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New Mexico State University

Fully Funded Ph.D. Positions in AI for Agriculture

POSITION DESCRIPTION

The Niu Lab at New Mexico State University is recruiting multiple highly motivated Ph.D. students to join the Department of Computer Science and conduct research at the intersection of artificial intelligence, machine learning, deep learning, computer vision, robotics, and agriculture. Under the supervision of Dr. Haoyu Niu, students will collaborate with NMSU's Institute for Applied Practice in AI and Machine Learning (IAAM), the College of Agricultural, Consumer, and Environmental Sciences, and the NMSU Agricultural Experiment Station. Each position includes a stipend, tuition coverage, health insurance, and conference travel support. The anticipated start date is **spring or fall 2027**.

QUALIFICATIONS

- B.S. or M.S. degree in Computer Science, Computer Engineering, Electrical or Electronic Engineering, Mechanical Engineering, Agricultural Engineering, or a closely related field.
- Academic background or strong research interest in one or more of the following areas:
 - Artificial intelligence, machine learning, including deep learning and reinforcement learning
 - Computer vision and multimodal sensing
 - Robotics and autonomous systems, including unmanned aerial and ground vehicles
 - Digital twins and simulation for agricultural systems
- Proficiency in C++ or Python; experience with ROS or ROS 2 is desirable.
- Willingness to conduct field experiments.
- Strong written and oral communication skills and the ability to work effectively in an interdisciplinary research team.

HOW TO APPLY

Interested applicants should email (1) a CV, (2) academic transcripts, and (3) samples of relevant work, such as publications, project reports, or a portfolio, to Dr. Haoyu Niu at hniu@nmsu.edu. Please use **"Your Name_PhD Application"** as the subject line. Applications will be reviewed as they are received until all positions are filled. Shortlisted applicants will be invited to a virtual interview.

ABOUT THE PI

Dr. Haoyu Niu earned his Ph.D. in Electrical Engineering and Computer Science from the University of California, Merced, in 2022. His research lies at the intersection of artificial intelligence, computer vision, autonomous robotics, and precision agriculture, with a particular focus on AI-enabled robotic systems for crop monitoring. His work integrates vision-based sensing, autonomous navigation, sensor fusion, and intelligent decision-making to develop practical technologies for productive and sustainable agriculture.