Kai Ren
Ph.D Candidate

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EDUCATIONS

2020/09 - Present

Northwest A&F University | Curtin 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 Greenspace Exposure
- 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, Pyharm, 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

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", "Investigation Service in Ansai Comprehensive Test Station of Soil and Water Conservation", and won the "Excellent Award" at the school level

Updated in January 2023