

Zekai Lu

Department of Sociology
School of Public Administration
Guangzhou University

1903500028@e.gzhu.edu.cn
+86 13268211675
<https://williamlorder.github.io/>

EDUCATION

LL.B. Sociology, Guangzhou University (Undergraduate & Grade 4)

RESEARCH AREAS

Psychology: Social Psychology, Behavioral Psychology, Adolescent Psychology and Criminal Psychology.

Sociology: Medical sociology; Computational sociology; Media Sociology and Gender sociology.

Methodology: Traditional metrology(including Mixed linear models, Structural equation modelling, LCA/LPA and LCGM); Big data processing; Social network analysis; Machine learning(including Deep learning, and Natural Language Processing); Causal inference (Rubin Counterfactual Framework and Pearl's DAG); Meta-analysis

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

PUBLICATIONS¹

In chronological order

Published

- 2022 **Zekai Lu**, Lingxi Peng, Xuan Liu, Lizhi Zhan, Haohuai Liu and Rong Hu, The systematic traceability and analysis of COVID-19. *Journal of Nonlinear and Convex Analysis*, 22(5), 937–967. **(SCI JCRQ2) SOCIOLOGY PAPER**
- 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) PSYCHOLOGY PAPER**
- 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) SOCIOLOGY PAPER**
- 2022 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

¹ *, Corresponding author

(11): 5767. <https://doi.org/10.3390/ijerph18115767>. **(SSCI JCRQ1) PSYCHOLOGY PAPER**

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(Chinese)*, no. 02: 54-61. <https://doi.org/10.19480/j.cnki.cmgc.2021.02.007>. **(CSSCI) SOCIOLOGY PAPER**

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

Accepted

2022 **Zekai Lu**, Xie, C., Liu, N., Xie, Y., Lu, H., n.d. ‘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*. **(SSCI JCRQ1) PSYCHOLOGY PAPER**

2022 **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) SOCIOLOGY PAPER**

2021 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)*. **(CSCD) PSYCHOLOGY PAPER**

Under Review

2022 **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*. (First round review) **PSYCHOLOGY PAPER**

2021 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> (First round review) **SOCIOLOGY PAPER**

APPOINTMENTS

Work appointment

2021 – Guangzhou university
Research Assistant, Center for Brain and Cognitive Sciences, School of Education

2019 – Guangzhou university
Research Assistant, Department of Sociology

Reviewers appointment

1. *Journal of Affective Disorders*(SSCI JCRQ1 PSYCHOLOGY)
2. *Annals of Operations Research*(SCI JCRQ1 ABS-3)

GRANTS AND AWARDS

Awards and Honors

- | | |
|------|--|
| 2021 | First prize for thesis in <i>First Chinese Political Science Undergraduate Symposium</i> |
| 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

- | | |
|---------|--|
| 2020–21 | Provincial scientific research projects for college students (¥7000) |
| 2020–21 | College Challenge Cup of Guangzhou University (¥2500) |