

Xiaoyu Wang

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wxystudio.github.io

EDUCATION

Ph.D. in Biological Systems Engineering

01/2023 – 05/2027 (*Expected*)

University of Wisconsin–Madison

Minor: Computer Sciences

B.S. in Computer Science and Technology

09/2017 – 06/2021

Xi'an Jiaotong University

TEACHING EXPERIENCE

Teaching Assistant, BSE 301: Land Information Management

Fall 2026

University of Wisconsin–Madison

Revise lecture slides and answer student questions to support course learning.

Teaching Assistant, BSE 405: Artificial Intelligence in Agriculture

2024

University of Wisconsin–Madison

- Developed homework assignments and step-by-step Google Earth Engine labs covering remote sensing, vegetation indices, time-series analysis, soil properties, and data export.
- Developed eight hands-on machine learning mini-labs for agricultural applications.
- Delivered classroom instruction and led lab sessions; held office hours, answered student questions, graded assignments and student presentations, and provided feedback.

Teaching materials: [GEE Lab 1](#); [Lab 2.1](#); [Lab 2.2](#); [Lab 3](#).

RELEVANT COURSEWORK

F&W ECOL 458: Environmental Data Science — A, Spring 2024.

BSE 301: Land Information Management — A, Fall 2023.

RELEVANT RESEARCH EXPERIENCE

Graduate Research Assistant

01/2023 – Present

University of Wisconsin–Madison

- Conduct research on agricultural and environmental systems using remote sensing and machine learning, including soil-moisture-informed crop yield prediction under drought conditions.
- Built interactive geospatial tools for exploring crop yield predictions, historical comparisons, and model uncertainty.

TEACHING TOOLS & TECHNICAL SKILLS

Course & Documents: Canvas, Microsoft Office, Adobe Acrobat, LaTeX, Overleaf

GIS & Data Analysis: Google Earth Engine, QGIS, ArcGIS, GDAL, Python, MATLAB

ENGLISH-LANGUAGE PREPARATION

Completed ESL 343: Oral Communication Skills and ESL 345: American English Pronunciation at UW–Madison. Received a SPEAK test exemption.