

Yujia 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-driven analysis, and collaborative problem solving, 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 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 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 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 09/2020-08/2021

- Assisted in writing *the Ecological Civilization Construction Plan of Wuhan City*; coordinated with the project leader.
- Project: Natural wooden biofilm carriers for decentralized rural wastewater biological treatment.

Undergraduate Research Assistant **Wuhan, China**
For Prof. Liya Zhao, Hubei University, China 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 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 Engagemet, 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