

Jinyu Wang

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EDUCATION

Doctor of Philosophy in Earth Science and Environmental Change Expected May 2026

University of Illinois at Urbana-Champaign

Dissertation title: "Generation of riverine and management induced reactive zone solutes in agricultural watersheds"

Advisor: Professor Jennifer L. Druhan

Bachelor of Science in Geology: Earth and Environmental Science Concentration May 2021

University of Illinois at Urbana-Champaign

GPA: 3.93/4.00

Minor: Earth, Society and Environment

RESEARCH EXPERIENCE

Doctoral Researcher August 2022 - Present

University of Illinois at Urbana-Champaign, Department of Earth Science and Environmental Change

Advisor: Jennifer Druhan

Maintaining the operation of ion chromatography in the RiverLab; processing and cleaning the data from ion chromatography; using python script to make concentration-discharge relations and hysteresis plots of different solutes during different storm events of Sangamon River; comparing solute behaviors across watersheds at different scales

Hydrogeochemistry Lab - Research Assistant February 2020 - May 2021

University of Illinois at Urbana-Champaign, Department of Geology

Advisors: Jennifer Druhan, Jon Golla

Setting up and running ion chromatography to detect anion concentration in water samples from Eel River Critical Zone Observatory; using scripts to analyze data and export plots; conducting quality assurance and quality control on archived ion concentration data

Summer Undergraduate Research Opportunities Program June 2020 - July 2020

University of Illinois at Urbana-Champaign, Department of Geology

Advisors: Trish Gregg, Cristi Proistosescu, Jennifer Druhan, Jon Golla

Project: Examining the deep pyrite oxidation front in Critical Zone weathering profiles

A six-week summer program designed to introduce advanced undergraduates to the foundations of scientific research. Program included weekly meetings to discuss research progress; processed raw results from analytical measurements from Eel River Critical Zone Observatory; excel and python proficiency in application to analysis of reaction fronts and correlation between calcite and sulfate; AGU style talk at virtual symposium.

PRESENTATIONS

AGU 2022, Poster

December 2022

Topic: High frequency event-scale concentration-discharge relationships in two agriculturally impacted rivers

Summer Undergraduate Research Opportunities Program, Virtual Talk

July 2020

Topic: Examining the deep pyrite oxidation front in the Critical Zone

AWARDS & GRANTS

SESE Research Review Outstanding Poster Award

February 2023

Harriet Wallace Outstanding Woman Undergraduate Student Award

April 2020

Geology Alumni Midwest Research Fund

June 2020

SERVICE

Environmental Education Promotion Center - Volunteer

July 2015 – July 2018

Shandong, China

Visited villages around Linqing, Zouping and Dezhou city for field research; helped villager complete questionnaires and collected water samples from their home; gave presentations to primary school students in Jiyang city about the environmental aspects of plastics

Illinois Science Olympiad State Tournament - Volunteer

April 2019

University of Illinois at Urbana-Champaign

Timed the tournament and answered questions during the tournament; graded written evaluations; cleaned up the experimental equipment

SKILLS & ABILITIES

Labwork: Ion Chromatography, wet chemistry procedures

Software: Geochemists' Workbench, CrunchTope, ArcGIS Pro, Microsoft Office

Computing: Python

Language: English (fluent), Chinese (fluent), Japanese (intermediate)