

Kai Ren

Ph.D Candidate

Date of Birth: May 17, 1993

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EDUCATIONS

- 2020/09 - Present** **Northwest A&F University**
State Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau, Institute of Soil and Water Conservation | College of Natural Resources and Environment
Major in Land Resources and Spatial Information Technology
- 2016/09 - 2019/06** **NanJing Normal University** (Master Degree)
Key Laboratory of Virtual Geographic Environment, Ministry of Education | School of Geography
Major in Cartography and Geographic Information System
- 2012/09 - 2016/06** **Northwest A&F University** (Bachelor Degree)
College of Natural Resources and Environment
Major in Geographic Information System

RESEARCH EXPERIENCE

- 2021/05 - Present Temperature Interpolation Inversion in the Loess Plateau
- 2020/09 - Present Xinjiang Cotton Digital Agriculture Decision Management System
- 2017/04 - 2018/05 Remote Sensing Monitoring and Early Warning System of Cyanobacteria Bloom in Dianchi Lake
- 2016/09 - 2017/01 Groundwater Vulnerability Assessment in Pizhou City
- 2013/12 - 2015/06 Numerical Simulation and Mechanism of Micro Topography on Loess Slope Farmland

RESEARCH INTERESTS

- Climate Change and Meteorological element interpolation
- Remote Sensing, GIS
- Research and development of agricultural management system software

WORK SKILLS

- Proficiency in ArcGIS, Erdas and ENVI.
- Master programming language Python, R, C and Java
- Proficient in using programming software RStudio, Pycharm, Visual Studio and MATLAB etc.

COMPUTER COPYRIGHT

- 2019 Structural plane recognition and intelligent analysis system of layered geological body
- 2018 Simulation system of cyanobacteria bloom drift in Dianchi Lake
Simulation system of total suspended solids in large water body
- 2017 3D modeling and analysis system of underground space | Hydrogeological modeling and simulation system
Dynamic visualization system of geoscience model simulation
Multi dimensional grid adaptive generation system for Geoscience simulation

AWARDS AND HONORS

- 2023 One of the organizers of an international academic conference, City+2023@Perth, Australia, with the theme of Geospatial Big Data and Artificial Intelligence for Cities
- 2022 Won the Bronze Award in the 11th Challenger Cup Shaanxi University Student Entrepreneurship Plan Competition
- 2022 Participated in the 10th Challenge Cup College Student Entrepreneurship Plan Competition of Northwest A&F University and won the silver award in the final
- 2021 First-class scholarship of Northwest A&F University
- 2019 Outstanding graduate of Nanjing Normal University
- 2018 Excellent postgraduate of Nanjing Normal University (Four times)
- 2016 Outstanding Undergraduate Thesis of Northwest A&F University
First-class scholarship of Nanjing Normal University (Two times)
- 2015 The National Science and Technology Innovation Project Numerical Simulation and Mechanism Research of Loess Slope Cultivated Land Microtopography won the Excellence Award
- 2014 Organize the activity of Three Visits to the Countryside in Ansai Experimental Station, and won the Excellent Award