jja7@illinois.edu | (224) 713-2346 | 306 South Orchard, Urbana IL

Education

University of Illinois Urbana Champaign Bachelor in Environmental Engineering Minor in Atmospheric Sciences

Relevant coursework: Introduction to Computer Science, Systems Engineering & Economics, Engineering Risk & Uncertainty, Engineering Graphics & Design, Energy and Global Environment, Water Resources Engineering

Relevant Experience

CDDS (Climate Dynamics and Data Science) Research Group, UIUC

Climate / Renewable Energy Researcher

- Converting energy-relevant climate data into actionable energy supply values using Python
- Conducting statistical analysis on historical weather data to access the complementarity of wind and solar power integration

Urban Climate AI Lab, UIUC

CEE (Civil and Environmental Engineering) REU (Research Experiences for Undergraduates) Intern

- Investigating urban climate-energy sensitivity using CLMU 3D Data analysis (Community Land Model Urban)
- Producing plots illustrating the relationship between urban temperature and AC / heating consumption on extreme heat/cold days using different metrics
- Conducting literature review on the urban biophysical feedback and the different metrics to identify extreme • heat/cold days

Teacher Assistant (T.A.), UIUC

Teacher Assistant for ATMS 140- Climate and Global Change

- Attending lectures and taking notes
- Grading student homework and entering the grades in the grade book in a timely manner
- Communicating with students in the course via email and online discussion boards
- Holding one office hours per week to answer student questions

Activities and Leadership

Engineers Without Borders, UIUC Chapter

Project Lead, Hopkins Park Wastewater Treatment Plant Rehabilitation Project

December 2021 - August 2023 Leading a team of 15 students in developing plans to rehabilitate a wastewater treatment plant in Hopkins Park, IL

- Presided over the research process to evaluate the efficacy of existing designs and consider alternative • systems and technologies for pipes and valves and the lift station ahead of a re-assessment trip to the village in October 2022
- Coordinating with multiple stakeholders including the local community leaders, non-governmental organizations and field experts to facilitate progress of the project

Skills

Computer Languages and Applications: Python, R, Revit, Microsoft Excel & Suite Non-technical skills: Project Leadership, Social Media Management Languages: French (native), English (fluent), Arabic (fluent)

August 2021 - May 2025 GPA: 3.72/4.00 (Grainger Engineering James Scholar)

June 2023 - Present

August 2023 - Present

August 2021 - Present

January 2022 - Present