

BASIC INFORMATION	Add.: Columbia, Missouri, USA	
	Email: grxmqq@missouri.edu	
	ResearchGate: <a href="https://www.researchgate.net/profile/Guojie-Ruan">https://www.researchgate.net/profile/Guojie-Ruan</a>	
RESEARCH INTERSETS	Precision nitrogen management	
	Agroecosystem remote sensing	
	Cropland soil health	
	Plant phenotyping	
EDUCATION	University of Missouri, Columbia, USA	2024-2028
	Precision and Automated Agriculture Lab	
	PhD student in Plant Science	
	Nanjing Agricultural University, Nanjing, China	2020-2023
	National Engineering and Technology Center for Information Agriculture	
	M.Sc., Crop Cultivation and Farming, “Double First-class” disciplines	
RESEARCH EXPERIENCE	Thesis: Winter wheat smart nitrogen recommendation algorithms based on multi-source data fusion	
	South China Agricultural University, Guangzhou, China	2016-2020
	B.Sc., Agronomy (Ding Ying Innovation Class), “Double First-class” disciplines	
	Overall GPA: 4.04/5.0	
	Completing the Graduation Project of Undergraduate	
	<ul style="list-style-type: none"><li>• Project name: Comparative study on Seed Storability of Chinese Soybean Landrace Population.</li><li>• Advisor: Professor Cunyi Yang</li><li>• Conducted controlled deterioration treat using 364 soybean varieties.</li><li>• Collected germination index of seed vigor and provided data for GWAS.</li></ul>	
RESEARCH EXPERIENCE	Participating in Jiangsu Provincial Key R&D Program	
	<ul style="list-style-type: none"><li>• Project name: Precision Design and Engineering Implementation of Intelligent Production Management Prescriptions for Rice and Wheat.</li><li>• Advisor: Professor Qiang Cao</li><li>• Developed data-driven based winter wheat topdressing nitrogen management framework with proximal sensing, meteorological, and soil information.</li><li>• Writing project applications and research papers.</li><li>• Led a ‘College Students’ Innovative Entrepreneurial Training Plan Program’ undergraduate team and obtained national funding.</li></ul>	

<b>JOURNAL</b>	Publication Metrics: 73 citations in total, accessed on 28 November 2024.	
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. <b>Ruan, G.</b>, Li, X., Yuan, F., Cammarano, D., Ata-UI-Karim, S. T., Liu, X., Tian, Y., Zhu, Y., Cao, W., Cao, Q.*, 2022. Improving wheat yield prediction integrating proximal sensing and weather data with machine learning. <i>Computers and Electronics in Agriculture</i>, 195, 106852. Doi: 10.1016/j.compag.2022.106852 (IF<sub>5</sub>=8.3, Q1)</li> <li>2. <b>Ruan, G.</b>, Schmidhalter, U., Yuan, F., Cammarano, D., Liu, X., Tian, Y., Zhu, Y., Cao, W., Cao, Q.*, 2023. Exploring the transferability of wheat nitrogen status estimation with multisource data and Evolutionary Algorithm-Deep Learning (EA-DL) framework. <i>European Journal of Agronomy</i>, 143, 126727. Doi: 10.1016/j.eja.2022.126727 (IF<sub>5</sub>=5.9, Q1)</li> <li>3. <b>Ruan, G.</b>, Cammarano, D., Ata-UI-Karim, S. T., Liu, X., Tian, Y., Zhu, Y., Cao, W., Cao, Q.*, 2024. Investigating data-driven approaches to optimize nitrogen recommendations for winter wheat. <i>Computers and Electronics in Agriculture</i>, 220, 108857. Doi: 10.1016/j.compag.2024.108857 (IF<sub>5</sub>=8.3, Q1)</li> </ol>	
<b>AWARDS</b>	National Scholarships, Ministry of Education, China Outstanding Graduate Student of NJAU Outstanding Graduate Student of SCAU First-Class Academic Scholarship of NJAU Third-Class Academic Scholarship of SCAU Excellent Master Dissertation Award of NJAU Excellent Master Dissertation Award of Jiangsu Province	2022 2023 2020 2021 2018 2023 2024
<b>SKILLS</b>	Language: Chinese (Native), English, Cantonese (Native) Computer Programming: Python, R Software: ENVI, ArcGIS, SPSS Statistics Interests: Photography, Swimming	