

Yilong Wu

[Research Gate](#) | [github](#) | [Bilibili](#)

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*All underlined text can be clicked to access corresponding webpages

EDUCATION

Curtin University

Dec 2025 - Present

- **PhD in Construction Management – In progress**
- **Supervisor:** Dr. Yongze Song
- **Research Focus:** Geospatial theories and methods, spatial statistics

Fujian Normal University

Sep 2020 - Jun 2024

- **Bachelor of Geographic Information Science(GIS)**
- **GPA:** 3.67 / 5 (Ranked **1st** in Cohort)
- **Honors & Awards::**
 - Excellent Intern Award
 - Excellent Undergraduate Thesis
 - Excellent Graduate Award

Feng Chia University

Sep 2022 - Jun 2023

- Fujian-Taiwan Cooperation Project.
- **GPA:** 4.53 / 5 (Ranked **1st** in Cohort)

PUBLICATIONS

- [1] **Wu, Y.**, Chen, Y., Zhang, R., Cui, Z., Liu, X., Zhang, J., Wang, M., & Wu, Y. (2023). A spatial information extraction method based on multi-modal social media data: A case study on urban inundation. **ISPRS International Journal of Geo-Information**, 12(9), 368. <https://doi.org/10.3390/ijgi12090368>
- [2]**Wu Y.**, Wang X., Song Y. (2025). Explainable Second-Dimension Spatial Association between Park Sentiment and Built-Social Environments. **Cities**. Under Review.
- [3]Luo, P., **Wu, Y.**, & Song, Y. (2026). Focal-feature regression kriging. **Geographical Analysis**, 58(2), e70035. <https://doi.org/10.1111/gean.70035>
- [4]Qin, X., **Wu, Y.**, Huang, H., Yang, X., & Gao, L. (2025). Impact of impervious surface spatial morphologies on urban waterlogging: Insights from a cascade modeling chain at catchment scale. **Sustainable Cities and Society**, 134, 106912. <https://doi.org/10.1016/j.scs.2025.106912>
- [5] Qin, X., **Wu, Y.**, Lin, T., & Gao, L. (2023). Urban flood dynamic risk assessment based on typhoon rainfall process: A case study of Typhoon “Lupit” (2109) in Fuzhou, China. **Remote Sensing**, 15(12), 3116. <https://doi.org/10.3390/rs15123116>
- [6] **Wu, Y.**, Yu, S., Chen, Y., Liu, X., & Cui, Z. (2025). Risk assessment of waterlogging by fusing multi-source

SCHOLARSHIP

Academic Scholarship, FCU (1st in Cohort)	2023
Academic Scholarship, FCU (2nd in Cohort)	2023
Outstanding Scholarship, FJNU (TOP 3%)	2023
Outstanding Scholarship, FJNU (TOP 3%)	2022

COMPETITIONS

2023 ESRI Cup Chinese University GIS Software Development Competition	2 nd prize
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2023 National College Student Surveying and Mapping Discipline Innovation Smart Competition	2 nd prize
2022 ESRI Cup Chinese University GIS Software Development Competition	1 st prize
2022 National University GIS Application Skills Competition	2 nd prize
2021 National University GIS Skills Competition	3 rd prize

Academic Activity Honors

2024 Graduate Summer School of "Geographic Big Data and Spatial Intelligence"	Excellent report & Excellent Student
2023 Graduate Summer School of "Geographic Big Data and Spatial Intelligence"	Qualified Students
2023 National Engineering Research Center for Geographic Information System Campus Open Day	Outstanding Camper
2023 Capital Normal University Outstanding College Student Summer Academic Camp	Qualified Graduation
2022 The second domestic geographic model training	Qualified Graduation
2022 Graduate Summer School of "Geographic Big Data and Spatial Intelligence"	

PROFESSIONAL EXPERIENCES

Main Road Western Australia——Research Assistant

2025.09-2026.03

- Developed automated workflows for preprocessing and modelling road performance data across Western Australia.
- Collected and processed large-scale Google Street View imagery (2022 & 2024), enabling automated data retrieval and Green View Index (GVI) computation.
- Extracted multi-scale NDVI (2022 & 2024) and constructed an integrated NDVI–GVI dataset for cross-scale roadside vegetation analysis.
- Analysed the combined effects of background vegetation and roadside vegetation on pavement performance, and regularly reported findings to government stakeholders to support evidence-based maintenance decisions.

Fujian Provincial Coalfield Geology Bureau, China

2023.11-2024.01

Data Processing Engineer

- Conducted 1:10,000 scale geological disaster risk survey, assessment mapping, and corresponding data processing in Fuqing City.
- Participated in the "Two Reservoirs Connection" project for Fujian Province, conducting comparison and verification.
- Assisted engineers in completing other necessary tasks.

Certain Provincial Emergency Management Science Research Institute, China

2023.12-2023.12

Data Processing Engineer (Remote Internship)

- Built a comprehensive risk assessment project for urban waterlogging in a specific area using a model builder according to the plan
- Trained relevant technical staff.

GeoScene Information Technology Co., Ltd., China

2023.03-2023.06

Outstanding Campus Ambassador of the Marketing Department

- Prepared materials required for competition promotion with diligence.
- Patiently answered various questions from students at my university regarding the competition.
- Actively and proactively completed promotional tasks arranged by the department.