

# Zekai Lu

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## EDUCATION

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

## APPOINTMENTS

2019 – Guangzhou university  
Research Assistant, Department of Sociology

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

## 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 so on); 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

### Journal Articles<sup>1</sup>

#### In English

2022     **Zekai Lu**, Liu, N.; Xie, Y.; Xu, J. Time Series Analysis and Forecasting of China's Energy Production during Covid-19: Statistical Models vs Machine Learning Models. *Sustainable*

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

*Energy Technologies and Assessments* 2022, <https://doi.org/10.21203/rs.3.rs-1074872/v3>.  
**(SCI JCRQ1 IF=5.353)** (Accept)

- 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=4.157)**
- 2022 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> **(SSCI JCRQ3 IF=0.675)** (Accept)
- 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)**
- 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>. **(SSCI JCRQ1 IF=3.390)**

#### In Chinese

- 2022 Liu,Nian; **Lu, Zekai\***, and Ying Xie. 2021. 'Implement various mediation models with R software package processr.' *China Health Statistics* **(CSCD)** (Accept)
- 2021 **Lu, Zekai**, 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>. **(CSSCI)**
- 2021 **Lu, Zekai**, 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*. 2021, 22-23+36. <https://doi.org/10.13939/j.cnki.zgsc.2021.25.022>

#### Conference Proceedings

- 2020 **Lu, Zekai**, 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'. In *'East and Western Poverty Alleviation and Comprehensive Well - off' Academic Round Table and the 2nd 'Guangzhou · Weinan Summit Forum'*. Guangzhou,China
- 2020 **Lu, Zekai**, and Ying Xie. 2020. 'wei bo zhong de “zhong mei wai jiao feng bo” yu qing wen ben yan jiu —— ji yu R yu yan de ci xiang liang qing gan fen xi'. In *Chinese Sociology Annual Conference (Internet Sociology)*. Shanghai,China.
- 2021 **Lu Zekai**, Wang Yayu, Xie Ying, 2020. 'What we can learn about urban governance in the epidemic: a textual analysis of the Guangzhou Health Commission documents during Covid-19'. Presented at the *First Chinese Political Science Undergraduate Symposium, South China Normal University*, Guangzhou.

## **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)