

# Zekai Lu

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## EDUCATION

LL.B. Sociology, Guangzhou University (Undergraduate & Grade 3)

## RESEARCH AREAS

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

**Psychology:** Behavioral Psychology, Criminal Psychology and Social Psychology

**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), MATLAB, Netlogo, and Mplus(skilled).

## PUBLICATIONS<sup>1</sup>

### *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 IF=1.075)**
- 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 IF=5.435)**
- 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 IF= 4.380)**
- 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 (11): 5767. <https://doi.org/10.3390/ijerph18115767>. **(SSCI JCRQ1 IF=3.390)**

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<sup>1</sup> \*, Corresponding author

- 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)**
- 2021 **Zekai Lu**, Yaya Wang, and Ying Xie. n.d. ‘Shui Shi Fu Pin Dui Xiang —— Ji Yu Sui Ji Sen Lin de Fu Pin Shi Bie Ban Fa’. *China Market(chinese)*. 2021, 22-23+36. <https://doi.org/10.13939/j.cnki.zgsc.2021.25.022>

#### Accepted

- 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 IF=3.252)**
- 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)**

#### Under Review

- 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*. (Second round 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)
- 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)

## APPOINTMENTS

### Work appointment

- 2019 – Guangzhou university  
Research Assistant, Department of Sociology
- 2021 – Guangzhou university  
Research Assistant, Center for Brain and Cognitive Sciences, School of Education

### Reviewers appointment

1. *Journal of Affective Disorders(SSCI JCRQ1 IF=4.839)*

**2. *Annals of Operations Research*(SCI JCRQ1 ABS-3 IF=4.854 )**

**GRANTS AND AWARDS**

**Awards and Honors**

- 2021 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**

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