

# Zekai Lu

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## EDUCATION

MA. Sociology thesis-based (2022~)

McGill University

LL.B. Sociology (2019~2022)

Guangzhou University

## RESEARCH AREAS

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

**Psychology:** Social Psychology, Behavioral Psychology, Adolescent Psychology and Criminal 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), Mplus(skilled), MATLAB and Netlogo.

## PUBLICATIONS<sup>1</sup>

### 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/PSYCHIATRY IF= 6.53**)
- 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): 2383–93<sup>2</sup>. <http://yokohamapublishers.jp/online-p/JNCA/Open/vol23/jncav23n10p2383-oa/HTML5/index.html> (**SCI JCRQ2 STATISTICS IF=1.02**)
- 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.

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<sup>1</sup> \*, Corresponding author. Papers list *In chronological order*

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

*Frontiers in Psychiatry* 12 (January): 699074. <https://doi.org/10/gn458v>. (**SSCI JCRQ1 PSYCHIATRY IF=5.44**)

- 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 MULTIDISCIPLINARY-SCIENCES IF=4.99**)
- 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 PUBLIC-HEALTH IF= 4.61**)
- 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 SOCIOLOGY CSSCF**)
- 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

- 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 STATISTIC IF=3.25**)
- 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)*. (**CHINESE STATISTICS CSCD<sup>4</sup>**)

#### 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*. (**Second round review**) **PSYCHOLOGY PAPER**
- 2022 **Zekai Lu**, Zelin, L., Jiawen, L., Rongqin Yuan, & 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. *Social Science & Medicine*. (**First round review**) **SOCIOLOGY/ 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

<sup>3</sup> *Chinese Social Sciences Citation Index*, Considered to be the most authoritative index of Chinese social science journals.

<sup>4</sup> *Chinese Science Citation Database*

#### WORK APPOINTMENT

- 2019 – Member of *Chinese Association of Social Psychology*
- 2021 – Guangzhou university Research Assistant, Center for Brain and Cognitive Sciences(Psychology), School of Education
- 2019 – Guangzhou university Research Assistant, Department of Sociology

#### REVIEWERS' APPOINTMENT

1. Journal of Affective Disorders (*SSCI JCRQ1 PSYCHOLOGY/PSYCHIATRY IF= 6.53*)
2. Frontiers in Public Health (*SSCI JCRQ1 PUBLIC HEALTH IF= 6.46*)
3. Annals of Operation Research (*SCI JCRQ2 OPERATION IF= 4.82*)

#### TEACHING EXPERIENCE

- Fall Term 2020-2021 Teaching assistant of *Quantitative Analysis Method* (Prof. Ying Xie)
- Fall Term 2020-2021 Teaching assistant of *Application Of Statistical Software In Social Sciences* (Dr. Nian Liu)
- Spring Term 2020-2021 Teaching assistant of *Application of Statistic Software* (Dr. Nian Liu)

#### 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

- 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)