

# CHEN CHU

Institute of Geographic Sciences and Natural Resources Research  
Chinese Academy of Sciences  
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## EDUCATION

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### University of Chinese Academy of Sciences

*Beijing, China*

Master of Philosophy, Geographic Information Science

*2021-2024*

Advisor: Professor **Feng Lu** and Associate Professor **Hengcai Zhang**

Institute of Geographic Sciences and Natural Resources Research

Chinese Academy of Sciences

### Yunnan University

*Kunming, China*

Bachelor of Science, Geographic Information Science

*2017-2021*

Advisor: Associate Professor **Fei Zhao**

School of Earth Sciences

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## AWARDS AND HONORS

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- 2023 Second place at ACM SIGSPATIAL Student Research Competition
- 2023 ACM SIGSPATIAL Student Travel Grant
- 2023 First Class Director's Scholarship of IGSNRR, CAS (top 15%)
- 2023 First Class Academic Scholarship of IGSNRR, CAS
- 2023 Merit Student of University of Chinese Academy of Science
- 2022 First Class Academic Scholarship of IGSNRR, CAS
- 2022 Merit Student of University of Chinese Academy of Science
- 2022 Outstanding Student Award of University of Chinese Academy of Science
- 2021 Principal's Scholarship of Yunnan University (10 out of all 4000+)
- 2021 Outstanding Bachelor's Thesis Award of Yunnan Province
- 2020 National Scholarship (Top 0.5%)
- 2020 Excellent Student Cadre of Yunnan Province

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## PUBLICATIONS

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- 2024 **Chen Chu**, Hengcai Zhang, Feng Lu. Assessing Impacts of the Russia-Ukraine Conflict on Global Air Transportation: from the View of Mass Flight Trajectories. *Journal of Air Transport Management*, 115, 102522.
- 2024 **Chen Chu**, Hengcai Zhang, Feng Lu. Simulating Human Mobility with a Trajectory Generation Framework Based on Diffusion Model. *International Journal of Geographical Information Science*, 1-21.

- 2023 **Chen Chu**, Hengcai Zhang, Feng Lu. TrajGDM: A New Trajectory Foundation Model for Simulating Human Mobility. ACM SIGSPATIAL 2023, 1-2.
- 2023 **Chen Chu**, Hengcai Zhang, Feng Lu. DeepIndoorCrowd: Predicting Crowd Flow in Indoor Shopping Malls with an Interpretable Transformer Network. Transactions in GIS, 27, 1699–1723.
- 2022 **Chen Chu**, Hengcai Zhang, Feng Lu. Inferring Consumption Behavior of Customers in Shopping Malls from Indoor Trajectories. Journal of Geo-Information Science, 24(6): 1034-1046.
- 2021 Fei Zhao, **Chen Chu**, Rui Liu, et al. Assessing Light Pollution Using POI and Luojia1-01 Night-Time Imagery from a Quantitative Perspective at City Scale. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 14, 7544-7556.
- 2022 Zhengbao Sun, Lizhen Wang, **Chen Chu**. Outlier Reconstruction of NDVI for Vegetation-Cover Dynamic Analyses. Applied Sciences, 12(9), 4412, 2022.
- 2023 Fei Zhao, Zhiyan Peng, Qian Jiangkang, **Chen Chu**. Detection of geothermal potential based on land surface temperature derived from remotely sensed and in-situ data. Geospatial Information Science, 1-17, 2023.

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## RESEARCH EXPERIENCE

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### Digital Mapping for Large Underground Space

2021.10-2025.10

- Funded by National Key Research and Development Program of China.
- Designed the data collecting method and formed standardized underground 3D datasets.

### Lancaster University, Environmental Science Summer School

Lancaster, UK

2019.7-2019.8

- Researched and modeled the effect of pollution on a location river with spatial analysis.
- Delivered a speech at the closing ceremony of the summer school as the student representative.

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## SKILLS

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**TOEFL:** 104 (Speaking:24, Writing:26, Reading:28, Listening:26)

### AWARDS:

2<sup>nd</sup> place of 2023 China University Basketball League Beijing Division with the University of Chinese Academy of Sciences

5<sup>th</sup> place of 2019 China University Basketball League Yunnan Division with the Yunnan University