

# Kai Ren

Ph.D Candidate

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## EDUCATIONS

2020/09 - Present	<b>Northwest A&amp;F University</b> <b>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</b> Major in Land Resources and Spatial Information Technology
2016/09 - 2019/06	<b>NanJing Normal University</b> (Master Degree) <b>Key Laboratory of Virtual Geographic Environment, Ministry of Education   School of Geography</b> Major in Cartography and Geographic Information System
2012/09 - 2016/06	<b>Northwest A&amp;F University</b> (Bachelor Degree) <b>College of Natural Resources and Environment</b> 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	Organize an international academic conference, City+@Perth, 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