Lina Karim

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Research interests: water treatment in hot climates · sand filtration · process modelling · water quality monitoring

EDUCATION

Bachelor of Science in Civil Engineering
Westmere University, Jordan
Sep 2020 to Jun 2024
GPA 3.6 of 4.0 · Final-year project: "Comparing two sand-filter designs on site data", supervisor Dr Samir Aziz · Ranked 4th of 112 in the department (as stated on the transcript)

RESEARCH EXPERIENCE

Research Assistant
Environmental Engineering Laboratory, Westmere University
Sep 2024 to Present (part time)

- Ran weekly turbidity, pH and dissolved-oxygen tests on two pilot sand filters over a 10-month study (about 400 samples); kept the sampling log and quality checks.
- Wrote the sampling protocol now used by the next student cohort.
- Produced monthly data summaries (Excel, R) for the research team.

MANUSCRIPTS UNDER REVIEW

1. **Karim, L.**, & Aziz, S. (2025). *Summer algae growth and filter clogging in a municipal treatment plant* [Manuscript submitted for publication].

CONFERENCE PRESENTATIONS

1. **Karim, L.**, Nasser, H., & Aziz, S. (2026, April). *Ten months of turbidity data from two pilot sand filters* [Paper presentation]. Westmere University Graduate Research Symposium, Amman, Jordan.
2. **Karim, L.** (2025, April). *Comparing two sand-filter designs on site data* [Poster presentation]. Westmere University Graduate Research Symposium, Amman, Jordan.

AWARDS AND SCHOLARSHIPS

Dean's List
Westmere University, Faculty of Engineering
2022 and 2023
For a semester GPA of 3.7 or above

TEACHING

Teaching Assistant, CE 210 Fluid Mechanics Laboratory
Westmere University
Fall 2024
3 lab sections of 20 students (60 in total); marked weekly lab reports

CERTIFICATIONS

Water Quality Sampling and Analysis
Westmere University Continuing Education
Mar 2024

VOLUNTEERING AND LEADERSHIP

Team leader, student river clean-up
Westmere University Environment Club
2023
Led 60 volunteers across 2 sites over one term

SKILLS AND LANGUAGES

Research and technical: water sampling and lab analysis (turbidity, pH, dissolved oxygen), Excel, R (basic statistics), AutoCAD
Languages: Arabic (native) · English (IELTS Academic 7.0, 2024)

REFERENCES

Dr Samir Aziz
Associate Professor of Civil Engineering, Westmere University · s.aziz@example.com · final-year project supervisor

Dr Huda Nasser
Lab Director, Environmental Engineering Laboratory, Westmere University · h.nasser@example.com · research supervisor