

OMAR J. AMARI

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EDUCATION

Northwestern University – The Graduate School | Evanston, IL

MS/PhD, Civil and Environmental Engineering

September 2026

GPA: 3.75/4.00; GRE: 166Q, 154V, 4.0W; TOEFL:109/120

Northwestern University – Kellogg School of Management | Evanston, IL

Management for PhDs Certificate

August 2024

University of Jordan | Amman, Jordan

BS, Civil Engineering

September 2018

GPA: 3.70/4.00; Highest Honors (Excellent); rank: 3/74

RELEVANT EXPERIENCE

Northwestern University Transportation Center | Evanston, IL

Lead Graduate Student Researcher (1 Project)

December 2023 – Present

- Lead a national research project for the United States Department of Transportation to develop a modeling framework for evaluating the safety, mobility, and sustainability impacts of connected and automated vehicles

Graduate Student Researcher (2 Projects)

March 2022 – November 2023

- Developed statistical tools for the Chicago Department of Transportation to continuously monitor and evaluate the safety impacts of 150+ installed red light cameras in the city of Chicago
- Co-built an integrated optimization-simulation platform for the Saudi Ministry of Hajj and Umra to support the management of 1.5 million pilgrims/day during the 4-day Hajj season in Mecca, Saudi Arabia
- Organized 9+ interactive workshops and webinars to discuss the center's analysis and recommendations with 15–50 participants from sponsoring agencies and stakeholders

Consolidated Contractors Company LLC | Seeb, Oman

Control Engineer (1 Project; \$90 million value)

October 2020 – August 2021

- Initiated and led price negotiations for a new construction item that increased project revenues by \$10.7 million
- Trained 2 junior engineers, 2 quantity surveyors, and 2 interns on project progress monitoring and forecasting

Junior Civil Engineer (2 Projects; \$30–\$50 million value)

November 2019 – September 2020

- Managed multiple teams of 60–100 workers to complete a variety of scheduled construction projects, including throughout the early months of the global pandemic

LEADERSHIP EXPERIENCE

Northwestern University | Evanston, IL

Co-president – Advanced Degrees Consulting Alliance (\$10k annual budget; 350+ active members)

February 2025 – Present

- Lead a board of 7 executives to develop and implement a program of workshops and networking socials for Northwestern graduate students to explore and prepare for careers in consulting and to connect with consulting firms
- Restructure the roles of board executives to balance collaboration and work ownership among members

Fellow – Center for Leadership

September 2024 – Present

- Mentor 7 undergraduate students on developing their personal leadership models using Gallup's strength-based approach
- Facilitate group and individual discussions for undergraduate students to deepen their understanding of leadership

Professional Development Co-chair – McCormick Graduate Leadership Council (300+ active members)

September 2023 – Present

- Partner with 12 council members to plan and implement social, academic, outreach, and professional activities for students
- Organize 6 interactive workshops to help graduate students plan and prepare for their careers beyond Northwestern

SELECTED PUBLICATIONS (of 6 publications, 11 presentations)

Amari, O., Johnston, A., and Akesh, R.S., 2024. Machine Learning Approach to Traffic Prediction in a Linked Highway. Accepted for publication in *Transportation Research Record: Journal of the Transportation Research Board*

Amari, O., Lin, K., Johnston, A., and Akesh, R.S., 2024. Traffic Detection in a Linked Environment using Individual Distribution Principles. Accepted for publication in *Transportation Research Record: Journal of the Transportation Research Board*

SKILLS AND INTERESTS

Skills: Microsoft Office, R, Python, Stata, ArcGIS, AMPLE, PRIMVERA P6, AutoCAD, MATLAB, and BIOGEME

Languages: fluent in Arabic; basic knowledge of French

Interests: hiking exotic trails (Petra, Jordan), scenic road trips, and squash