Ziqian Xia

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EDUCATION

Bachelor of Economics in Economic Statistics (Major)

Bachelor of Science in Applied Psychology (Minor)

Nanchang University, Nanchang, China PR (NCU)

Attending a specially established elite school: Jiluan Academy

GPA: 86.43 RANK:33/90

Business and Culture Program (Exchange Program)

Waseda University, Tokyo, Japan (WU)

The Analysis Methods of Social Survey Data (Summer School)

Peking University, Beijing, China PR (PKU)

Visiting Student - Mitacs Globalink Research Interns

University of Winnipeg, Canada (UWinnipeg)

Expected Summer 2022

July 2019

June 2020

Expected June 2021 - Sep 2021

RESEARCH INTERESTS

Environmental Economics; Behavioral Economics; Spatial Econometrics

LAB POSITIONS

Undergraduate Research Assistant

Institute of Circular Economy, Nanchang University, China

2018 - Present

- Assist Lab team in data collection and cleaning, Managing the team's database.
- Document sorting and coordination.
- Contribute to data visualizations and simulations in the paper.

Mitacs Globalink Research Interns

2021

- University of Winnipeg & University of Manitoba, Canada
- Assist in Spatial analysis and GIS modelling.
- Assist the senior research assistant in preparing reports and manuscript.

Project Research Assistant

2020 - 2021

Institute of soil and water conservation (ISWC), Chinese Academy of Sciences (CAS), China

- Assist in data cleaning, data visualization, and building machine learning models.
- Mapping and analysis of fine root data distribution.

PUBLICATIONS

Journal Paper:

Aiding Pro-Environment Behavior Measurements by Internet of Things, *Resources, Recycling and Conservation* (Under review)

Understanding waste sorting behavior and key influencing factors through big data based on Internet of Things, *Resources, Recycling and Conservation* (Under review)

Public Sentiment Analysis of New Energy Vehicle: A Case Study of Chinese Internet Data, Renewable & Sustainable Energy Reviews (Under review)

RESEARCH EXPERIENCE

Exploring the behavioral factors of waste sorting in circular economy (PI)

2020 - 2021

Funded by Institute of Circular Economy, Nanchang University.

- Using IoT data to analyze the behavior of waste sorting.
- > PLS-SEM modeling through questionnaire survey combined with big data mining.
- The real factors influencing residents' waste sorting behavior were obtained.

Estimation of medical waste output and its environmental impact in COVID-19 (PI)

2020 - 2021

Funded by Province-Level Training Program of Innovation and Entrepreneurship, Nanchang University.

- Establish a counterfactual prediction model of medical waste production using deep learning algorithm.
- Estimate medical waste produced by COVID-19's environmental net effects using life cycle database.
- > The estimation methods of medical waste were summarized.

Integration and mining analysis of global fine root functional trait data (PI)

2019 - 2020

Funded by Institute of soil and water conservation (ISWC), Chinese Academy of Sciences (CAS).

- Bibliometric study and review writing of global biological fine roots.
- Meta-analysis of multiple fine root biotypes and environmental indicators.
- Mapping the distribution and traits of fine roots in China and completing the report.

The integration and pole effect of Yangtze River Economic Belt (CO-PI)

2019 - 2020

Funded by National-Level Training Program of Innovation and Entrepreneurship, Nanchang University.

- The regional economic vitality index has been formulated.
- Markov algorithm is used to study the future economic vitality of the Yangtze River economic belt.
- Team cooperation completed the Yangtze River Economic Belt Integration Research Report.

SELECTED HONORS AND AWARDS

First-class / Second-class scholarship of Nanchang University	2019/2020
Contemporary Undergraduate Mathematical Contest in Modeling: First Prize	2020
International Youth Math Challenge: NO.1 Prize	2019
Asia and Pacific Mathematical Contest in Modeling: Second Prize	2019
National Contest for College Business English Knowledge: First Prize	2020
National undergraduate market survey and Analysis Competition: First Prize	2020
Excellent college student volunteers of Xinzhou Red Cross Society	2019

TECHNICAL SKILLS

Programming languages: R (Main)*, Python

Social Science Package: SmartPLS, Stata

Geography Package: QGIS, Geoda

Others: Latex

*Note: Most of the works was done by R.

LANGUAGES

Chinese: Fluent

English: Proficient

Japanese: Primary

FURTHER EDUCATION / SELF-LEARNING

Basic Statistics, an online course by University of Amsterdam on Coursera. Certificate earned February 4, 2020

R Programming, an online course by Johns Hopkins University on Coursera. Certificate earned February 26, 2020

Advanced R Programming, an online course by Johns Hopkins University on Coursera. Certificate earned March 4, 2020

Time Series Analysis in R/ Unsupervised Learning in R/ Structural Equation Modeling with lavaan in R and other 8 R Programming online courses by Datacamp.