# Remote Sensing

**Available to MS candidates.**



## Contact Information

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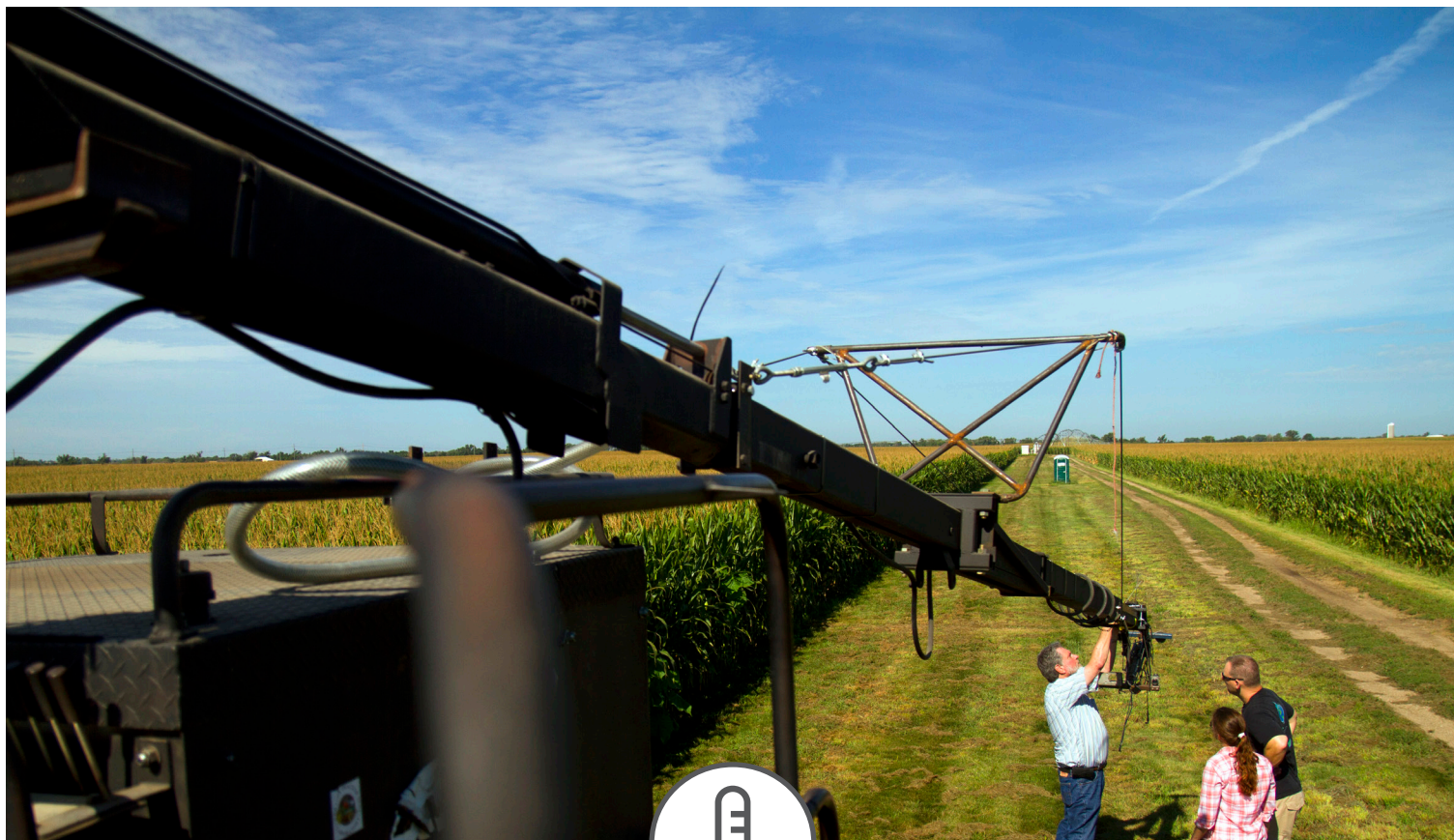Phone: 402-472-5355
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Remote sensing refers to any technique whereby information about objects and the environment is obtained from a distance. The **Remote Sensing** specialization focuses on the collection and analysis of remotely sensed data acquired through sensors deployed:

- at close range in the lab
- operated in the field on various field vehicles and platforms from aircraft and satellites

Remotely sensed data can be applied across a range of spatial scales (e.g., site specific, landscape, or regionally/nationally) for many disciplinary areas.

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UNIVERSITY OF **Nebraska** Lincoln

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

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UNIVERSITY OF
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# REMOTE SENSING

## Faculty Advisors

**Dr. Trenton Franz  |  tfranz2@unl.edu**

Hydrogeophysics

**Dr. John Gamon | jgamon@unl.edu**

Remote sensing at multiple scales, plant biodiversity, plant physiology, evapotranspiration, photosynthesis and respiration, mass and energy exchange

**Dr. Ayse Kilic   |   akilic3@unl.edu**

GIS in water resources, evapotranspiration, remote sensing, climate change, hydrology, crop modeling

**Dr. Tsegaye Tadesse | ttadesse2@unl.edu**

Drought monitoring, natural resource management, team leadership & development, seasonal weather prediction, climate change & variability, human impacts on the environment, remote sensing/GIS, data mining & risk management.

**Dr. Betty Walter-Shea | ewalter-shea1@unl.edu**

Field-based remote sensing, agricultural meteorology, environmental biophysics, bio-atmospheric interactions

**Dr. Brian Wardlow  |  bwardlow2@unl.edu**

Remote sensing, geographic information systems (GIS), vegetation-climate interactions, drought monitoring, biogeography, landscape ecology, remote sensing/GIS applications for agricultural and natural resource management/ monitoring, land use/land cover characterization