Psychology: *Adolescent Psychology* and Criminal Psychology.

Methodology: Traditional metrology (including Mixed linear models, Structural equation modelling, LCA/LPA and LCGM); Social network analysis; Machine learning (including Deep learning, and Natural Language Processing); Causal inference; Meta-analysis

Programming Language: Python(skilled), **R(skilled)**, Stata(skilled), Mplus(skilled), MATLAB and Netlogo.

PUBLICATIONS¹

Published (Peer Review)

2023 **Zekai Lu**, Rongqin Yuan, Zelin, L., & Lu, H. (n.d.). Understanding the latent profile of anxiety and depression in relation to *suicide intention* and *fear of COVID-19* among primary and secondary school teachers in China during the COVID-19 pandemic. *Psychological Trauma: Theory, Research, Practice, and Policy*. **(TOP APA JOURNAL)**

2022 **Zekai Lu**, Chuyin Xie, Nian Liu, Ying Xie, and Hong Lu. 2022. ‘Can We Predict Aggression?’—Determining the Predictors of Aggression among Individuals with Substance Use Disorder in China Undergoing Enforced Detoxification through Machine Learning. *Journal of Affective Disorders*. <https://doi.org/10.1016/j.jad.2022.10.005>. **(SSCI JCRQ1)**

2022 **Zekai Lu**, Lingxi Peng, Xuan Liu, Lizhi Zhan, Haohuai Liu, and Rong Hu. 2022. “The Systematic Traceability and Analysis of COVID-19.” *Journal of Nonlinear and Convex Analysis* 23(10):

¹ *, Corresponding author. Papers list *In chronological order*

2383–93². <http://yokohamapublishers.jp/online-p/JNCA/Open/vol23/jncav23n10p2383-93/HTML5/index.html> (*SCI JCRQ2*)

2023 Liu, Nian, **Zekai Lu***, and Xie Ying. n.d. Application of the R Package ProcessR to Implement Various Types of Intermediary Models. *China Health Statistics (Chinese)*. (*CHINESE CSCD*³)

2022 Liu, Nian, **Zekai Lu**, and Ying Xie. 2022. Tracking Study on the Relapse and Aftercare Effect of Drug Patients Released From a Compulsory Isolated Detoxification Center. *Frontiers in Psychiatry* 12 (January): 699074. <https://doi.org/10/gn458v>. (*SSCI JCRQ1*)

2021 Xu, Junhui, **Zekai Lu**, and Ying Xie. 2021. Loan Default Prediction of Chinese P2P Market: A Machine Learning Methodology. *Scientific Reports* 11 (September): 18759. <https://doi.org/10/gmwnfz>. (*SCI JCRQ1*)

2021 Liu, Nian, **Zekai Lu**, and Ying Xie. 2021. Factors Affecting the Public Acceptance of Extramarital Sex in China. *International Journal of Environmental Research and Public Health* 18 (11): 5767. <https://doi.org/10.3390/ijerph18115767>.

2021 **Zekai Lu**, and Xie, Ying. 2021. A study of public opinion texts on the “Sino-US diplomatic storm” in microblogs: a word vector sentiment analysis based on R language. *Media Watch*, no. 02: 54-61. <https://doi.org/10.19480/j.cnki.cmgc.2021.02.007>. (*CHINESE CSSCI*⁴)

2021 **Zekai Lu**, Yaya Wang, and Ying Xie. n.d. A random forest-based approach to poverty alleviation identification. *China Market*. 2021, 22-23+36. <https://doi.org/10.13939/j.cnki.zgsc.2021.25.022> (*CHINESE*)

Accepted

2023 **Zekai Lu**, Nian Liu, Ying Xie, and Junhui Xu. 2021. Time Series Analysis and Forecasting of China’s Energy Production during Covid-19: Statistical Models vs Machine Learning Models. *Energies*. <https://doi.org/10.21203/rs.3.rs-1074872/v3>. (*SSCI JCRQ3*)

² As the article is in subscription, while someone finds this paper interesting can access a preprint in my *personal website* <https://williamlord.github.io/TheSystematic.pdf>

³ Chinese Science Citation Database

⁴ *Chinese Social Sciences Citation Index (CSSCI)*, Considered to be the most authoritative index of Chinese social science journals.

Under Review

Prepare to Submit

1. **Zekai Lu**, Yuan, R., Jiawen, L., & Lu, H. (n.d.). Psychometric properties and measurement invariance of the Depression, Anxiety, and Stress Scale (DASS-21) in Chinese primary and secondary school teachers. *Journal of Psychopathology and Behavioral Assessment*.
2. Rong,hu, Ziyao Zeng, **Zekai Lu***, Ying Xie. 2022. Changing Perception of Macro-Distributive Justice in China: Comparative Analysis Based on CGSS2005 and CGSS2015. *China: an international journal*. <https://doi.org/10.21203/rs.3.rs-990615/v1>

CONFERENCE PRESENTATIONS

If the results are eventually published, then it won't be written here.

WORK APPOINTMENT

2023 – McGill University Research Assistant.

2021 – 2023 Guangzhou University Research Assistant, Center for Brain and Cognitive Sciences (Psychology), School of Education

2019 – 2022 Guangzhou University Research Assistant, Department of Sociology

MEMBERSHIP

2023 – Member of The Centre for the Study of Democratic Citizenship

2019 – Member of the Chinese Association of **Social Psychology**

REVIEWERS' APPOINTMENT

1. Journal of Affective Disorders (**SSCI JCRQ1 PSYCHOLOGY/PSYCHIATRY**)
2. Psychological Trauma: Theory, Research, Practice, and Policy (**SSCI JCRQ1 PSYCHOLOGY/PSYCHIATRY APA**)
3. Frontiers in Public Health (**SSCI JCRQ1 PUBLIC HEALTH**)
4. PLOS ONE (**SCI JCRQ1 MULTIDISCIPLINARY**)
5. Annals of Operation Research (**SCI JCRQ2 OPERATION**)

TEACHING EXPERIENCE

Winter Term 2024 Teaching Assistant for **SOCI 309 Health and Illness** (Prof. Quesnel-Vallee, McGill University).

Fall Term 2023 Teaching Assistant for *SOCI 235 Technology and Society* (Mr. Drago, McGill University).

Fall Term 2020-2021 Teaching assistant of *Quantitative Analysis Method* (Prof. Ying Xie, Guangzhou University)

Fall Term 2020-2021 Teaching assistant of *Application Of Statistical Software In Social Sciences* (Dr. Nian Liu, Guangzhou University)

Spring Term 2020-2021 Teaching assistant of *Application of Statistic Software* (Dr. Nian Liu, Guangzhou University)

INTERNSHIP EXPERIENCE

2022/05-2022/07 Intermediate Social Work Internship in *Guangzhou Shanshan Social Service Centre*

2022/09-2022/11 Psychological Trainers Internship in *Guangzhou Clear Sky Psychological Service*

GRANTS AND AWARDS

Awards and Honors

- 2023 Outstanding graduate thesis in Guangzhou University
- 2022 First prize for thesis in First Chinese Political Science Undergraduate Symposium
- 2021 First-class scholarship of Guangzhou University
- 2021 Outstanding student at Guangzhou University
- 2021 Excellent academic scale of Guangzhou University
- 2021 The second prize of the College Challenge Cup of Guangzhou University
- 2020 Third-class scholarship of Guangzhou University

Grants and Fellowships

- 2023 Western Graduate Research Scholarship (\$16,912 per year, decline the offer)
- 2023 Graduate entrance scholarship of UBC (\$5000, decline the offer)
- 2020–21 Provincial scientific research projects for college students (¥7000)
- 2020–21 College Challenge Cup of Guangzhou University (¥2500)