

ESRAA JAMAL

Assistant Professor of Environmental Planning
Department of Environmental Sciences
College of Life Sciences, Kuwait University
Office: A-3-1021/South building
Email : esraa.jamal@ku.edu.kw
Phone number: +965 50266696

RESEARCH INTERESTS

- **SUSTAINABLE COMMUNITY PLANNING:** Exploring the technical and political dimensions of land use, environmental impact, and quality of life, with a focus on planning for public and active transportation modes.
- **SUSTAINABLE URBAN PLANNING AND DESIGN:** Enhancing walkability and reducing car dependency through human-centered, environmentally responsible urban form.
- **BEHAVIORAL INSIGHTS IN SUSTAINABLE POLICY:** Using travel behavior modeling and surveys to inform data-driven policy decisions and promote sustainability goals.
- **ARTIFICIAL INTELLIGENCE IN URBAN MOBILITY:** Investigating the role of AI in traffic control systems and smart mobility solutions.
- **GREEN ENERGY IN TRANSPORTATION:** Examining the integration of renewable energy and alternative fuels—such as hydrogen—in transportation planning.

EXPERIENCE

2020 – PRESENT

ASSISTANT PROFESSOR, DEPARTMENT OF ENVIRONMENTAL SCIENCES, COLLEGE FOR LIFE SCIENCES, KUWAIT UNIVERSITY

MAY 2011 – MAY 2012

SCIENTIFIC ASSISTANT, DEPARTMENT OF ENVIRONMENTAL TECHNOLOGY MANAGEMENT, COLLEGE FOR LIFE SCIENCES, KUWAIT UNIVERSITY

JAN 2010 – 2012

MEDIA TEAM MANAGER, TAQA (ENERGY GROUP)

The group focuses on renewable energy topics and their application, online platform

JAN 2011 – MAY 2011

TRAINING COORDINATOR, ENVIRONMENTAL AND WATER RESOURCES INSTITUTE.
SALMYIA, KUWAIT

SEP 2009 – DEC 2009

INTERNSHIP, KUWAIT OIL COMPANY, HSE DEPARTMENT. AL-AHMADI, KUWAIT

EDUCATION

FEB 2020

**PH.D. IN INTERDISCIPLINARY GRADUATE STUDIES/ ENVIRONMENTAL
PLANNING**, THE UNIVERSITY OF BRITISH COLUMBIA, CANADA

Thesis title: Sustainable community planning: The business case to address declining
transport-related Quality of Life (QoL) in the Kuwait urban area

JUNE 2015

M. SC. IN ENVIRONMENTAL SCIENCE, THE UNIVERSITY OF BRITISH COLUMBIA,
CANADA

Thesis title: Assessing Public Transportation as a Potential Solution to the Transportation
Challenges in the State of Kuwait

JAN 2010

B. SC. IN ENVIRONMENTAL TECHNOLOGY MANAGEMENT, KUWAIT UNIVERSITY,
KUWAIT

PROFESSIONAL DEVELOPMENT

MAY 2025

SUSTAINABLE CITIES: DATA-DRIVEN POLICY & RESEARCH WORKSHOP, LONDON
SCHOOL OF ECONOMICS, MIDDLE EAST CENTER, KUWAIT

SEP 2024

CERTIFIED ADJUDICATOR, KUWAIT NATIONAL DEBATE TEAM, KUWAIT

AUG 2024

CERTIFIED TRAINER, LONDON TRAINING & COACHING, KUWAIT

APR 2024

CERTIFIED ADJUDICATOR, QATAR DEBATE, KUWAIT

MAY 2022

CERTIFIED PERMACULTURE DESIGNER, THATI ORGANIZATION, KUWAIT

Thesis title: The Rehabilitation of Rural Area to Ensure Self-sufficiency and Sustainability of the Local Community and its Resources.

SEP 2019

FOUNDATIONS OF PROJECT MANAGEMENT I COURSE, MITACS INC., CANADA

HONORS AND AWARDS

- University Graduate Fellowship Award, University of British Columbia, 2019.
- University Graduate Fellowship Award, University of British Columbia, 2016.
- Graduate Entrance Scholarship Award (distinguished application), University of British Columbia, 2012.
- Kuwait University Scholarship for Master and Ph.D., 2011.
- Kuwait University Internal Scholarship for Master, 2011.
- Dean's List of Academic Distinction (2008, 2009, and 2010), Kuwait University.

MEMBERSHIP

2023 – PRESENT

KUWAIT HYDROPONIC SOCIETY, TRAINING AND ACTIVITIES COMMITTEE

2017 – 2018

CITE-OKANAGAN EXECUTIVE, STUDENTS' REPRESENTATIVE

2017 – 2018

MEMBER IN LARGE AT THE AREMA UBCO CHAPTER CLUB, CANADA

2017 – 2018

MEMBER IN LARGE AND MEDIA DIRECTOR AT THE CITE UBCO CLUB, CANADA

PEER-REVIEWED JOURNAL PAPERS

- Jamal, E., Scott, D., Idris, A. & Lovegrove, G. (2019). Investigating factors affecting the mode choices of commuters in Kuwait City & surrounding urban areas: Strategies for a higher quality and more sustainable public transport system. *Urban Development Issues*. vol. 63, pp. 65–76.

PEER-REVIEWED CONFERENCE PRESENTATIONS AND PROCEEDINGS

- Jamal, E., Scott, D., Idris, A. O., and Lovegrove, G. "Investigating Social, Cultural and Demographic Factors of Commuters' Mode Choices in Kuwait City and Surrounding Urban Areas: Towards Developing a More Sustainable Transportation System." Paper accepted for presentation and conference proceedings at the *97th Transportation Research Board (TRB) Annual Meeting*, Washington D.C., January 7th - 11th, 2018.
- Jamal, E., and Lovegrove, G. (2017). "The economic case for metro passenger rail in Kuwait". *CSCE Conference Proceedings*, Vancouver, BC, Canada, 2017.

CONFERENCE PRESENTATIONS

- Jamal, E., and Lovegrove, G. (2019). "Investigating Social, Cultural and Demographic Factors of Commuters' Mode Choices in Kuwait City and Surrounding Urban Areas". Presented at the CSCE Conference, Laval (Greater Montreal), Canada, 2019.
- Jamal, E., Scott, D., Idris, A. O., and Lovegrove, G. "Investigating Social, Cultural and Demographic Factors of Commuters' Mode Choices in Kuwait City and Surrounding Urban Areas: Towards Developing a More Sustainable Transportation System." Presented at the *97th Transportation Research Board (TRB) Annual Meeting*, Washington D.C., January 7th - 11th, 2018.
- Jamal, E., and Lovegrove, G. (2017). "The economic case for metro passenger rail in Kuwait". Presented at the CSCE Conference, Vancouver, BC, Canada, 2017

INVITED TALKS / GUEST LECTURES

- Jamal, E. "Energy flow in the forest system; Trees". Guest Lecture, Permaculture Design Course, THATI Organization, Kuwait, 2023.
- Jamal, E. "Developing business case for sustainable transport systems". School of Engineering, The University of British Columbia, Kelowna BC, Canada, November 2020.
- Jamal, E. "Incorporating the social and environmental factors in planning our cities." School of Engineering, The University of British Columbia, Kelowna, BC Canada, February 2nd, 2018.
- Session chair "Sustainable Transportation", at the 6th International Conference on Engineering Mechanics and Materials, CSCE 2017, Vancouver, Canada. June 2nd, 2017.

CONSULTATIONS / TRAINING

- Workshop: "Sustainable Development Goals: Kuwait Vision" workshop for attendees from the Public Authority for Industry, 2024.
- Workshop: "Sustainable Development Goals: Kuwait Vision" workshop for attendees from the Ministry of Electricity, Water and Renewable Energy, 2023
- Consultant: Kuwait's Mosques graywater reuse project, 2023.

- Series of Workshops: Modern Agricultural Technology workshop for Middle school students from the Ministry of Education in collaboration with the Kuwait Hydroponic Society, 2022.
- Series of Workshops: Modern Agricultural Technology workshop for the Ministry of Education's science teachers in collaboration with the Kuwait Hydroponic Society, 2022.
- Consultant: Rehabilitation of the Kuwait Fire Department camping site, 2022.

REVIEWER FOR THE FOLLOWING JOURNALS/ CONFERENCES

- TRB 2019, 2024
- Regional Science 2018
- CITE 2016

COLLEGE/ TEACHING DUTIES AND ACCOMPLISHMENTS

- Teaching a variety of courses at three different levels: department, college, and university
- Teaching a variety of courses at different academic levels from 100 to 500
- Developing new courses and teaching them on different levels: department, college, and university
- Teaching high density classes
- Using active teaching techniques
- Average evaluation results by students during all teaching years is 94%
- Preparing, coordinating, and supervising many university events: lectures, workshops, and exhibitions
- General Coordinator for the 39th Annual International Conference "Climate Change and the Environmental Implications and Confrontation", November 2022.
- Teaching voluntary courses when needed by the department and the college
- A member of several graduate students' committees
- Initiating and supervising a student debating club "CLS Debating Club" for the first time in Kuwait University 2023-present
- Supervising the department's students club "O² Club" from 2022-2024

COLLEGE/ADMINISTRATIVE DUTIES AND CONTRIBUTIONS

- Assessing in preparing and reviewing key memos and official correspondence to support departmental decision-making and university coordination related to curriculum development, renaming the department, jobs opportunities for alumni, and preparing justification case for new academic program approval.
- Career Opportunities and Labor Market Needs Committee 2024-2025
- Students Affair Committee 2024-2025
- Scientific Committee 2024-2025
- Annual Report Committee 2022, 2023

- Activities and Events Committee 2021-2024
- Labs Committee 2022-2024
- Schedule Committee 2021, 2022, 2024
- Appointing Committee 2021- 2022
- Library Committee 2021-2022

SOCIAL SERVICES

- Several environmental awareness interviews on the media and the social media
- Several agriculture, gardening, native plants, and recycling workshops.
- Participated in preparation, training, and judging the competition of the International Movement for Leisure Activities in Science and Technology of Asia organization (MILSET) titled “Modern Agricultural Technology” for Kuwait’s middle school students, 2023.
- Participated in preparation, training, and judging the competition of the Kuwait Foundation for the Advancement of Sciences (KFAS) titled “Sustainability and the Environment” for Kuwait’s high school students, 2021 and 2022.
- Planning and designing residential neighborhood park project: Al-Funitias 2022
- Planning and redesigning residential area project (walkways, parks, greening, and public space): Al-Funitais 2021
- Refugees’ translation services and events’ organizer, BC, Canada 2016-2018
- Arabic classes for children, BC, Canada, 2015-2017