

# Zain Ghazi Al-Kofahi

Assistant Professor of Civil Engineering  
Jordan University of Science and Technology  
P.O. Box 3030, Irbid, Jordan

## PERSONAL

**Name:** Zain Ghazi Abdullah Al-Kofahi  
**Date and Place of Birth:** 01-29-1981 Irbid-Jordan  
**Gender:** Female  
**Marital Status:** single  
**Nationality:** Jordanian  
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## EDUCATION

**Ph.D., Civil Engineering, University of Central Florida, December, 2016.**  
*Dissertation Title: "Dynamic Modelling Approach to Quantify Change Orders Impact on Labor Productivity".*

**M.Sc., Civil Engineering, University of Central Florida, May, 2016.**

**M.Sc., Civil Engineering (Structure), Jordan University of Science and Technology, Irbid - Jordan February, 2007.** *Thesis Title: "Effect of Elevated Temperature on Bond between Reinforcing Steel and Lightweight Aggregate Concrete."*

**B.Sc., Civil Engineering (Structure), Jordan University of Science and Technology, Irbid - Jordan June 2004.**

## PROFESSIONAL EXPERIENCE

### *Teaching Experience*

- **January 2017 - Present**, Assistant Professor of civil engineering, Jordan University of Science and Technology, Irbid, Jordan.
- **September 2008 - December 2011**, Full-Time Lecturer of civil engineering, Jordan University of Science and Technology. Irbid, Jordan.
- **2007 - 2008**, Part-Time Lecturer of civil engineering, Jordan University of Science and Technology. Irbid, Jordan.
- **January 2005- December 2007**, Teaching Assistant, Civil Engineering Department, Jordan University of Science and Technology. Irbid, Jordan.

### *Work Experience*

- 1 year in Department of Public work and housing- Construction section, Irbid Branch, 2005-2006.

## FUNDED RESEARCH

- Effect of adding SiO<sub>2</sub> nanoparticles on the performance of concrete in sulfate environment. Funded by Dean of Scientific Research, Jordan University of Science and Technology.
- BIM Coordination between Architecture, Civil, And Construction Management for Education System in Jordan. Funded by Dean of Scientific Research, Jordan University of Science and Technology.

## COURSES TAUGHT

- CE 201: Statics
- CE 202: Strength of Materials
- CE303: Engineering Economy
- EE 305: Numerical Analysis
- CE 322: Concrete Technology
- CE 326: Construction Materials Laboratory
- CE 332: Structure Analysis I
- CE 333: Reinforced Concrete of Architect Students
- CE570: Engineering Projects and Construction Management
- CE 591-592: Graduation Project
- CE916: Operation Research

## **MASTERS THESIS SUPERVISING**

- Finite element modeling of reinforced concrete beams strengthened using fiber-reinforced polymers: Initial Cost-benefit analysis, by Osama Alghzawi, (2021).
- The behavior of the bond between thermally shocked recycled asphalt pavement concrete and steel bars, by Banan Bani-Baker

## **THESIS COMMITTEE SERVING**

- Repair of Thermally Shocked Reinforced Concrete Beams Using Near Surface Mounted – Carbon Fiber Reinforced Polymers Ropes and Strips, by Raghad Obeidat, (2022)
- Corrosion protection of steel reinforcement using sandwiched zinc oxide and titanium dioxide nanostructures, by Shahnaz Qandeel, (2022)
- Bond Performance of Thermally Shocked Normal and Foam Concrete with Carbon Fiber Reinforced Polymer Sheets Using Different Anchorage Systems, By Yasmeeen Hijazi (2022)

## **WORKSHOPS & TRAINING COURSES:**

- “Introduction to Project Management”, Jordan Ministry of Environment, August 2019; Geneva Hotel, Amman, Jordan

## **Professional Licenses or certificates**

- Member of Jordanian Association of Engineers.

## **Institutional and Professional Service**

- September 2019- September 2021, Assistant Dean, Deanship of Research, Jordan University of Science and Technology, Irbid, Jordan

## **PUBLICATIONS**

- Haddad, R., and Al-Kofahi, Z. "Post-heating bond behaviour between lightweight fibrous concrete and steel." *Structural Concrete*, Vol. 9, no. 4, December 2008, 189-197
- Al-Kofahi, Z. G., Mahdavian, A., and Oloufa A. "A dynamic modelling of labor productivity impacts arising from change orders in road projects." *Canadian Journal of Civil Engineering*, Vol. 49, No. 2, February 2022, pp. 159–170
- Al-Kofahi, Z. G., Mahdavian, A., and Oloufa A. "System dynamics modeling approach to quantify change orders impact on labor

productivity 1: principles and model development comparative study.”  
International Journal of Construction Management, Vol. 22, No. 7, 2022,  
pp. 1355-1366

### **PEER REVIEW ACTIVITIES**

Refereed papers for:

- Jordan Journal of Civil Engineering
- Journal of Facilities Management

### **AWARDS**

Honor degrees in undergraduate and Graduate Studies; Many Semesters on the Dean honor list.

### **COMPUTER SKILLS**

- Spreadsheet: MS-Excel
- Word Processing: MS-word, Power Point, and others.
- Internet Communications
- Matlab Program
- AutoCAD -2D
- Statistical Packages such as SAS and SPSS
- System Dynamics Modeling Software: Vensim
- PRIMAVERA

**REFERENCES:** Available upon request.