

Academic Curriculum vitae

Badera Mohammad Al Mohammad
Department of Allied Medical Sciences
Faculty of Applied Medical Sciences
Jordan University of Science and Technology

Contact Information

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Personal information

Nationality: Jordanian

Status: Married

Place of Birth: North Macedonia

Languages

Arabic: Native language

Macedonian: Native language, excellent reading, writing and speaking

English: Excellent reading, writing and speaking

Academic Qualifications

Jul 2015- March 2019	Doctor of Philosophy	University of Sydney, NSW, Australia
Sep 2010 -Jan 2012	Master's degree in Bioimaging	Boston University, MA, USA
Sep 2002 – June 2006	Bachelor's degree in Radiologic Technology	Jordan University of Science and Technology, Jordan

Reserch Interests

My intersts are in early cancer detection, specifically lung cancer considering it's prevalence in the world and it's high mortality rate. Furthermore, my other research interests involve radiation protection for patients and medical personnel, improving patient care in radiology and assessing the perceptions on AI integration in the radiology department.

Employment Record

Sep 2019- current	Assistant Professor Department of Allied Medical Sciences, Faculty of Applied Medical Sciences, Jordan University of Science and Technology
Sep 2011- Jun 2015	Lecturer and Clinical Supervisor Department of Allied Medical Sciences, Faculty of Applied Medical Sciences, Jordan University of Science and Technology
Oct 2006 – Aug 2010	Teaching Assistant Participating in theoretical teaching, clinical training, and supervising students in the following courses: radiographic

positioning, MRI ,CT , Angiography, Ultrasound,
Mammography, Nuclear Medicine.
Radiology Laboratory Supervisor
Department of Allied Medical Sciences,
Faculty of Applied Medical Sciences,
Jordan University of Science and Technology

Oct 2006 – Aug 2010 Radiation Safety Officer

Managing the radiation protection program at Jordan
University of Science and Technology, identifying any
possible problems and recommending corrective actions,
follow up and renewal of radiation personnel safety
certificates

Department of Allied Medical Sciences,
Faculty of Applied Medical Sciences,
Jordan University of Science and Technology

June 2006 - Oct 2006 Radiologic Technologist on the following modalities:

general radiography, CT, MRI, and ultrasound.

Arab Medical Center, Khalil Mizel St, Amman, Jordan

Teaching and Clinical Supervision

Teaching a number of bachelor's and master's degree courses in the field of medical imaging such as: peripheral and central osseous systems radiography, radiographic cross sectional anatomy, surface anatomy, diagnostic imaging, patient care in the radiology department, fluoroscopic imaging, mammography, ultrasonography, radiologic pathology, angiography, computed tomography, advanced principles and clinical applications in computed tomography.

Clinical and practical supervision of bachelor's and master's students in hospital settings of a variety of medical imaging practical courses such as: general radiography practice, advanced radiography practice, and practical training in clinical radiologic technology,

Supervising students in a wide range of medical imaging labs including: peripheral osseous system radiography lab, central osseous system radiography lab, radiographic cross sectional anatomy lab, surface anatomy lab, patient care in radiology lab, fluoroscopic imaging lab, angiography lab, and computed tomography lab.

Thesis Supervision

- Assessment of willingness of radiologists and radiographers to accept the integration of artificial intelligence into radiology practice
- Assessing the radiation protection awareness and practice amongst neurosurgeons

Academic and Administrative Duties and Committees

- Member of the committee for the development of the admission exams in the master's program in radiologic technology
- Member of Scientific Research Committee, Allied Medical Sciences Department
- Member of Community Service Committee, Allied Medical Sciences Department
- Member of the Academic Program's Curriculum Committee, Allied Medical Sciences Department
- Member of the Scientific Committee, Allied Medical Sciences Department
- Member of Library Committee, Allied Medical Sciences Department
- Member of the Graduate Studies Committee, Allied Medical Sciences Department
- Member of Excellence Committee, Allied Medical Sciences Department
- Member of Library Committee, Faculty of Applied Medical Sciences

- Member of the Community Service Committee, Faculty of Applied Medical Sciences
- Member of the Scientific Committee, Conferences, and Scientific Days Committee, Faculty of Applied Medical Sciences
- Member of the Committee for Evaluating Practical and Clinical Courses and Laboratories, Faculty of Applied Medical Sciences
- Reviewer for medical imaging related journals such as Clinical Radiology
- Member of the Jordanian Society of Radiographers

Workshops, courses and conferences

- CPR\BLS Course at King Abdullah University Hospital, Jordan
- Technical and Clinical Information Course on CT scanner, King Abdullah University Hospital, Jordan
- 3rd Arab Radiology Conference, Dead Sea, Jordan
- NIH (National Institute of Health) Certificate for Protecting Human Subject Research Participants, University of Sydney, Australia
- The Brain and Mind Centre General Induction Course, University of Sydney, Australia
- Faculty of Health Sciences Induction Hazardous Manual Tasks, University of Sydney, Australia
- Data and Statistical Analysis course, University of Sydney, Australia
- Participating in Open Days and Research Presentations, University of Sydney, Australia
- Presenting a paper in the Annual Postgraduate and ESR Cancer Research Symposium, Sydney, Australia
- Poster Presentation in SPIE Medical Imaging, San Diego, USA
- Attending “Applying Quality Matters Rubric” Workshop, Jordan University of Science and Technology, Jordan
- Attending “E-learning Media/Website Creating and Hosting on JUST Server” Workshop, Jordan University of Science and Technology, Jordan
- Attending “Research Integrity” Workshop, Jordan University of Science and Technology, Jordan

- Attending “Statistical Data Analysis SPSS” Workshop at Jordan University of Science and Technology, Jordan
- Development of the Radiologic Technology Curriculum and Study Plans at Jordan University of Science and Technology, Jordan
- Attending the “Basics of Clinical Sonography Hands-on Workshop”, Prince Hamza Hospital /SAMS, Amman, Jordan

Awards

Fully funded Master’s Program Scholarship, Jordan University of Science and Technology, Jordan

Fully funded Ph.D. Program Scholarship, Jordan University of Science and Technology, Jordan

International Postgraduate Research Scholarship IPRS, University of Sydney, Australia

Australian Postgraduate Award, University of Sydney, Australia

Postgraduate Research Support Scheme, University of Sydney, Australia

Grants

2021	Orthopedic surgeons’ radiation protection knowledge and practices in the operating theater Jordan University of Science and Technology 2350 JOD
2023	Assessment of knowledge among CT technologists, regarding CT parameters, patient dose and image quality Jordan University of Science and Technology 1680 JOD
2023	Assessing radiologists’ and radiographers’ perceptions on AI integration: opportunities and challenges Jordan University of Science and Technology

400 JOD
2023 Radiation protection awareness and practice among
neurosurgeons
Jordan University of Science and Technology
400 JOD

Publications

1. **Al Mohammad Badera**, Maram M. Alakhras, and Warren Reed.
"Assessing the knowledge of CT radiographers regarding how CT parameters affect patient dose and image quality." *European Journal of Radiology* 166 (2023): 111023.
2. **Al Mohammad Badera**, Monther Gharaibeh, and Maram Al Alakhras.
"Knowledge and practice of radiation protection in the operating theater among orthopedic surgeons." *Journal of Medical Imaging* 9.6 (2022): 066002-066002.
3. **Al Mohammad Badera**, Afnan Aldaradkeh, Monther Gharaibeh, Warren Reed. "Assessing radiologists' and radiographers' perceptions on AI integration: opportunities and challenges." *British Journal of Radiology* (Accepted for publication January 2024)
4. Gharaibeh, Monther A., **Badera Al Mohammad**, Beshar Gharaibeh, Laith Khasawneh, and Saeed Al-Naser. "Guidelines for the orthopedic surgeon in the era of COVID-19." *Orthopedic Reviews* 12, no. 4 (2020).
5. Alakhras, M., D. S. Al-Mousa, **Badera Al Mohammad**, and K. M. Spuur.
"Knowledge, attitude, understanding and implementation of evidence-based

practice among Jordanian radiographers." *Radiography* 29, no. 4 (2023): 760-766.

6. **Al Mohammad Badera**, et al. "Comparing senior residents' performance to radiologists in lung cancer detection." *Medical Imaging 2019: Image Perception, Observer Performance, and Technology Assessment*. Vol. 10952. SPIE, 2019.
7. Hillis, Stephen L., **Badera Al Mohammad**, and Patrick C. Brennan. "Estimating latent reader-performance variability using the Obuchowski-Rockette method." *Medical Imaging 2019: Image Perception, Observer Performance, and Technology Assessment*. Vol. 10952. SPIE, 2019.
8. **Al Mohammad Badera**. *Lung Cancer Detection on Chest Computed Tomography Scan: Observer Performance and the Effect of Cancer Nodules' Characteristics*. Diss. 2018.
9. **Al Mohammad Badera**, Patrick C. Brennan, and Claudia Mello-Thoms. "A review of lung cancer screening and the role of computer-aided detection." *Clinical radiology* 72.6 (2017): 433-442.
10. **Al Mohammad Badera**. *Quantitative MRI quality control using the ACR phantom*. Diss. Boston University, 2012.