

Graduate Students Round Ten (first awarded in 2023):

- **Irina Filina**, Assistant Professor, UNL Earth and Atmospheric Sciences, for the project: *Gravity and seismic measurements over Nebraska aquifers to detect seasonal changes in water level* Student: **Kaitlin Steinauer**, M.S., Geology
- **Lilyan Fulginiti**, Professor, UNL Agricultural Economics, for the project: *Optimal Groundwater Management Policies for the High Plains Aquifer: Taxes, Quotas and Water Markets* Student: **Bruno Chaves Morone**, Ph.D., Agricultural Economics (expected graduation: May 2024)
- **Troy Gilmore**, Associate Professor, UNL School of Natural Resources, for the project: *Advancing environmental sensing through fixed ground-based camera imagery* Student: **John Stranzl**, Ph.D., Natural Resources
- **Kristina Kintziger**, Professor of Health & Environment, UNMC Environmental, Agricultural & Occupational Health, for the project: *Detection of Poly- and Perfluoroalkyl Substances in Nebraska Drinking Water and Exposure Assessment in Adult Rural and Service Member Populations* Student: **Sarah Tucker**, Ph.D., UNMC Toxicology, Environmental Health & Occupational Health (expected graduation: December 2026)
- **Taro Mieno**, Associate Professor, UNL Agricultural Economics, for the project: *Drought Impacts on Cattle Stocking Density and Land Use* Student: **Shara Akat**, Ph.D., Agricultural Economics
- **Eleanor G. Rogan**, Interim Chair, UNMC Dept. of Health Promotion, for the project: *Possible correlation between exposure to agrichemicals and pediatric cancer or birth defects* Student: **Jabeen Taiba**, Ph.D., Health Practice & Medical Education
- **Saleh Taghvaeian**, Associate Professor, UNL Biological Systems Engineering, for the project: *Improving water and nutrient management under center pivot irrigation in south-central Nebraska* Student: **Thais Murias Jardim**, Ph.D., Biological Systems Engineering
- **Mehmet Vuran**, Professor, UNL School of Computing, for the project: *Fast-LoRa: High-Throughput and Long-Range Wide Area Networks for Advanced Connectivity and Automation in Agricultural Fields* Student: **Sangwon Shin**, Ph.D., Computer Science
- **Hongfeng Yu**, Associate Professor, UNL School of Computing, for the project: *Revealing Dynamic Spatial Patterns of Groundwater Quality Modeling* Student: **Xinyan Xie**

Hubbard Fellowships:

- **Shannon Bartelt-Hunt**, Professor and Dept. Chair, UNL Civil and Environmental Engineering, for the project: *Connecting AntiMicrobial Resistance, Agricultural Decisions, and Environmental Systems: A tool for mitigating AMR and assessing risk to human health in agro-ecosystems* Student: **Moriah Brown**, for a Ph.D. in Environmental Engineering
- **Michael Kaiser**, Assistant Professor, UNL Agronomy & Horticulture, for the project: *Sustainable soil management strategies to improve water retention and quality in agricultural systems* Student: **Britt Fossum**, Ph.D., Agronomy

Graduate Students Round Nine (first awarded in 2022):

- **Trenton Franz**, Associate Professor, UNL School of Natural Resources, for the project: *Investigating proximal gamma-ray sensor for soil moisture monitoring* Student: **Sophia Becker**, Ph.D., Hydrological Sciences
- **Mary Harner**, Research Professor, UNK Communication and Biology, for the project: *Connecting students to natural history and water resource science* Student: **Jamila Bajelan**, M.S., Public Communication

STUDENT SUPPORT AWARDS



- **Aaron Mittelstet**, Assistant Professor, UNL Biological Systems Engineering, for the project: *Vadose Zone Nitrate Accumulation Lower Loup Natural Resources District Area 30, Relation to Manure Application, Fertilizer Management and Groundwater Nitrate Concentrations* Student: **Muili Lawal**, M.S., Biological Systems Engineering (started Jan. 2023)
- **Karina Schoengold**, Associate Professor, UNL Agricultural Economics, for the project: *Assessing Producer Preferences for Conservation Program Participation and Ecosystem Service Provision* Student: **Kaouter Essakkat**, Ph.D., Agricultural Economics
- **Harkamal Walia**, Professor, UNL Agronomy & Horticulture, for the project: *Physiological and molecular analysis of combined heat and drought-stress traits in wheat* Student: **Shohei Oguro**, M.S., Agronomy, Plant Breeding and Genetics
- **Karrie Weber**, Associate Professor, UNL School of Biological Sciences and Department of Earth and Atmospheric Sciences, for the project: *Nitrate-stimulated uranium biogeochemical cycling in soils and sediments* Student: **Taylor Rosso**, Ph.D., Biological Sciences

Hubbard Fellowships:

- **Tsegaye Tadesse**, Research Professor, UNL School of Natural Resources and National Drought Mitigation Center, for the project: *Investigating Complex Drought Impacts on Society and Public Health using Machine Learning* Student: **Beichen Zhang**, Ph.D. Candidate in Natural Resource Sciences/Climate Assessment and Impacts

Research Awards:

- **Osler Ortez**, Assistant Professor, The Ohio State University Horticulture and Crop Science, for the project: *Addressing corn production issues to enhance productivity and close yield gaps* Postdoctoral Fellow: **Izaias Pinheiro Lisboa**
- **Martha Rhoades**, Research Manager, Xenobiotics Laboratory, UNL School of Natural Resources, for the project: DWFII Continued Support of Birth Outcomes and Water (BOW) Study, in collaboration with Kent Eskridge, Professor, UNL Statistics and Troy Gilmore, Associate Professor, UNL School of Natural Resources Student: **Augustine Kena Adjei**, Ph.D., Statistics (started Jan. 2023)

Graduate Students Round Eight (first awarded in 2021):

- **Erin Haacker**, Assistant Professor, UNL Earth and Atmospheric Sciences, for the project: *Modeling Nitrate Contamination in Northeastern Nebraska* Student: tbd
- **Javed Iqbal**, Assistant Professor, UNL Agronomy & Horticulture, for the project: *Optimizing Nitrogen and Water Inputs for Corn Based on Nitrate Leaching* Student: **Arshdeep Singh**, for a Ph.D. in Agronomy
- **Deepak Keshwani**, Associate Professor, UNL Biological Systems Engineering, for the project: *An integrated framework to account for temporal, spatial, and climate variability in the Corn-Water-Ethanol-Beef (CWEB) nexus system* Student: **Heydi Calderon**, for a Ph.D. in Biological Systems Engineering
- **Xu Li, Professor**, Professor, UNL Civil and Environmental Engineering, for the project: *Mitigating the Risk of Manure-Borne Antibiotic Resistance to Surface Water* Student: **Qu Wen**, for a Ph.D. in Civil and Environmental Engineering
- **Bijesh Maharjan**, Assistant Professor & Extension Specialist, UNL Agronomy & Horticulture, for the project: *Optimizing Nitrogen Management in Furrow-Irrigated Corn Field to Increase Grain Yield and Ensure Groundwater Quality* Student: **Deepak Ghimire**, for a Ph.D. in Agronomy

STUDENT SUPPORT AWARDS



- **Daniel Uden**, Assistant Professor, UNL School of Natural Resources and Agronomy & Horticulture, Center for Resilience in Agricultural Working Landscapes, for the project: *Remotely sensed early warning of toxic algal blooms in Nebraska lakes* Student: **Mercy Kipenda**, M.S., SNR

Hubbard Fellowships:

- **Tirthankar Roy**, Assistant Professor, UNL Civil and Environmental Engineering, for the project: *A comprehensive framework to assess flood risk within the context of public health* Student: **Shivendra Srivastava**, Ph.D., Water Resources Engineering

Graduate Students Round Seven (first awarded in 2020):

- **Jessica Corman**, Assistant Professor, UNL Agronomy & Horticulture, for the project: Looking to the past to understand the future of freshwater in the Sandhills Student: **Daniel Gschwentner**, for a Ph.D. Natural Resource Sciences with specialization in Applied Ecology, SNR

Graduate Students Round Six (first awarded in 2019):

- **Jesse Korus**, Assistant Professor, UNL School of Natural Resources, for the project: *Integrating Hydrologic Modeling and Geophysical Characterization to Improve Water Management Tools* Student: **Nafyad Kawo**, for a Ph.D. in Natural Resource Sciences, Specialization: Hydrological Sciences

Undergraduate (annual awards):

- **Katherine Frels**, Assistant Professor, UNL Agronomy & Horticulture, for the project: *The effect of drought-stress conditions on the germination of solid-stem populations of winter wheat, Triticum aestivum*. Student: **Cole Hammett**, B.S. in Plant Biology
- **Platte Basin Timelapse Project:** **Caden Connelly**, Production Intern; **Emily Nelson**, Production Intern; **Grace Carey**, Production Intern; **Marissa Lindemann**, Production Intern; **Josh Nazarenius**, Production Intern; **Rachel Holt**, Storytelling Intern; **Valentina Catalano**, Production Intern; **Elijah Riley**, Production Intern; advised by **Michael Forsberg**, Research Assistant Professor, UNL School of Natural Resources and Producer & Project Manager, **Mariah Lundgren**, UNL School of Natural Resources, and **Michael Farrell**, DWFI Faculty Fellow. While DWFI funds support three interns, the PBT project is leveraging this support in FY24 to support several interns throughout the year.

STUDENT SUPPORT AWARDS

