

# Huaqing Wu

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## EDUCATION

<b>Beijing Normal University, Faculty of Geographical Science</b>	<i>Beijing, China</i>
Msc, <i>Safety Science and Engineering</i> , GPA: 3.6/4 Supervisor: <a href="#">Zhao Zhang (ResearchGate)</a>	<i>Sep. 2021–Jun. 2024</i>
<b>Central China Normal University, College of Urban and Environmental Science</b>	<i>Wuhan, China</i>
Bsc, <i>Geographical Science</i> , GPA: 3.5/4	<i>Sep. 2017–Jun. 2021</i>

## HONORS

JINGCHENG Scholarship, Central China Normal University (**top 1%**, 12 spots per year)  
Outstanding Undergraduate, Central China Normal University

## Research Experience

- **Production of Asia Rice Yield Dataset** *May. 2021-Feb. 2023*
  - Generating a seasonal 4 km resolution rice yield dataset across Asia for 1995–2015 by machine learning
  - Publishing one dataset in [Zenodo](#) and two papers in [Earth System Science Data](#) (Co-first author, ranked first) and [Remote Sensing](#) (Second author), respectively
  - Receiving CNY 20,000 (€ 2,615) funding by Key Laboratory of Ministry of Education, CN (**Project leader**) and achieving an **excellent rating** in the final evaluation (only 3 out of 24)
- **China food consumption from a sustainable perspective** *Feb. 2023- Present*
  - Construction of one food quantity model for eating away-from-home and assessment of differences in structure and nutritional quality with eating at home (Manuscript preparation)
  - Optimizing China food intake at home and away-from-home from an environmental and health perspective (In the plan)
- **Water environmental and ecological assessment** *Oct. 2018- May. 2021*
  - Environmental risk assessment of industrial enterprises in one drinking water source area, published in *Sustainability* (Responsible for formal analysis, visualization and writing, Second author)
  - Water ecological civilization evaluation of urban agglomerations in China based on entropy method, published in *Ecological Indicators* (Responsible for methodology software, formal analysis, and writing, Second author)
  - Urban flood resilience evaluation based on disaster response process (Undergraduate thesis, Poster presentation in 2021 Annual Chinese City Planning Conference)
- **Soil erosion and rill development processes comparison** *Apr. 2019- Aug. 2020*
  - Comparing erosion and rill development processes by simulated upslope inflow in two red soils from subtropical China, published in *Catena* (Responsible for software, formal analysis, visualization and writing)
  - Receiving CNY 6,000 (€ 783) funding by Central China Normal University, CN (Project participator) and achieving an **excellent rating** in the final evaluation (only 2 out of 18)

## Work experience

- **Munich Reinsurance Company, Beijing Branch** *May. 2023-Jul. 2023*  
*Intern in Agro & Actuarial Team, Greater China Non-Life*
  - Assisting the underwriter in the applying to the headquarters for the purchase of Chinese meteorological station data (€ 3,198,360)

- Conducting research for forest parametric carbon storage insurance, ecological index insurance and 3s technology application in Agro insurance
- **Beijing Normal University** Feb. 2022-Jun. 2022  
Teaching assistant for Safety Statistics (Graduate level course), Spring
- Designed and delivered courses on data processing, visualization and web scraping and projects on constructing COVID-19 transmission models and assessing health risks related to extreme temperatures based on R language.
- Contributed to chapters four and eight of the course textbook '*Geographic Big Data and Public Health: R Language Application Practice*,' covering visualization and project on extreme temperatures and public health.
- **Second Senior High School of Yingkou, Liaoning, China** Oct. 2020-Dec. 2020  
High school geography teacher
- Teaching courses on water cycle, properties and movements of seawater, vegetation, etc.
- Assisting the class teacher in class management and organizing class meetings.

## SKILLS AND INTERESTS

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Languages: Chinese(native), English (CET-4: 535, CET-6: 574, IELTS: preparing for the exam in August)

Programming: MATLAB, R, Python (beginner)

Software: ArcMAP, SPSS, Origin, Illustrator, Zotero, Microsoft Office

Interests: Beijing Opera, Stamps and postcards collection

## PUBLICATION

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➤ Journal papers: (\* Corresponding author # Co-first author)

[6] **H. Wu**#, J. Zhang#, et al. 2023. AsiaRiceYield4km: seasonal rice yield in Asia from 1995 to 2015, *Earth System Science Data*. (IF=11.815)

[5] J. Zhang, **H. Wu**, et al. 2022. Asian Rice Calendar Dynamics Detected by Remote Sensing and Their Climate Drivers, *Remote Sensing*. (IF=5.349)

[4] P. Tian, ... **H. Wu**, W. Zhang, 2022. Comparing erosion and rill development processes by simulated upslope inflow in two red soils from subtropical China, *Catena*. (IF=5.198)

[3] P. Tian\*, **H. Wu**, et al., 2021. Evaluation of urban water ecological civilization: A case study of three urban agglomerations in the Yangtze River Economic Belt, China, *Ecological Indicators*. (IF=4.958)

[2] T. Wu, **H. Wu**, et al., 2020. Climate Change and Vegetation Evolution during the Transition from Marine Isotope Stage 5 to 4 Based on Two Typical Profiles at the Southern Chinese Loess Plateau, *Sustainability*. (IF=3.251)

[1] P. Tian, **H. Wu**, et al., 2019. Environmental Risk Assessment of Accidental Pollution Incidents in Drinking Water Source Areas: A Case Study of the Hongfeng Lake Watershed, China, *Sustainability*. (IF=3.251)

➤ Conference papers:

[1] **H. Wu**, J. Fang, et al., 2021. Urban flood resilience evaluation based on disaster response process, *2021 Annual Chinese City Planning Conference*, Chengdu, China.

➤ Book chapters:

[1] **H. Wu**, et al., 2021. Chapter 4: Data visualization based on R language and Chapter 8: study on extreme temperatures and public health in *Geographic Big Data and Public Health: R Language Application Practice*, edited by Z. Zhang et al. *Science Press*, Beijing, China.

➤ Data sets:

[2] Q. Mei, ..., **H. Wu**, F. Tao, 2022. A 1km resolution dataset of planting area of three staple crops in China during 2009-2015 V2 (ChinaCropArea1kmV2), *Science Data Bank*.

[1] **H. Wu**#, J. Zhang#, et al., 2022. AsiaRiceYield4km: Seasonal Rice Yield in Asia from 1995 to 2015, *Zenodo*.