BDULLAH I. ALIBRAHIM. Ph.D.

Assistant Professor, Industrial & Management Systems Engineering, Kuwait University

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EDUCATION

Ph.D University of Southern California, Los Angeles, CA, USA	2013 - 2017
$Industrial \ {\it \& Systems Engineering - Health Systems Engineering Lab}$	
M.S University of Southern California, Los Angeles, CA, USA	2014 - 2015
Operations Research Engineering	
M.S University of Wisconsin, Madison, WI, USA	2010 - 2011
$Industrial \ {\it \& Systems Engineering}$	

Industrial & Systems Engineering

EXPERIENCE

Kuwait University 2017 - Present Kuwait

Assistant Professor, Industrial & Management Systems Engineering, College of Engineering and Petroleum

2023 - Present Harvard University

Research Fellow, Middle East Initiative, Kennedy School of Government Cambridge, MA, USA

London School of Economics and Political Science

B.S. - University of Wisconsin, Madison, WI, USA

Research Fellow, Middle East Centre London, UK

Dasman Diabetes Institute 2021 - Present

Research Fellow, Geo-Health Lab Kuwait

2021 - Present Porter Express Logistics Company Member, Board of Directors Kuwait

Abyat Megastore 2021 - 2022

Consultant, Strategic Operations Department Kuwait

Ministry of Health 2021 - 2022

Consultant, The Office of the Undersecretary of Planning Kuwait

EXPERTISE & PROJECTS

Health Financing and Policy Studies

Fellow, Middle East Initiative, Kennedy School of Government, Harvard University

2023- Present

2007 - 2010

2019

- Launched and leading a 2-year research project on comparative health financing in the GCC countries
- Organizing roundtables for stakeholders from the GCC health system and producing 2 publications
- The objectives of the project are to gain transferrable policy lessons and chart contrasting health reform trajectories

Fellow, London School of Economics & Political Science and the Dasman Diabetes Institute 2019 - Present

- Leading studies on the economic burden of diabetes in Kuwait cutting across multiple levels of the healthcare system
- Published 5 papers on quantifying and mitigating the burden of diabetes and non-communicable diseases (NCD) leveraging advanced data analytics approaches
- Studies have influenced strategic objectives at the Ministry of Health and have been used to evaluate and motivate self-management education for patients with NCDs at primary care centers

Consultant, Ministry of Health, Kuwait

2019 - 2020

• Influenced strategic planning initiatives relating to healthcare reimbursement reforms (DRG-based schemes) with the ministry's undersecretary

Computational Modeling for Healthcare Policy

Ph.D. Researcher, Department of Industrial & Systems Engineering, University of Southern California 2013 - 2017

- Authored 3 papers that explored the dynamics of healthcare competition in the context of collaborative reimbursement models
- Findings inform the design of accountable care organizations and offer a fresh perspective on healthcare markets through a complex adaptive systems lens

- Managed the agent-based modeling program, led 3 transformative papers (under review), and contributed to 5 notable conference presentations
- Our work sheds new light on the efficiency of financial incentives for healthcare providers, offers innovative methodologies for understanding policy impacts, and paves the way for enhanced evaluation of complex interventions in health systems

Data Analytics and Operations Improvement

Assistant Professor, Industrial & Management Systems Engineering, Kuwait University

2017 - Present

- Developed and taught new computational simulation courses at the undergraduate and graduate levels
- Taught Data Analytics (undergraduate and graduate), Decision Science, Engineering Economics, Quality in Healthcare, and Engineering Capstone Courses. Received an average student feedback rating of 95%
- Thesis supervisor for two master's students in the Industrial & Management Systems Engineering Department

Consultant, Crown Family School of Social Work, Policy, and Practice, University of Chicago

2021 - Present

- Managed and developed the program's geographically enabled analytics program and published 3 papers and 4 conference presentations
- Our collective insights spotlight disparities in opioid treatment accessibility and underscore the urgency for equitable healthcare solutions in substance use disorder treatment

Principal Investigator, Team-Based Cancer Care in Kuwait Research Grant, Kuwait University

2022 - Presen

- Spearheaded the conceptualization, development, and successful acquisition of funding for a research initiative aimed at harnessing analytics to galvanize team-based cancer care in Kuwait
- Leveraged advanced data mining techniques to map and analyze pathways of cancer patients within the treatment system
- Findings are being refined and distilled into two high-impact publications and form the foundation for a series of workshops designed to drive care standardization and elevate experiences in the realm of cancer care

Consultant, Abyat Furniture Megastore

2021 - 2022

Developed two business analytics solutions to inform new-item initial order quantity and warehouse efficiency

PUBLICATIONS

Select Peer-Reviewed Journal Publications

- Abdulsalam, Y., **Alibrahim, A.**, & Alhuwail, D. "A Supply Management Perspective on Diabetes Pharmaceutical Costs." Health Science Reports 2022 (link)
- Alibrahim, A. Al-Ajeel, A., "Noncommunicable Diseases and Hospital Utilization in Kuwait: A Generalizable Approach Using the World Health Survey." Medical Principles and Practice (link)
- Alibrahim, A., Marsh, J., Amaro, H., Kong, K., Khachikian, T., Guerrero, E., "Disparities in Expected Driving Time to Opioid Treatment and Treatment Completion: Findings from an Exploratory Study." BMC Health Services Research 2022 (link)
- Alibrahim, A., Abdulsalam, Y., Al Mutawa, S., Behbehani, H., Al Jenaei, S., & Alhuwail, D. "Towards Value-Based Healthcare Establishing Baseline Pharmacy Care Costs for Diabetes Management." The International Journal of Health Planning and Management 2021 (link)
- Alibrahim, A., Al Ramadan, D., Johny, S., Alhashemi, M., Alduwaisan, H., Al-Hilal, M. "The Effect of Structured Diabetes Self-Management Education on Type 2 Diabetes Patients Attending a Primary Health Center in Kuwait." Diabetes Research and Clinical Practice 2020 (link)
- Guerrero, E. G., **Alibrahim, A.**, Howard, D. L., Wu, S., & D'Aunno, T. "Stability in a Large Drug Treatment System: Examining the Role of Program Size and Performance on Service Discontinuation." International Journal of Drug Policy 2020 (link)
- Alibrahim, A. & Wu, S. "Modeling Competition in Healthcare Markets as a Complex Adaptive System: An Agent-based Framework." Health Systems 2020 (link)
- Alibrahim, A., & Wu, S. "An Agent-based Simulation Model of Patient Choice of Health Care Providers in Accountable Care Organizations." Health Care Management Science 2018 (link)

GRANTS

Kuwait Foundation for the Advancement of Science CN2053MM01, Principal Investigator, Team-Based Cancer Care in Kuwait – Assessing the Cancer Care Continuum

National Institutes of Health Grant R01 DA038608, Consultant, Disparities in Substance Use Disorder Treatment Programs

UK Medical Research Council Grant MR/R013454/1, Consultant, COSMIC: Using Computer Modeling to Optimise the Design of Health System Programmes