

Yujia (Jasmine) Wan

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Passionate about advancing sustainable environmental solutions across water, energy, and resource systems, I am seeking roles as a process engineer or environmental consultant/scientist. Skilled in project management, data analysis, and technical communication, I aim to bridge science and engineering to create efficient real-world impacts.

WORK EXPERIENCES

Graduate Research Assistant

Berkeley, CA, USA

For Prof. Baoxia Mi, University of California, Berkeley | Part-time

12/2024-Present

- Project 1: Electrified porous electrode integrated reduction-filtration system for Cr (VI) removal (Paper & Thesis).
- Project 2: 3D graphene oxide-based solar evaporator for mineral recovery using realistic brine water.
- Project 3: MoS₂-based filtration system designed by Autodesk Fusion 360 for heavy metal removal.

Teaching Assistant

Online, China

GEC Academy, For Prof. Zhiyong Jason Ren, Princeton University | Part-time

05/2024-07/2024

- Assisted in teaching an online program focused on decarbonization; graded students' homework; led discussion sessions.

Environmental Monitor

Yichang, China

Hubei Xingfa Environmental Technology Company | Internship

03/2023-05/2023

- Assisted in testing and analyzing water/wastewater quality changes; promptly addressed any data anomalies.

Research Assistant

Wuhan, China

For Prof. Zhaohua Li, Dean of Graduate School, Hubei University | Full time

09/2020-08/2021

- Project 1: Assisted professor in writing and revising *The Ecological Civilization Construction Plan of Wuhan City*.
- Project 2: Natural wooden biofilm carriers for decentralized rural wastewater biological treatment.

Undergraduate Research Assistant

Wuhan, China

For Prof. Liya Zhao, Hubei University, China | Part-time

05/2018-05/2020

- Graduation Project 1: *Sewage treatment project design in a mountainous town* (including 14 CAD technical drawings).
- Project 2: Willingness-to-pay for recreation services and its value Assessment (12th Challenge Cup).
- Project 3: The development and status of domestic waste disposal at home and abroad.

Water Engineering Internship

Yixing, China

Yixing Environmental Science and Technology Industrial Park | Internship

07/2019

- Visited local sewage treatment plants; participated in water quality monitoring; operated real-time data software.

SKILLS

- Software Skills:** AutoCAD, Autodesk Fusion 360 (3D design), ArcGIS, SPSS, Python, R, MATLAB, Origin
- Lab Skills:** IC, ICP-MS, UV-Vis, Potentialstat, EQCM-D, MoS₂ synthesis, GO fabrication, Microscopy, Plate Counting
- Soft Skills:** Project Management/ Collaboration, Stakeholder Engagement, Technical Communication, Public Speaking
- Language Skills:** English (Proficient), Chinese (Native), Japanese (Intermediate)

LEADERSHIP & OUTREACH

(CEE)² Ambassador - Civil and Environmental Engineering, UC Berkeley

09/2025-Present

GA Delegate - Graduate Assembly, University of California, Berkeley

08/2025-Present

Committee of Outreach Department - Berkeley China Summit

07/2025-10/2025

Volunteer of Green Ecological Study Tour Class for K-12 Students in Wuhan City

05/2018-11/2018

Committee of Outreach Department - Undergraduate Student Association, Hubei University

05/2016-09/2017

EDUCATION

M.S., Civil and Environmental Engineering, University of California, Berkeley, GPA: 4.0/4.0

08/2024-05/2026

B.E. (with honors), Environmental Engineering, Hubei University (China), GPA: 3.74/4.0

09/2016-06/2020

Outstanding Graduate Award, 2020 | 3rd Prize of the 12th Challenge Cup, 2019 | Excellent Student Leader, 2016