

Kai Ren

Ph.D. Student

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EDUCATIONS

Mar. 2023 - Current	<i>Visiting Research Associate</i> , GeoSpatial Analysis and Climate Change, School of Design and the Built Environment, Curtin University , Australia
Sep. 2020 - Current	<i>PhD Student in Agr.</i> , Land Resources and Spatial Information Technology, 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, Northwest A&F University , China
Sep. 2016 - Jun. 2019	<i>M.S in Sci.</i> , Cartography and Geographic Information System, Key Laboratory of Virtual Geographic Environment, Ministry of Education, School of Geography, Nanjing Normal University , China
Sep. 2012 - Jun. 2016	<i>B.A. in Sci.</i> , Geographic Information System, College of Natural Resources and Environment, Northwest A&F University , China

RESEARCH EXPERIENCE

Mar. 2023 - Current	Identifying Climate and Environmental Determinants of Spatial Disparities in Wheat Production Using a Geospatial Machine Learning Model
May. 2021 - Mar. 2023	Temperature Interpolation Inversion in the Loess Plateau
Sep. 2020 - Aug. 2022	Xinjiang Cotton Digital Agriculture Decision Management System
Apr. 2017 - May. 2018	Remote Sensing Monitoring and Early Warning System of Cyanobacteria Bloom in Dianchi Lake
Sep. 2016 - Jan. 2017	Groundwater Vulnerability Assessment in Pizhou City

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 the 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	Presentation at the International Conference, City+2023@Perth, at Session 5 with the theme of Spatial methods.		
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		