

# Zekai Lu

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## 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.

## PUBLICATIONS<sup>1</sup>

### *In chronological order*

#### Published

- 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) PSYCHOLOGY PAPER**
- 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*, 23(10), 2383-2393. **(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**

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

- 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 (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**, 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**

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|------|------------------------------------------------------------------------------------------|
| 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**

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