

Associate Professor Zainab Mohammad Alqudah, PhD

Paramedic Educator & Researcher

Current Status	Assistant Professor Paramedics Program, Department of Allied Medical Sciences Jordan University of Science and Technology
	Assistant Dean Academic Development & Quality Assurance Jordan University of Science and Technology
	Adjunct Lecturer Department of Paramedicine Monash University, Victoria, Australia
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About Me

A highly motivated, qualified, professional educator and researcher passionate about helping people and making a difference in their lives. My objectives are to obtain a position in a professional office environment where my skills are valued and can benefit the organisation and to achieve the highest level of success for both the company and my development.

Qualification

Postgraduate 2018 – 2022	Doctor of Philosophy Paramedicine Monash University, Australia
2013 – 2015	Master's Degree and Paramedic Training Emergency Health Services The University of Maryland, Baltimore County (UMBC), USA
Undergraduate 2007 – 2011	Bachelor of Science (Paramedicine) Jordan University of Science and Technology Irbid, Jordan

Experience

Oct 2024 – Current	Assistant Dean Academic Development & Quality Assurance Jordan University of Science and Technology
Oct 2022 – Current	Assistant Professor Faculty of Applied Medical Sciences Jordan University of Science & Technology
Oct 2022 – Current	Adjunct Lecturer Department of Paramedicine Monash University, Victoria, Australia
Nov 2021 – May 2022	Research Assistant Research and Evaluation Center, Ambulance Victoria Melbourne, Australia
Feb 2016 – Jan 2018	Full-time Lecturer Faculty of Applied Medical Sciences Jordan University of Science & Technology
Dec 2012 – Dec 2013	Teaching Assistant Faculty of Applied Medical Sciences Jordan University of Science & Technology
Feb 2012 – Nov 2012	Paramedic Health Center Jordan University of Science & Technology

Training and Community Involvement

- Coordinate “Restart a Heart Day“ event at Jordan University of Science and Technology Oct 2024.
- Basic Life Support Instructor Jun 2024.
- Heartsaver: First Aid CPR AED May 2024.
- Basic Life Support (BLS) May 2024.
- Coordinate “Restart a Heart Day“ event at Jordan University of Science and Technology Oct 2023.
- Program Coordination and Administration Training (PCAT) Jun 2023.
- Advance Cardiac Life Support (ACLS) Nov 2022.
- Pediatric Advance Life Support (PALS) Nov 2022.
- Prehospital Trauma Life Support (PHTLS) Nov 2022.
- Program Coordinator and Administrative training, American Heart Association (PCAT-AHA) Jun 2023.
- Managing Land Search and Rescue Operator Apr 2015.
- Critical Care Emergency Medical Transport-Paramedic (CCEMTP) Feb 2016.
- Trained in King Abdullah University Hospital for two months from Dec 2011 – Feb 2012.
- Have a specialist paramedic certificate from the Jordan Ministry of Health and responded to more than 100 emergency calls.
- One year of Emergency clinical training at the Jordanian Civil Defense during my bachelor’s study.
- Participated in two free medical days in Al-Ramtha city that organized by JUST.
- Participated in two hours “drill” to teach the community of JUST about the new academic program of Paramedics and what paramedics Do.
- Finished the EMT course at UMBC and passed the US EMT National Registry exam in 2015.
- Assisted the Local Organizing Committee of the FIFA U17 Women’s World-Cup Jordan 2016 as paramedic supervisor from Sep 21st, 2017 – Oct 21st, 2016.
- Successfully completed a three-day “Teaching Methods and learning styles” training course in 2017.

Research Interest, Skills and Activities

Research Interest

- Cardiopulmonary resuscitation
- Pediatrics, Neonate and obstetric prehospital management
- Prehospital management of trauma
- Health and well-being of paramedics and other healthcare providers
- Prehospital Education

Ongoing Research Projects/Submitted Manuscript

- Paramedic Virtual lab infrastructure at JUST,2023 (\$66,000) (CO-PI-unfunded by JUST; ongoing).
- Evaluation of Arab community members and health care professionals' knowledge and attitudes toward cardiopulmonary resuscitation for women, 2023 (approved for \$7,400; PI funded by JUST; ongoing)
- Development of the Arabic Auditory-Verbal Therapy Application as Part of the Hear Jordan 2 Project, 2023 ((approved for \$77,450; CO-PI funded by Hear the World Foundation; ongoing)

Teaching and Research Awards

- JUST postgraduate scholarship (2018-2022)
- Australian and New Zealand College of Paramedicine Research Symposium best novice research presentation award (5-6 November 2019).
- Department of Paramedicine scholarship to attend Paramedic Australasia International Conference, 28-30 Nov 2019, Hobart, Tasmania, Australia
- Department of Paramedicine scholarship to attend Australian and New Zealand College of Paramedicine Research Symposium 2018 conference, 4-5 Jul 2018, Victoria, Australia
- American Heart Association scholarship to attend the Scientific Session 2021, 13-15 November 2021, Boston, US.
- Best oral presentation finalist - Australian College of Paramedicine, 2020, Melbourne, Australia.
- Best oral presentation finalist - Australian Resuscitation Outcomes Consortium (Aus-ROC) Resuscitation 2020 New Investigator Seminar, 2020, Melbourne, Australia.
- Best oral presentation finalist - Australian College of Paramedicine, 2021, Melbourne, Australia.
- American Heart Association scholarship to attend the Scientific Session 2022, November 2022, Chicago, US.
- Postgraduate Publication Award, October 2021, Monash University, Victoria, Australia.
- Research Publication Award, April 2022, Department of Paramedicine, Monash University.
- JUST Master's degree Scholarship, UMBC, USA (2014 – 2015).
- Scholarship included full tuition fees for BSc degrees for academic excellence and achievement (2007 – 2011).
- Ranked first among Paramedic students with a GPA of 88.7%.
- Honoured in eight semesters for academic excellence during BSc Degree.

Invited, Keynote and/or Attended Conference Presentations

- **Alqudah, Z.**, Nehme, Z., Alrawashdeh, A., Williams, B., Oteir, A., Smith, K. Systematic review and meta-analysis of the outcomes, incidence, and predictors of survival of paediatric traumatic out-of-hospital cardiac arrest. Paper presented at

Paramedics Australasia International Conference; 2019, Wrest Point, Hobart, Tasmania, oral presentation.

- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Incidence, outcomes and pre-management of paediatric traumatic out-of-hospital cardiac arrest: An 18-year retrospective study. Paper presented at Paramedics Australasia International Conference; 2019, Wrest Point, Hobart, Tasmania, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Incidence, outcomes and pre-management of paediatric traumatic out-of-hospital cardiac arrest. Paper presented at Paramedicine Research Symposium; 2019, Monash University, Melbourne, Australia, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Alrawashdeh, A., Williams, B., Oteir, A., Smith, K. Survival outcomes and incidence of paediatric traumatic out-of-hospital cardiac arrest: a systematic review and meta-analysis. Paper presented at Paramedicine Research Symposium; 2019, Monash University, Melbourne, Australia, oral presentation.
- **Alqudah, Z.** The emergency medical services system in Jordan. Presented at the Paramedicine Around the World; 2019, Monash University, Melbourne, Australia, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Survival in traumatic OHCA after the introduction of a trauma-focused resuscitation protocol. Paper presented at the Resuscitation 2020 New Investigator Seminar; 2020, Melbourne, Australia, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Temporal trends in traumatic out-of-hospital cardiac arrest outcomes between 2001 and 2018 in Victoria, Australia. Paper presented at the Australian College of Paramedicine; 2020, Melbourne, Australia, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Paediatric traumatic out-of-hospital cardiac arrest in Victoria, Australia. Paper presented at the School of Primary and Allied Health Care Research Festival; 2019, Monash University, Melbourne, Australia, poster presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Temporal changes in the epidemiology and management of traumatic out-of-hospital cardiac arrest and their impact on survival outcomes. Paper presented at the American Heart Association Scientific Session; 2020, United States, poster presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Traumatic out-of-hospital cardiac arrest outcomes before and after the introduction of a trauma-based resuscitation protocol: is there evidence of improvement? Paper presented at the Australasian Trauma Conference; 2021, Queensland, Australia, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Smith, K. Impact of Changes in Clinical Practice Guidelines on Survival Outcomes After Traumatic Out-of-Hospital Cardiac Arrest. Paper presented at the American Heart Association Scientific Session; 2021, Boston, United States, poster presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Bernard, S., Smith, K. Survival outcomes in traumatic out-of-hospital cardiac arrest after the introduction of a trauma-

focused resuscitation protocol. Paper presented at the Australian College of Paramedicine; 2021, Canberra, Australia, oral presentation.

- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Smith, K. Effect of A Trauma-Based Resuscitation Protocol On Outcomes From Traumatic Out-Of-Hospital Cardiac Arrest. Paper presented at the Emirates Society of Emergency Medicine Conference (ESEM22); 2022, Abu Dhabi, UAE, oral presentation.
- **Alqudah, Z.**, Nehme, Z., Williams, B., Oteir, A., Smith, K. The impact of a trauma-based resuscitation protocol on survival from traumatic out-of-hospital cardiac arrests witnessed by paramedics. Paper presented at the New Zealand Resuscitation (NZ-RESUS); 2022, Wellington, New Zealand, oral presentation.
- Coordinate the 5th Jordan University of Science and Technology Paramedic International Conference (JUST-PIC), 2023, Irbid, Jordan.
- **Alqudah, Z.**, Resuscitation in Special and Difficult Scenarios. Workshop coordinated and presented at the 1st Arab Resuscitation Council Conference; 2023, Dubai, UAE. Workshop.
- **Alqudah, Z.**, AlHilali, Z. Is CPR for Women Considered a Challenge in Arab Countries. Paper presented at the 1st Arab Resuscitation Council Conference; 2023, Dubai, UAE. Oral Presentation.
- Invited Member of a Scientific Committee at the 1st Arab Resuscitation Council Conference, 2023, Dubai, UAE.
- **Alqudah, Z.**, Smith, K., Stephenson, M., Walker, T., Stub, D., Nehme, Z. Effect of a high-performance cardiopulmonary resuscitation protocol on survival from OHCA's witnessed by paramedics. Paper presented at the Emirates Society of Emergency Medicine Conference (ESEM23); 2023, Abu Dhabi, UAE, oral presentation.
- **Alqudah, Z.**, Resuscitation in Special Population (Obstetrics, Neonate and Paediatrics). Workshop coordinated and presented at the 2nd Arab Resuscitation Council Conference; 2024, Dubai, UAE. Workshop.
- Invited Member of a Scientific Committee at the 2nd Arab Resuscitation Council Conference, 2024, Dubai, UAE.
- **Alqudah, Z.**, AlHilali, Z. Evaluation of Arab community members and healthcare professionals' knowledge and attitudes toward cardiopulmonary resuscitation for women. Paper presented at the European Resuscitation Council Congress (Resuscitation 2024); 2024, Athens, Greece, Poster presentation.
- Invited Member of a Scientific Committee at the 3rd Arab Resuscitation Council Conference, 2025, Dubai, UAE.

Peer-Reviewed Publications

- **Alqudah Z.**, Nehme Z, Williams B, Oteir A, Bernard S, Smith K. A descriptive analysis of the epidemiology and management of paediatric traumatic out-of-hospital cardiac arrest. Resuscitation. 2019 Jul 1;140:127-34.
- **Alqudah Z.**, Nehme Z, Alrawashdeh A, Williams B, Oteir A, Smith K. Paediatric traumatic out-of-hospital cardiac arrest: A systematic review and meta-analysis. Resuscitation. 2020 Apr 1;149:65-73.

- **Alqudah Z**, Nehme Z, Williams B, Oteir A, Bernard S, Smith K. Impact of temporal changes in the epidemiology and management of traumatic out-of-hospital cardiac arrest on survival outcomes. *Resuscitation*. 2021 Jan 1;158:79-87.
- **Alqudah Z**, Nehme Z, Williams B, Oteir A, Bernard S, Smith K. Impact of a trauma-focused resuscitation protocol on survival outcomes after traumatic out-of-hospital cardiac arrest: An interrupted time series analysis. *Resuscitation*. 2021 May 1;162:104-11.
- Safori M, **Alqudah Z**, Williams B. Resilience levels in paramedic students: a cross-sectional study. *International Journal of Emergency Services*. 2021 Sep 10.
- Alqudah S, Zaitoun M, Alqudah O, Alqudah S, **Alqudah Z**. Challenges facing users of hearing aids during the COVID-19 pandemic. *International Journal of Audiology*. 2021 Jan 8:1-7.
- **Alqudah Z**, Nehme Z, Williams B, Oteir A, Smith K. Survival outcomes in emergency medical services witnessed traumatic out-of-hospital cardiac arrest after the introduction of a trauma-based resuscitation protocol. *Resuscitation*. 2021 Sep 20.
- **Alqudah Z**, Nehme Z, Williams B, Oteir A, Smith KL. Impact of Changes in Clinical Practice Guidelines on Survival Outcomes After Traumatic Out-of-Hospital Cardiac Arrest. *Circulation*. 2021 Nov 16;144(Suppl_2):A11112-.
- Kennedy C, **Alqudah Z**, Stub D, Anderson D, Nehme Z. The effect of the COVID-19 pandemic on the incidence and survival outcomes of EMS-witnessed out-of-hospital cardiac arrest. *Resuscitation*. 2023 Jun 1;187:109770.
- Alwidyan MT, Alkhatib ZI, Alrawashdeh A, Oteir AO, Khasawneh EA, **Alqudah Z**, Albataineh SA, Abukheat Y. Knowledge and willingness of schoolteachers in Jordan to perform CPR: a cross-sectional study. *BMJ open*. 2023 Aug 1;13(8):e073080.
- Alhenaki A, **Alqudah Z**, Williams B, Nehme E, Nehme Z. Temporal trends in the incidence and outcomes of shock-refractory ventricular fibrillation out-of-hospital cardiac arrest. *Resuscitation Plus*. 2024 Jun 1;18:100597.
- Alqudah S, Zuriekat M, Hassan S, Mahafdeh H, **Alqudah Z**, Shatarah A, Smadi G. The prevalence and patterns of hearing loss in Jordan: A cross-sectional study. *Plos one*. 2024 Aug 15;19(8):e0304125.
- **Alqudah Z**, Burns B. Traumatic Cardiac Arrest. *Critical Care Paramedicine: A Case-Based Approach*. 2024 Nov 18.

Supervision of Graduate Students

- Charlotte Kennedy: The effect of the COVID-19 pandemic on the incidence and survival outcomes of EMS-witnessed out-of-hospital cardiac arrest. (Honours student).
- Abdulrahman Alhenaki: Refractory Out-of-hospital Cardiac Arrest in Victoria: Epidemiology, Predictors and Outcomes. (PhD student).
- Nora Abu-Obeid: The impact of public access defibrillation in paediatric out-of-hospital cardiac arrest outcomes (Master student).
- Ahmed Alshedidi: The impact of dispatcher-assisted cardiopulmonary resuscitation on bystander response and survival outcomes following out-of-hospital cardiac arrest in Saudi Arabia Asir region.

Selected Peer reviewing in the following journals

- Resuscitation Journal
- Resuscitation Plus
- BMJ Open Journal
- PLOS Plus Journal
- Journal of Pediatric Intensive Care
- International Journal of Emergency Services

Statistical Analysis Technical Skills

- SPSS software: descriptive analysis, General Linear Model, regression analysis, Multivariate analysis, factor analysis, and nonparametric analysis.
- STATA software: descriptive analysis, regression analyses, factor analysis, nonparametric analysis, time-series analysis, and multiple imputations.

Courses Taught at The Universities

- Basic Management of Medical Emergencies
- Basic Management of Medical Emergencies Lab
- Clinical Training (1)
- Clinical Training (2)
- Computer Applications in Paramedics
- Computer Applications in Paramedics (Lab)
- Emergency Management of Special and Critical Cases Introduction to Civil Defence
- Paramedic Communication Skills
- Paramedic Management of Cardiopulmonary Emergencies (1)
- Paramedic Management of Cardiopulmonary Emergencies (1) Lab
- Paramedic Management of Cardiopulmonary Emergencies (2)
- Paramedic Management of Cardiopulmonary Emergencies (2) Lab
- Paramedic Management of Cardiovascular Emergencies
- Paramedic Management of Cardiovascular Emergencies (Lab)
- Paramedic Management of Infectious Toxicological and Environmental Emergencies
- Paramedic Management of Medical Emergencies
- Paramedic Management of Paediatric and Maternity Emergencies
- Paramedic Management of Paediatric and Maternity Emergencies Lab
- Pharmacology
- Pharmacology For Paramedic Students
- Pharmacology For Paramedic Students Lab
- Psychology And Sociology for Paramedic Students

References

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