

## Ziqian Xia

<https://ziqian-xia.tech/>

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### EDUCATION

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<b>Master of Management in Public Policy</b> Tongji University, Shanghai, China PR (Tongji)	Expected Spring 2025
<b>Bachelor of Economics in Economic Statistics (Major)</b> <b>Bachelor of Science in Applied Psychology (Minor)</b> Nanchang University, Nanchang, China PR (NCU) Attending a specially established elite school: Jiluan Academy GPA: 86.43 RANK:33/90	Expected Summer 2022
<b>Business and Culture Program (Exchange Program)</b> Waseda University, Tokyo, Japan (WU)	July 2019
<b>The Analysis Methods of Social Survey Data (Summer School)</b> Peking University, Beijing, China PR (PKU)	June 2020
<b>Visiting Student - Mitacs Globalink Research Interns</b> University of Winnipeg, Canada (UWinnipeg)	June 2021 - Sep 2021

### RESEARCH INTERESTS

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Environmental Behaviour; Environmental Economics; Meta Science

### PUBLICATIONS

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#### *Journal Paper:*

**Xia, Z.**, Zhang, S., Tian, X., & Liu, Y. (2021). Understanding waste sorting behavior and key influencing factors through internet of things: Evidence from college student community. *Resources, Conservation and Recycling*, 174, 105775. (Journal IF 2021: 10.2, Click [Here](#))

**Xia, Z.**, & Liu, Y. (2021). Aiding pro-environmental behavior measurement by Internet of Things. *Current Research in Behavioral Sciences*, 2, 100055. (Click [Here](#))

#### *Working Papers:*

A systematic review and meta-analysis of psychological strategies to reduce food waste

Discontinuance in waste sorting behavior by the lens of Social Network and IoT

Information against inaction: IoT-based Intervention experiment on waste sorting behavior

## LAB POSITIONS

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*Undergraduate Research Assistant* **2018 - Present**  
*Institute of Circular Economy, Nanchang University, China*

- 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.

## SOCIETY MEMBERSHIPS

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The International Society for Industrial Ecology (ISIE)

The International Association of Applied Psychology (IAAP)

The Society for Personality and Social Psychology

## RESEARCH EXPERIENCE

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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

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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

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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

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Chinese: Fluent

English: Proficient

Japanese: Primary