



Xingyu Chen (陈星宇)

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I'm now with the State Key Laboratory of Lunar and Planetary Science, Macau, China. My research interests include the prediction of the astrophysical and astrochemical attributes of asteroids utilizing machine learning, deep learning, or even large models.

Education

Date	Institution	Degree	Major
2025-present	Macau University of Science and Technology (State Key Laboratory of Lunar and Planetary Science)	Master	Earth and Planetary Science
2021-2025	Jilin University, China	Bachelor	Geographic Information Science

Skills

Language	Programming
English: CET6-572	Geo-AI engineer fluent in multi-language dev & production-grade algorithm delivery;
Arabic: Elementary	ArcGIS Pro/MapGIS/SuperMap/ENVI power user;
Chinese(Mandarin): Native speak	Built/ops private-cloud cluster, maintaining for JLU RS-GIS lab; OSS contribution: gopeed-extension-huggingface, Cloudpods, FastChat.

Honors

- Outstanding Student Oral Presentation of The Third National Conference of Data-driven Earth Science Development (Fusion of AI and Earth System Science), 2025
- Full Scholarship for Excellent Academic Achievement, Macau University of Science and Technology, 2025
- Meritorious Winner(First Prize, top 4%), The Mathematical Contest in Modeling (MCM, COMAP), 2024
- Honorable Mention(Second Prize, top 20%), The Mathematical Contest in Modeling (ICM, COMAP), 2022 and 2023
- Provincial Third Prize, National College GIS Skills Competition-Remote Sensing Analysis Group, 2022
- Second Prize, Jilin University Scholarship, 2022
- Provincial Second Prize, China Undergraduate Mathematical Modeling Contest, 2022
- Second Prize, MathorCup High School Mathematics Model Challenge - Large Number Challenge, 2022

Publications

1. ResGAT-F: a novel graph neural network-based approach for evaluating landing suitability in the lunar southern polar region (*International Journal of Digital Earth*, 2025) – Third author
2. Graph attention network-based mineral prospectivity prediction: A case study of copper exploration in eastern Tien Shan, China (*Ore Geology Reviews*, 2025) – Fourth author
3. Construction technology of super-agents for intelligent mineral resources prediction driven by large model (Chinese) (*Earth Science Frontiers*, 2025) – Fourth author

Patents & Softwares

1. Lunar Landing Site Evaluation System Based on ResGAT-F (Copyright No. 2025SR0857324, China)
2. Lunar Rille Auto-Detection System Based on Deep-Learning Semantic Segmentation (Copyright No. 2025SR0857259, China)
3. Lunar Landing Site Assessment System Based on Self-Organizing Map (SOM) (Copyright No. 2025SR0859061, China)

International Conferences & Workshops/Schools

1. The Third National Conference of Data-driven Earth Science Development (Fusion of AI and Earth System Science)
2. 23rd Annual Conference of the International Association for Mathematical Geosciences (IAMG2025)
3. The 9th China Symposium on Artificial Intelligence and Big Data Earth Sciences and the 4th Summit Forum on Space Earth Big Data, 2025