

RUAAL JUBOORI

Assistant Professor of Public Health and Data Analytics Statistician
School of Applied Sciences
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EDUCATION

Saint Louis University/ School of Medicine, Saint Louis, MO

Doctor of Philosophy (Ph.D.), Health Outcomes Research May 2018 – May 2022

- 3.97 GPA
- Passed the oral defense with distinction
- **Certificate in University Teaching Skills**, May 2022
Saint Louis University Paul C. Reinert, S.J. Center for Transformative Teaching and Learning, Saint Louis, MO

Research: “Examining the Role of Innovative Prototypes for COVID-19 Severe Health Risk Index and Mortality”

Wright State University/Boonshoft School of Medicine. Dayton OH

Master of Public Health (M.P.H.), Health Education & Health Promotion Aug. 2016 – May 2018

- Fulbright Scholar. 4.0 GPA
- Certification in Epidemiology & Certification in Global Health

Thesis: “Conduct Disorder in Times of Crisis in the Eastern Mediterranean Region”

Iraqi Board for Medical Specializations. Iraq

Fellowship in Community Medicine (FIBMS/CM) Oct. 2010 – Oct. 2014

- Ranked first in class of 8 physicians
- Dissertation: Quality of Care and Clients’ Satisfaction Regarding Reproductive Health Services in the Primary Health Care Centers in Baghdad.

College of Medicine/Baghdad University. Iraq

Bachelor of Medicine and Surgery (MBChB) Oct. 2000 – Oct. 2006

- British system equivalent to US M.D.

SKILLS

- **Research:** Big Data Analysis, Literature Reviews, Data Collection, Visualization, Presentation, and Management. Planning, Monitoring, and Evaluation of Health Care Programs. Survey Sampling, Design and Development. Manuscript Writing and Grant Writing. Survival Data Analysis, Multi-Level and Longitudinal Data Analysis. Spatial Analysis and Story Maps Building (Building interactive maps). Health Resources Management and Planning. Health Advocacy and Promotion. Organizing and Leading Focus group sessions.
- **Computer/Software:** R (including Geospatial analysis), SPSS, SAS, ArcGIS, GeoDa, ArcGIS Story map, Qualtrics, Outlook, Tableau, REDCap, EndNote, Rayyan, and Microsoft Office.

- **Teaching:** Curriculum and Content Development, Teaching and Learning Styles, Developing Online and Hybrid Courses, Teaching graduate and undergraduate courses, Blackboard and Canvas.

RESEARCH EXPERIENCE

Research Responsibilities within Department of Health and Clinical Outcomes Research and Saint Louis University

- Developing and publishing manuscripts related to own and collaborative research work using big data analysis, literature reviews, survival data analysis, spatial analysis
- Data analysis using different computer/software: R (Including Geospatial Analysis), SPSS, SAS, ArcGIS, GeoDa, ArcGIS Story Map, Qualtrics, Outlook
- Collaborating with SLU faculty members on research projects, and survey design and analysis. data collection, visualization, presentation, and management
- Evaluating Health Care programs and developing and revising Key performance indicators (KPIs).
- Data visualization using posters, PowerPoint presentations and story maps building
- **Winner of SLU 2021 Geospatial Innovation Challenge:** Developing Innovative Prototype for Mapping COVID-19 Hot Spots Using Rural-Urban Continuum Codes to Improve Health Outcomes. This is the link to our [story map](#). This is the [presentation link](#)
- Geo-Resolution 2021 Poster Session: The Double Vulnerability of COVID-19: Mapping New Prototypes. This is the link to the [story map](#)
- Innovative data visualization using ArcGIS story maps including:
 - Using Novel Typology to Analyze the Geographical Distribution of Cancer Burden in Missouri. This is the link to the [story map](#)
 - Heart Disease and Associated Risk Factors Utilizing Geospatial Analysis Innovative Prototypes. This is the link to the [story map](#)
 - The Geographical Clustering of Crime and Mental Health Indicators Utilizing Novel Prototypes. This is the link to the [story map](#)
- Developed new research ideas and studies on health outcomes and health behavior
- Reviewer in many journals and scientific conferences
- NIH R21 grant (#000169): grant administrative role. Within this role responsibilities were: Reviewed and interpreted scientific literature, Led, implemented, and managed recruitment of study participants at both local and national level. Managed quality assurance reports. Managed research protocols such as IRB paperwork, letter of support, incentives for study projects. Assisted on grant proposals, manuscripts, and reports

TEACHING EXPERIENCE

Assistant Professor, The university of Mississippi, School of Applied Sciences August 2022 to present

- PH610: Biostatistics for public health practice, Fall 2022 (Online asynchronous)
- PH610: Biostatistics for public health practice, Fall 2022 (In person)

Adjunct faculty, Saint louis University, College of Public Health and Social Justice St. Louis, MO. August 2019 to present

- PUBH 4100- Biological basis of Public Health. Fall 2020
- BST 3100- Applied Biostatistics I. Spring 2021

- BUPH 2100-Introduction to Global Health. Fall 2021 and Spring 2022

Adjunct faculty, Saint Louis University, School of Medicine. Department of Health and Clinical Outcomes Research (formerly known as Saint Louis University Center for Health Outcomes Research-SLUCOR), Saint Louis, MO, May 2020-Present

- HSR 5100- Research Methods in Health and Medicine Summer 2021 and Summer 2022

Teaching Assistant and Course Builder, Saint Louis University-College for Public Health and Social Justice, Saint Louis, MO, 2018-2020

- PUBH 2100: Introduction to Global Health, Spring 2019
- PUBH 2100: Introduction to Global Health, Spring Fall 2019
- PUBH 2100: Introduction to Global Health, Spring 2020
- BST 3100: Applied Biostatistics I. Fall 2020

Teaching Assistant and Course Builder, Department of Health and Clinical Outcomes Research (formerly known as Saint Louis University Center for Health Outcomes Research-SLUCOR), Saint Louis, MO

- HSR 5100: Research Methods in Health and Medicine. Summer 2020
- ORES 5010: Introduction to Biostatistics for Health Outcomes. Summer 2020
- Assisted and provided support to faculty members with Blackboard course development such as syllabus development, assignments, lectures, and additional classroom activities as identified by the faculty member
- Guest lectured for instructors when needed
- Assisted with course design and layout to ensure that students can navigate through Blackboard course pages smoothly
- Monitored course preparation and development to ensure that required materials were available and accessible to students in a timely manner
- Assisted with the preparation and editing of examinations; proctoring examinations; and evaluating test results
- Graded papers and ensured that grades are updated on Blackboard; maintained confidentiality of students' grades and performance
- Provided office hours and worked with students individually and in small groups

WORK EXPERIENCE

Data analytics biostatistician at the Institute of Child Nutrition (INC). August 2022 to present

Graduate Research Assistant, Doctoral Program, Saint Louis University, School of Medicine. Department of Health and Clinical Outcomes Research and College for Public Health and Social Justice, Saint Louis, MO, 2018-present

- Conceptualized, designed, and conducted quantitative, qualitative, and mixed methods research studies and analysis
- Developed survey instrumentation for quality measurement of numerous local and national-scale public health projects
- Reviewed and interpreted scientific literature

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- Led, implemented, and managed recruitment of study participants at both local and national level
- Managed research protocols such as IRB paperwork, letter of support, incentives for study projects
- Assisted on grant proposals, manuscripts, and reports
- Presented and guest lectured research findings to faculty, students, and general public
- Synthesized scientific findings for academic and non-academic audiences through guest presentations and lectures
- Mentored graduate and undergraduate, students on research

Intern, SSM Health, Department of Clinical Analytics, System Data Analytics St. Louis, MO, 2019-present

- Assisted in conducting literature reviews to help developing evidence-based Key Performance Indicators (KPI) for the health care system
- Assisted in development and evaluation of health outcomes prediction models
- Developed and presented research work conducted for the department

Graduate Research Assistant, Wright State University/Boonshoft School of Medicine. Dayton OH 2016-2018

- Student team member in “Refugee Centered Medical Home: Refugees as our Patient Leaders” as part of Patient Centered Outcomes Research Interest (PCORI) grant. Under the supervision of Dr, Kate Conway. M.D, MPH
- Analyzing data using SPSS, R, SAS
- Conceptualized, designed, and conducted quantitative, qualitative, and mixed methods research studies and analysis
- Reviewed and interpreted scientific literature
- Led, implemented, and managed recruitment of study participants
- Assisted on grant proposals, manuscripts, and reports
- Presented and guest lectured research findings to faculty, students, and general public

Specialist Physician in Community Medicine. Iraqi Ministry of Health. Baghdad, Iraq

Director of the Planning Directorate/Health and Vital Statistical Department, 2015-2016

- Collected, audited, analyzed national health and vital statistical data
- Extracted national health indicators from national surveillance databases
- Revised and wrote Iraq’s Ministry of Health 2015 Annual Statistical Report and Statistical Compass. This national report included data from all Iraqi Health institutes (hospitals, specialized centers, primary health care centers, health districts)
- Revised and wrote Iraq’s Ministry of Health (2010-2015) Trend Analysis of Annual Statistical Data
- Monitored and evaluated national health plans and programs
- Conducted national health surveys for international health agencies including the World Health Organization and the World Bank
- Mentored Fellowship students in Community Medicine programs for the Iraqi Board for Medical Specializations and the Arabic Board for Medical Specializations
- Designed and delivered technical on-site training for ICD-10 medical coding to physicians and statisticians throughout Iraq

Medical Specialty Training: Fellowship in Community Medicine, Iraq, 2010-2014

Program included one year of classroom setting followed by three years of clinical practice in the capital city of Baghdad including: health planning and manpower, maternity and child health, communicable diseases control, occupational health and safety, community nutrition, non-communicable diseases, and school health.

Practicum: Periodic frontline community medicine, continuing services for war-displaced families. Families were fleeing ISIS militants.

Clinical Medicine Experience: Resident Physician in Rural Medicine, Iraq, 2009-2010

Worked in Emergency Department for small rural hospital south and between Al Falluja and Abu Gharib. Volunteered with Ministry of Health and international relief agencies to serve war-displaced families on the frontlines.

Resident "Periodic" Physician, Iraq, 2007-2009

This residency included rotations in three large hospitals in Baghdad. Clinically trained in the following branches:

- Surgical department and emergency room of surgery
- Medical department and emergency room of medicine
 - Received memo of gratitude and appreciation from the director of the Hospital for efforts in treating the wounded after terrorist attack in Albayaa area of Baghdad.
 - Received memo of gratitude and appreciation from the Executive Administration of the Health Directorate for efforts in treating the wounded after terrorist attack on the Ministry of Foreign Affairs and the Ministry of Finance.
- Obstetrics and Gynecology
- Pediatrics
 - Received memo of gratitude and appreciation from the director of the hospital for patient service.

PUBLICATIONS

Al-Nuaimi, M.A., Hamad, R.A., & Lafta, R.K. (2015). Effects of witnessing or exposure to community violence on mental health of Iraqi men. Qatar Medical Journal, 2015(1), 10. doi: 10.5339/qmj.2015.10

Al Juboori, R. A., Redko, C., Khalil, N. (2018). Conduct Disorder in Times of Crisis in the Eastern Mediterranean Region. Core Scholar. Master's Culminating Experience. <https://corescholar.libraries.wright.edu/mph/217/>

Al Juboori, R. A., Davy, O., Uzoaru, F., Shato, T., Fu, J. (2021). Does the Change in Smoking and Marijuana Use Policies Influence Adolescents' Risky Sexual Behaviors and Other Associated Factors? DOI: 10.31235/osf.io/z7tdm

Abdulfatah H., Al Juboori, R. A., Hamad R., Taqi M., Mahaan J., Talib M. (2021) Seroprevalence of Hepatitis B & C Virus and Associated Risk Factors in Hemodialysis Units in Al-Anbar Province. Journal of Global Scientific Research (ISSN: 2523-9376) 6 (1) 2021/ 1051-1068.

Al Juboori, R. A., Subramaniam, D.S. & Hinyard, L. Understanding the Role of Adult Mental Health and Substance Abuse in Perpetrating Violent Acts: In the Presence of Unmet Needs for Mental Health Services. *Int J Ment Health Addiction* (2022). <https://doi.org/10.1007/s11469-022-00778-1>

Al Juboori R.A., Subramaniam D. (2021). Does Exposure to School Violence Predispose Adolescents to Engage in Sex While Under the Influence of Alcohol/Drugs? Accepted.

WORK IN PROGRESS

Subramaniam, D.S., Elliott, M.B., Al Juboori R.A., Zink, T. Behavioral beliefs related to anthrax vaccine and anthrax vaccine knowledge among emergency personnel. In press

Subramaniam, D.S., Elliott, M.B., Al Juboori R.A., Zink, T. Emergency personnel anthrax knowledge and ability and willingness to respond during anthrax outbreak.

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. Using Novel Typology to Analyze the Geographical Distribution of Cancer Burden in Missouri.

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. Heart Disease and Associated Risk Factors Utilizing Geospatial Analysis Innovative Prototypes.

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. The Geographical Clustering of Crime and Mental Health Indicators Utilizing Novel Prototypes.

Wallace C, Wladkowski, S.,Wingo A, Al Juboori R.A. (2022). The Burden of Live Discharge from Hospice for Patients & Caregivers: A Systematic Review.

CONFERENCE PRESENTATIONS

Al Juboori, R. A., Redko, C., Khalil, N. (2018). Conduct disorder in times of crisis in the Eastern Mediterranean Region. Accepted for poster presentation at the 2018 Center for University Global Health (CUGH) national conference, New York, USA. March 2018.

Adib, K., Brown, J., Joseph, C., Malki, W. Al Juboori, R.A., Conway, k. (2018). Bridging the Gap: A qualitative study analyzing inadequate communication in regard to refugee healthcare. 2017. Accepted for poster presentation at the 2018 Center for University Global Health (CUGH) national conference, New York, USA. March 2018.

Al Juboori, R.A., Redko, C., Khalil, N. (2018). Conduct disorder in times of crisis in the Eastern Mediterranean Region. Accepted for poster presentation at the 2018 Fulbright Global Health Seminar. Georgia State University, Atlanta USA, March 2018.

Adib, K., Al Juboori, R.A., Brown, J., Goswami, R., Joseph, C, Walid Malki, W., Conway, K. (2018). Bridging the Gap: Developing Patient Centered Medical School Refugee Healthcare Curriculum.

Tenth Annual Medical Student Research Symposium. Wright State University. Boonshoft School of Medicine. OH.USA, 2018.

Al Juboori R.A., Shacham E., Nelson E., Arnold L., Garba A., Schootman M. (2019). The Role of Violent Crimes, Neighborhood and Individual Characteristics in Mental Health. Accepted for poster presentation at the American Public Health Association. Philadelphia, PA. USA. 2019.

Adib, K, Al Juboori, R.A., Brown, J., Goswami, R., Joseph, C., Malki, W., Conway, k. (2019). Building Bridges: Improvement of Refugee Health Care Through Community Voices. Accepted for poster presentation at the 2019 North American Refugee Health Conference, Toronto, Canada. June 2019

Al Juboori R.A., Subramaniam D, Hinyard L (2021). Understanding the role of mental health in perpetrating violent acts: depression, substance use, and unmet need for mental health services. Journal of Patient-Centered Research and Reviews. Abstracts from the 2021 Health Care Systems Research Network Annual Conference. USA. May 2021

Al Juboori R.A., Subramaniam D (2021). Does Exposure to School Violence Predispose Adolescents to Engage in Risky Sex? Abstracts from the 2021 Health Care Systems Research Network Annual Conference. USA. May 2021.

Al Juboori R.A., Davy, O., Uzoaru, F., Shato, T.,Fu, J.(2021). Does the Change in Smoking and Marijuana Use Policies Influence Adolescents' Risky Sexual Behaviors and Other Associated Factors? Abstracts from the 2021 Health Care Systems Research Network Annual Conference. USA. May 2021.

Sandoval N, Al Juboori R.A (2021) A Spatial Analysis of Mental Health Disorder and Crime Rates in Saint Louis, Missouri. Abstracts from the 2021 Health Care Systems Research Network Annual Conference. USA. May 2021.

Wladkowski, S, Coccia, K, Wingo, A, Al Juboori, R.A., Cara Wallace, C. What Happens When the Patient Doesn't Die? Understanding Live Discharge from Hospice Care. Innovation in Aging, Volume 5, Issue Supplement_1, 2021, Pages 996-997, <https://doi.org/10.1093/geroni/igab046.3545>

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. Using Novel Typology to Analyze the Geographical Distribution of Cancer Burden in Missouri. Health Care Systems Research Network Annual Conference. USA. April 2022.

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. Heart Disease and Associated Risk Factors Utilizing Geospatial Analysis Innovative Prototypes. Health Care Systems Research Network Annual Conference. USA. April 2022.

Al Juboori R.A., Subramaniam D, Prener C., Sandoval N. The Geographical Clustering of Crime and Mental Health Indicators Utilizing Novel Prototypes. Health Care Systems Research Network Annual Conference. USA. April 2022.

Wallace C, Al Juboori R.A., Leslie Hinyard L, Wladkowski. Recruitment Of Patients and Caregivers After Live Discharge from Hospice: Challenges and Lessons Learned. Health Care Systems Research Network Annual Conference. USA. April 2022.

HONORS AND AWARDS

- 2021: Winner of SLU 2021 Geospatial Innovation Challenge: Developing Innovative Prototype for Mapping COVID-19 Hot Spots Using Rural-Urban Continuum Codes to Improve Health Outcomes
- 2019: Awarded Saint Louis University Graduate Teaching Assistantship
- 2018: Awarded Saint Louis University Graduate Teaching Assistantship
- 2018: Awarded the student membership of the Delta Omega Honorary Society in Public Health Gamma Alpha Chapter.
- 2016: Awarded Fulbright Scholarship to attend Wright State University (Dayton, Ohio) for Master of Public Health degree.
- 2014: Honored by the Iraqi Minister of Higher Education and Scientific Research for Excellence in Community Medicine.
- 2014: Honored by the Acting President of the Iraqi Board for Medical Specializations for Excellence in Community Medicine.

PROFESSIONAL AFFILIATIONS

- Delta Omega Honor Society
- American Public Health Association (APHA): “Abstract reviewer”
- Health Care Systems Research Network (HCSRN): “Abstracts reviewer”
- HELIYON: “Manuscript’s reviewer”
- Movement for Global Mental Health
- Fulbright Alumni
- Iraqi Medical Association
- International Iraqi Medical Association
- Iraqi Board for Medical Specializations

PROFESSIONAL/COMMUNITY SERVICE

Public Health Doctoral Student Association, 2018-2020

- Participated in monthly meetings, social and service event planning meetings
- Organized monthly Journal Club for student body
- Provided updates from Graduate Student Association
- Mentored incoming doctoral students with required coursework and projects
- Attended and participated in various training workshops provided
- Assisted with program development for fellow doctoral students

Graduate Student Association, 2018-2020

- Attended monthly meetings as representative for School of Public Health Doctoral Student Association
- Updated PhD student organization weekly and/or monthly with events, requirements, and responsibilities of Graduate Student Organization
- Participated in the annual Graduate Research Symposium and the Awards Committee

Professional Development

- 2012: BOA –IRAQ (Iraq Society of Clinical Oncology) Baghdad. Iraq
- 2014: The Ninth Scientific Conference held at Al-Mustansriyah College of Medicine Baghdad. Iraq
- 2016: Building field surveys skills held by Arab Planning Institute in AL Kuwait
- 2017: Fulbright Global Health Innovation Seminar in Georgia State University, Atlanta, Georgia, USA.
- 2018: Fulbright Global Health Innovation Seminar in Georgia State University, Atlanta, Georgia, USA.
- 2020. Reviewer of abstracts submitted for the APHA's 2020 annual meeting and expo, specifically for the Mental Health program.

Community and Volunteer Work

- Medical Interpreter with Language Access Multicultural People (LAMP) Saint Louis MO. 2018 to present.
 - Helped in bridging the language barrier to access health care and improve the health care experience and outcomes for refugee communities resettling in Saint Louis metropolitan region.
- Volunteer at a Refugee Resettlement Agency (Catholic Social Services). 2017 Dayton, OH.
 - Worked directly with refugee populations, to develop the best evidence-based practices to treat this vulnerable population.
 - Organized and led cultural orientation sessions for the newly arrived refugees. It's incredibly rewarding to help these families begin to feel like they are truly welcome here in their new home
- Volunteer Resident Physician. 2007 Iraq
 - Volunteered at a teaching Hospital while awaiting official assignment for residency: the domestic fight for Iraqi rule delayed this process.
 - Received a memo of gratitude and appreciation from the director of the Hospital. This volunteer experience was conducted during a sectarian conflict between rival Iraqi forces trying to gain rule over the country.

LANGUAGES

English, Arabic (Native)