

# Dr. Omar Jamal Hammad

Assistant Professor | Human-Computer Interaction Researcher

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## Professional Summary

Assistant Professor in the Department of Information & Computer Science at King Fahd University of Petroleum & Minerals (KFUPM), and Research Scholar at the SDAIA-KFUPM Joint Research Center for Artificial Intelligence. Co-Founder of Etlaq. Research focuses on the intersection of Human-Computer Interaction and AI, with particular interest in software usability, interaction design, user behavior analysis, and social computing.

## Education

### Ph.D. in Computer Science (Human-Computer Interaction)

University of Colorado Boulder, USA

### B.Sc. in Computer Science

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

## Academic & Professional Positions

### Assistant Professor

Dept. of Information & Computer Science, KFUPM | 2022 - Present

### Research Scholar

SDAIA-KFUPM Joint Research Center for Artificial Intelligence | 2022 - Present

### Co-Founder

Etlaq

## Research Interests

- Human-Computer Interaction (HCI)
- Software Usability & User Experience
- Interaction Design
- User Behavior Analysis
- Social Computing
- HCI & Artificial Intelligence
- Environmental Justice & Technology

## Selected Publications

2025

### PUREmotion: Understanding the Impact of Highway Construction on People's Wellbeing

Hammad, O., Hollo, A. K., Clements, N., Miller, S., Mishra, S. & Sullivan, E.

*ASONAM 2024 — Lecture Notes in Computer Science, Springer, pp. 48-57*

2024

### PureConnect: A Localized Social Media System to Increase Awareness and Connectedness in Environmental Justice Communities

Hammad, O., Rahman, M. R., Kanugo, G. K. V., Clements, N., Miller, S., Mishra, S. & Sullivan, E.

*MISNC 2024 — ACM International Conference Proceeding Series, pp. 1-7*

2023

### **PureNav: A Personalized Navigation Service for Environmental Justice Communities Impacted by Planned Disruptions**

Hammad, O., Rahman, M. R., Clements, N., Mishra, S., Miller, S. & Sullivan, E.  
*IEEE/ACM ASONAM 2023, pp. 56-63*

2022

### **Comparing Personal Air Pollution Monitors for Measuring Exposure in Polluted North Denver Neighbourhoods**

Clements, N., Khalili, M. A., Wang, Y. H., Castillo, S. D., Westbrook, M., Serrano-Salomon, V., Hammad, O., Sullivan, E., Mishra, S. & Miller, S. L.  
*Conference Paper*

2022

### **Impact of Work from Home During the Pandemic in Saudi Arabia**

Hammad, O. & Mishra, S.  
*IEEE/ACM ASONAM 2022, pp. 415-420*

## **UN Sustainable Development Goals**

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### **Research contributions aligned with:**

- SDG 3 — Good Health and Well-being
- SDG 8 — Decent Work and Economic Growth
- SDG 16 — Peace, Justice and Strong Institutions

## **Online Profiles**

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**Google Scholar:** <https://scholar.google.com/citations?user=Gdu2VzoAAAAJ>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=58174465700>

**KFUPM Pure:** <https://pure.kfupm.edu.sa/en/persons/omar-hammad>

**LinkedIn:** <https://www.linkedin.com/in/ohammad/>

**ResearchGate:** <https://www.researchgate.net/profile/Omar-Hammad-4>