

## CURRICULUM VITAE

**Name:** Salah Al-Zaiti, PhD, RN, CRNP, ANP-BC, FAHA  
**Current Title:** Professor & Endowed Chair  
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### EDUCATION

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
The Hashemite University, Jordan	BSN	05/2006	Nursing Science
SUNY, University at Buffalo, Buffalo, NY	MSN	05/2010	Adult Health Nursing
SUNY, University at Buffalo, Buffalo, NY	Ph.D.	05/2013	Cardiovascular Nursing
MIT, Cambridge, MA	Certificate	11/2019	Machine Learning
Columbia University, New York, NY	Certificate	05/2021	Applied Machine Learning

### APPOINTMENTS AND POSITIONS

#### Academic & Administrative Appointments

- 2013–2024** **Assistant, Associate, and Full Professor**, Departments of Acute & Tertiary Care Nursing, Emergency Medicine, Cardiology, and Electrical & Computer Engineering, University of Pittsburgh, Pittsburgh, PA, USA
- 2021–2024** **Vice Dean of Research**, Department of Acute & Tertiary Care (ATC), and Department of Nurse Anesthesia, University of Pittsburgh, Pittsburgh, PA, USA
- 2024–** **Professor & Endowed Chair**, Departments of Nursing, Emergency Medicine, Cardiology, and Electrical & Computer Engineering, University of Rochester Medical Center (URMC), Rochester, NY, USA

#### Other Leadership Appointments

- 2018–2020** **Director** — Interprofessional Education
- 2019–2021** **Director** — Nursing Honors Program
- 2020–2024** **Co-Director** — Data Science Core, eHealth HUB
- 2020–2024** **Co-Director** — T32 Technology in Acute & Chronic Illness
- 2024–** **Director** — Digital Health HUB (HEART)

#### Clinical Experience

- 2006–2008** **Registered Nurse, Bone Marrow Transplantation**  
King Hussein Cancer Center, Amman, Jordan
- 2010–2011** **Nurse Practitioner**, Diabetes and Endocrinology Center of WNY,  
Kaleida Health, Buffalo, NY
- 2018–2019** **Nurse Practitioner (per diem)**  
Braddock Health Clinic, Swissvale, PA

## Adjunct & Professional Positions

- 2020–**        **Affiliated Translational Researcher**  
Center for Bio-signal Research, UCSF, San Francisco, CA, USA
- 2023–2024**   **Fulbright US Scholar**  
US Department of State – US Embassy Jordan
- 2024–**        **Honorary Professor**  
School of Nursing, University of Jordan, Amman, Jordan
- 2024–**        **Consultant**  
Heart Beam Inc., Santa Clara, CA, USA
- 2025–**        **Editor-in-Chief**  
*Heart & Lung: The Journal of Cardiopulmonary & Acute Care* (IF = 2.4)
- 2025–**        **Founder & CEO**  
Intelli Cardio Inc., Pittsburgh, PA, USA
- 2025–**        **Vice President**  
International Society of Computerized ECG (ISCE), East Windsor, NJ, USA

## LICENSURE & BOARD CERTIFICATIONS

- 2009–        Registered Nurse (New York)
- 2010–        Nurse Practitioner (New York)
- 2010–        Board Certified Adult Nurse Practitioner, American Nurses Credential Center (ANCC)
- 2013–        Registered Nurse (Pennsylvania)
- 2013–        Nurse Practitioner (Pennsylvania)

## HONORS & AWARDS

### University Awards

#### *Student Awards (State University of New York, Buffalo NY, USA)*

- 2006        **Chancellor’s Award for Student Excellence** (highest GPA, class of 2006)
- 2009        **Woodburn Presidential Fellowship**
- 2009        **Sigma Theta Tau**, Gamma Kappa Chapter, The Honors Society of Nursing
- 2010        **Anne Sengbusch Award for Excellence in Leadership**
- 2012        **Graduate Student Excellence in Teaching Award**
- 2013        **Ruth G. Elder Award for Excellence in Research** (Graduate Category)

#### *Faculty Awards (University of Pittsburgh, Pittsburgh, PA, USA)*

- 2019        **Dean’s Distinguished Teaching Award**
- 2020        **Chancellor’s Distinguished Teaching Award** [\[link\]](#)
- 2021        **Senior Vice Chancellor Research Seminar Series** [\[link\]](#)
- 2023        **Chancellor’s Distinguished Research Award** [\[link\]](#)

### Regional Awards

- 2020        **Nurse Researcher of the Year**, Pittsburgh Magazine [\[link\]](#)
- 2020        **Excellence in Nursing Research**, Nightingale Awards of Pennsylvania [\[link\]](#)

## National & International Awards

- 2011 **Jos Willems Young Investigator Finalist**, ISCE, San Jose, CA
- 2012 **Best Poster Award**, ISCE, Birmingham, AL
- 2013 **Jos Willems Young Investigator Finalist**, ISCE, San Jose, CA
- 2014 **Martha N. Hill New Investigator Award**, CVSN Council, AHA [\[link\]](#)
- 2015 **Marie Cowan Promising Young Investigator Award**, CVSN Council, AHA [\[link\]](#)
- 2017 **Fellow of the American Heart Association (FAHA)**, American Heart Association (AHA)
- 2021 **Research Article of the Year Award**, AHA, (Published in *Nature Communications* [\[link\]](#))
- 2023 **Research in Nursing & Health Best Paper**, [\[link\]](#) to Article]
- 2023 **Fulbright U.S. Scholar**, international fellowship awarded for the project “AI-Enabled ECG Screening of Subclinical Coronary Artery Disease Among Refugees in Jordan”
- 2024 **Research Article of the Year Award**, AHA, (Published in *Nature Medicine* [\[link\]](#))

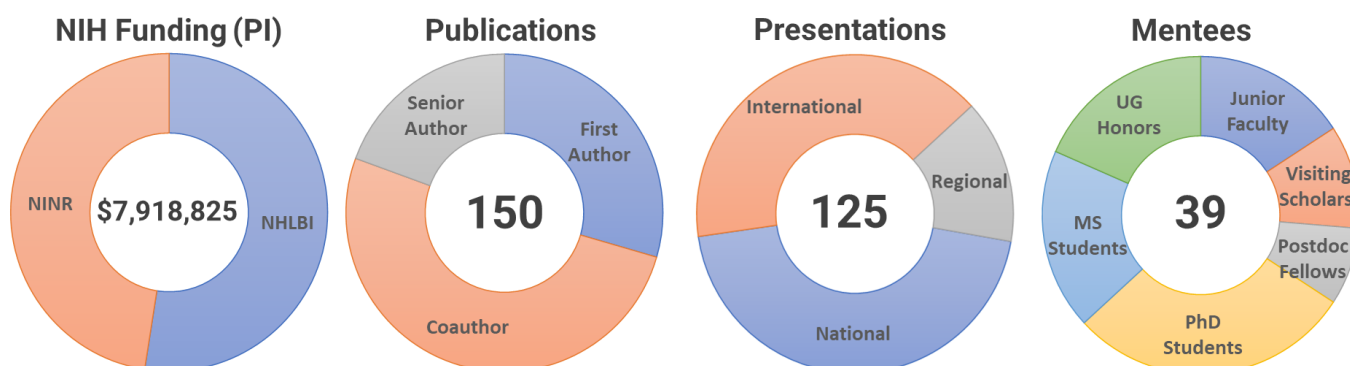
## News, Highlights, Editorials, & Expert Opinion

- 2015 **Editorial Spotlight:** featured in an editorial written by Dr. Robert Lux, PhD “NSTEMI: A Novel and Robust Approach for Early Detection of Patients at Risk”, [\[Link\]](#)
- 2020 **Pittwire (University of Pittsburgh News Outlet):** “New AI Research Looks to Better Diagnose Heart Attacks Before Hospital Arrival” [\[link\]](#)
- 2021 **tctMD Press:** invited to give expert opinion on “AI-Enhanced ECG Shows Potential for COVID-19 Screening” [\[Link\]](#)
- 2022 **Mayo Clinic Podcast “ECG: Making Waves”:** “ECG methods for ischemia detection: Recommendations & Future Opportunities” [\[link\]](#)
- 2023 **Nature Research Briefing:** invited to give expert opinion on “Improving the diagnosis of myocardial infarction with machine learning” [\[link\]](#)
- 2023 **UPMC Press Release:** “New AI Tool Beats Standard Approaches for Detecting Heart Attacks” [\[link\]](#)
- 2023 **WTAE Pittsburgh Channel 4 News:** “University of Pittsburgh researchers and UPMC are studying AI to detect heart attacks faster” [\[link\]](#)

## Patents

- 2020 **U.S. Patent # 10,820,822** (New, issued): “ECG identification of NST-EACS” [\[link\]](#)
- 2023 **US Patent # 11,883,180** (Continuation, issued) [\[link\]](#)
- 2025 **US Patent # 12,458,270** (Continuation, issued) [\[link\]](#)
- 2025 **US Patent #00,000,000** (New, submitted): “AI-ECG for Acute Pulmonary Embolism”

## RESEARCH



Ongoing Research Projects

NIH/NHLBI **Al-Zaiti (PI)** 7/1/22–6/30/27  
 2R01HL137761-5 *Impact score = 18 (1<sup>st</sup> percentile)* \$2,676,069

***ECG Detection of Non-ST Elevation Myocardial Events – Two (ECG-SMART-2)***

This is a multi-site clinical trial between UPITT and UNC-Chapel Hill to design and deploy a machine-learning-based graphical user interface for real-time identification of coronary events.

NIH/NINR **Al-Zaiti (PI) & Clermont (Co-PI)** 2/23/22–11/30/26  
 2R01NR013912-8 *Impact score = 24 (7<sup>th</sup> percentile)* \$3,105,315

***Predicting Patients Instability Noninvasively for Nursing Care –Three (PPINNC-3)***

This is a multi-site clinical trial to design and pilot test an intelligent alerting system at stepdown and telemetry units. Collaboration sites are Carnegie Mellon University (CMU), UCSF, and UCLA.

NIH/NHLBI **Pelter (PI)** 12/1/23–11/30/27  
 1R01HL167975 **Al-Zaiti (Co-I)** \$3,216,140

***Evaluation of a novel ECG algorithm to identify and predict VT and in-hospital cardiac arrest***

This study aims to create the largest, multi-expert, ground-truth labeled repository of ventricular tachycardia (VT) alarms in ICU patients (n = 25,298) for FDA use prior to 510(k) clearances.

Pending

NIH/NHLBI **Al-Zaiti (contact PI)** 12/1/26–11/30/31  
 R01HL000000 \$6,518,293

***HEARTBEAT: Integrating ECG-FM with KG Reasoning for Trustworthy CV Inference***

This is a multi-institutional AI-ECG framework using 15 million ECG records across the University of Rochester, University of Pittsburgh, and UCSF that integrates foundation models, multimodal knowledge graphs (KG/GNN), and LLM-based reasoning to deliver scalable, physiologically grounded, and clinically interpretable cardiovascular decision support.

NIH/NLM **Zegre-Hemsey & Al-Zaiti (Co-PI)** 12/1/26–11/30/30  
 R01LM015523 \$1,560,133

***RED-ACS: Remote Early Detection of ACS Using AI and Wearables at Point-of-Care***

This study will examine electrical and biological markers related to early disease detection and leverage existing mobile monitoring technologies for remote detection at home.

NIH/NHLBI **Suba (PI)** 12/1/26–11/30/30  
 R01HL0000000 **Al-Zaiti (Co-I)** \$2,250,610

***Forecasting Risk for In-hospital Cardiac Arrest using Survival Trajectories (FORECAST-IHCA)***

This study will develop and externally validate survival deep learning AI models to forecast evolving risk of in-hospital cardiac arrest across two medical centers in the US.

Completed Projects

ZOLL Foundation **Karina Kraevsky-Phillips (PI)** 7/1/23–6/30/25  
 F31 NR018589 **Al-Zaiti (Sponsor, Co-PI)** \$49,470

***Data-driven Modeling of Pathological Mechanisms of Dyspnea in Heart Failure***

This mentored research project aims to develop a data-driven triage tool that can aid in risk stratifying HF patient evaluated for dyspnea at the Emergency Department.

- University of Pittsburgh Elmer, Empey, **Al-Zaiti** & Wang (MPI) 7/1/23–6/30/25  
 CTSI Health Sciences Team Grant \$150,000  
***Pittsburgh Resource for EEG & Data Science to Inform Precision Care & Outcomes (PREDICT)***  
 This team science grant aims to fund six preliminary pilot projects in preparation for a P01 Grants focusing on the use of EEG, ECG, ABP, and Pleth to predict neurologic recovery after cardiac arrest.
- NIH/NINR Dabbs (PI) & **Al-Zaiti** (Co-PI) 7/1/22–6/30/27  
 T32 NR008857 *Impact score = 23* \$1,551,425  
***Technology Research in Chronic and Critical Illness (Years 15-20)***  
 This grant provides rigorous research training and interdisciplinary culturalization to aid nurse scientists in adopting technology to promote health, manage illness, and reduce disability.
- NIH/NHLBI Kahn (PI) 7/1/22–6/30/26  
 T32 NR008857 **Al-Zaiti** (Faculty, Advisory Board) \$1,554,715  
***Multidisciplinary Training in Critical Care Outcomes Research***  
 This training program will provide post-doctoral scholars with state-of-the-art, interdisciplinary training in critical care outcomes research spanning T2, T3, and T4 translation.
- NIH/NHLBI Villanueva FS (PI) 7/1/23–6/30/26  
 T32 HL129964 **Al-Zaiti** (Faculty, Advisory Board) \$2,058,077  
***Training Program in Imaging Sciences in Translational Cardiovascular Research***  
 This Program aims to train post-doctoral fellows to acquire core competency in imaging technologies and to use these tools to pursue hypothesis-driven cardiovascular research.
- NIH/NINR Helman (PI) 7/1/21–12/31/23  
 F31 NR018589 **Al-Zaiti** (Sponsor) \$203,877  
***Use of Predictive Analytics to Quantify Neonatal Hypothermia Burden After Cardiac Surgery***  
 This mentored research project aims to evaluate temporal trends of unintentional hypothermia burden (temperature depth and duration) in neonates after cardiopulmonary bypass surgery.
- NIH/NHLBI **Al-Zaiti** (PI) 4/15/18–6/30/22  
 1R01HL137761-1 *Impact score = 20 (3<sup>rd</sup> percentile)* \$1,479,372  
***ECG Detection of Non-ST Elevation Myocardial Events (ECG-SMART)***  
 This prospective cohort study aims to develop machine-learning-based ECG analysis tools to allow real-time identification of acute coronary syndrome in the prehospital setting.
- NIH/NINR **Al-Zaiti** (PI) & Pinsky (Co-PI) 9/27/16–6/30/22  
 R01 NR 013912-7 \$658,069  
***Predicting Patients Instability Noninvasively for Nursing Care –Two (PPINNC-2)***  
 This prospective cohort study aims to develop an intelligent alerting system based on multi-channel vital signs physiological data to alert nurses to ongoing (and future) hemodynamic instability.
- NIH/NINR Koleck (PI) 6/1/18–5/30/23  
 K99/R00 NR017651 **Al-Zaiti** (Clinical Advisory Panel) \$912,612  
***Advancing Chronic Condition Symptom Cluster Science Through Use of HER and Data Science***  
 This mentored research project aims to develop a data-driven pipeline for the characterization of symptom clusters from EHRs using a cohort of adult patients diagnosed with chronic comorbidities.

- University of Pittsburgh                      **Al-Zaiti** (PI)    9/1/20 – 4/30/22  
 Ruth Perkins Kuehn Award    \$30,000  
***Vessel-Specific ECG Leads (VSEL): A Novel Solution for Myocardial Ischemia Detection***  
 This sub-study aims to evaluate the clinical utility of three novel ECG leads that are optimized for detecting ischemia caused by the occlusion of each of the three main coronary arteries.
- NIH/NINR    Hravnak & Pinsky (Co-PI's)    9/27/16–6/30/22  
 R01 NR 013912    **Al-Zaiti** (Co-I)    \$2,659,686  
***Predicting Patients Instability Noninvasively for Nursing Care –Two (PPINNC-2)***  
 This prospective cohort study aims to develop an intelligent alerting system based on multi-channel vital signs physiological data to alert nurses to ongoing (and future) hemodynamic instability.
- NIH/NINR    Frisch (PI)    7/1/19–12/31/21  
 F31 NR 018589    **Al-Zaiti** (Sponsor)    \$112,831  
***Modernizing Emergency Department Nurse Triage via Big Data Analytics***  
 This retrospective cohort study aimed to develop a machine-learning decision support system to triage patients presenting to the emergency department using data available at initial triage.
- Oracle for Research    **Al-Zaiti** (PI)    9/1/20 – 8/31/22  
 Cloud Credit Award    \$50,000  
***A Deep-Learning Based Clinical Decision Support Tool for Detecting Acute Coronary Lesions***  
 This sub-study aims to develop a deep-learning-based ECG interpretation system that is fully interpretable and can visually display ACS prediction in clinical practice.
- University of Pittsburgh                      **Al-Zaiti** (PI)    7/1/2016–6/30/2019  
 Momentum Fund    \$16,000  
***Non-ST Elevation Myocardial Ischemia: The Role of Cell Survival Genes***  
 This sub-study examined the molecular genetic basis of apoptosis, autophagy, and ischemic preconditioning during the evolution of acute ischemic in STEMI versus NSTEMI patients.
- NIH/NCATS    Reis (PI)    2/1/2017–9/30/2017  
 UL 1TROO1857-01    **Al-Zaiti** (sub-award # 0050952)    \$25,000  
***Modeling Repolarization Lability on ECG Signals to Detect Myocardial Injury in Chest Pain***  
 This pilot study aimed to develop a tool to analyze beat-to-beat repolarization lability from the standard 12-lead ECG and test its clinical value in detecting myocardial ischemia in chest pain.
- University of Pittsburgh                      **Al-Zaiti** (PI)    7/1/2014–6/30/2016  
 Momentum Fund    \$15,000  
***Redefining the Pretest Probability of Ischemia Prior to Nuclear Stress Testing***  
 This study aimed to validate the diagnostic accuracy of spatial ECG metrics and their dynamic changes against SPECT scans as a gold standard of subclinical myocardial ischemia in chest pain.
- UPMC    **Al-Zaiti** (PI)    7/1/2015–12/31/2016  
 Medical Research Fund    \$24,000  
***ECG Methods for Prehospital Detection of NSTEMI: Feasibility Study***  
 This pilot study aimed to establish the feasibility of collecting high-quality, reliable, prehospital 12-lead ECGs from our local UPMC Prehospital Network and Pittsburgh EMS agencies.

Emergency Nurses Foundation     **Al-Zaiti** (PI)     1/1/2015–12/31/2015  
 Technology Research Award     \$6,000

***Redefining ECG Interpretation in Emergency Departments: Novel Methods for ACS Detection***

This pilot study aimed to test the feasibility of performing real-time advanced analyses of 12-lead ECG signals in the field to harvest novel signatures of ischemia that can be used during patient care.

University of Pittsburgh     **Al-Zaiti** (PI)     7/1/2014–12/31/2015  
 Center for Medical Innovation     \$12,000

***Stratifying Prehospital ECGs for Treatment Decisions at Emergency Departments (SPEED)***

This pilot study developed the necessary infrastructure for the acquisition, transmission, and signal processing of prehospital ECG data from Pittsburgh EMS network.

## PUBLICATIONS

ORCID: 0000-0002-6862-0658, citations = 3,214, h-index = 25, i10-index = 50

### Scientific Statements & Guidelines

- 2026     1. Zhong H, **Al-Zaiti SS**, Armoundas A, Bennett D, Do S, Narayan S, et. al. Detecting and Mitigating Bias for Inclusive and Trustworthy Clinical Research: A Scientific Statement from the American Heart Association. *Circulation: Genomics & Precision Medicine*, in press.
- 2024     2. Armoundas A, Narayan S, Lett E, Spector-Bagdady K, Friedman P, Kwitek A, Gollob M, Celi L, Arnett D, Menon B, Bennett D, & **Al-Zaiti SS**. Use of Artificial Intelligence in Improving Outcomes in Heart Disease: A Scientific Statement from the American Heart Association. *Circulation*, doi.org/10.1161/CIR.0000000000001201
- 2022     3. **Al-Zaiti SS**, Alghwiri A, Hu X, Clermont G, Peace A, et al. A Clinician's Guide to Understanding and Critically Appraising Machine Learning Studies: A Checklist for Ruling Out Bias Using Standard Tools in Machine Learning (ROBUST-ML). *European Heart Journal Digital Health*, 2022; Vol 3(2):125-40.
- 2020     4. Franklin BA, Thompson PD, **Al-Zaiti SS**, Albert CM, Hivert M-F, Levine BD, Lobelo F, Madan K, Sharrief AZ, and Eijsvogels TMH. Exercise-related acute cardiovascular events and potential deleterious adaptations following long-term exercise training: placing the risks into perspective—an update: a scientific statement from the American Heart Association. *Circulation*. 2020;141(13): e705–e736.

### Original Research (Data-Based)

- 2026     5. Kraevsky, K., Aqtash, S., Teh, F. C. E., Pinsky, M. R., Clermont, G., Hravnak, M., & **Al-Zaiti SS**. A comprehensive cross-sectional study of bedside monitor alarm characteristics and alarm load across hospital units. *Scientific Reports*.
- 2025     6. Gokhale, T., Bhatt, N.R., Starr, M., Mulukutla, S., Thoma, F., Akcakaya, M., Al-Zaiti, S., Nogueira, R.G. **Al-Zaiti SS**, and Saba, S. Prediction of atrial fibrillation admissions in arrhythmia naïve patients from structured electronic health record data. *BMC Medical Informatics and Decision Making*, 25(1), p.348.

7. Helman, S.M., Riek, N.T., Sereika, S.M., Tafti, A.P., Olsen, R., Gaynor, J.W., Lisanti, A.J. and **Al-Zaiti, S.S.** Exploring Novel Data-Driven Clustering Methods for Uncovering Patterns in Longitudinal Neonatal Postoperative Temperature Measurements. *Mayo Clinic Proceedings: Digital Health*, p.100270.
8. Gokhale, T.A., Riek, N.T., Medoff, B., Ji, R.Q., Rivera-Lebron, B., Sejdic, E., Akcakaya, M., Saba, S.F., **Al-Zaiti, S.** and Toma, C. Artificial intelligence-driven electrocardiogram analysis for risk stratification in pulmonary embolism. *European Heart Journal-Digital Health*, 6(5), pp.989-996.
9. Ji R, Riek N, Bouzid Z, Kravsky-Philips K, Gokhale T, Zegre-Hemsey J, Clermont G, Saba S, Martin-Gill C, Callaway C, Akcakaya M, Sejdic E, & **Al-Zaiti SS.** Adversarial Debiasing for Equitable and Fair Detection of Acute Coronary Syndrome using 12-Lead ECG. *IEEE Transactions on Biomedical Engineering*, Vol. 73(3): 1062-1071.
10. Riek, N. T., Akcakaya, M., Bouzid, Z., Gokhale, T., Helman, S., Kraevsky-Philips, K., ... & **Al-Zaiti, S.** ECG-SMART-NET: A deep learning architecture for precise ECG diagnosis of occlusion myocardial infarction. *IEEE Transactions on Biomedical Engineering*, Vol. 72(12): 3613-3620.
11. Bouzid Z, Sejdic E, Martin-Gill C, Faramand Z, Callaway C, & **Al-Zaiti SS.** Machine Learning with Electrocardiograms to Optimize All-Cause Mortality Risk Stratification in Patients with Suspected Acute Coronary Syndrome. *European Heart Journal*, Vol. 46(10):943-954.
12. Bani Hani D, Alsharaideh J, Saleh A, Alwahadneh A, & **Al-Zaiti SS.** Lymphocyte-Based Inflammatory Biomarkers: Novel Predictors of Significant Coronary Artery Disease. *Heart & Lung*, Vol. 70(2):23-29.
- 2024 13. Helman S, Sereika S, Hravnak M, Henker R, Gaynor W, Herrup E, Olsen R, Kochanek P, Ghassemzadeh R, Baust T, Riek N, Domnina Y, Lisanti A, and **Al-Zaiti SS.** Association Between Persistent Hypothermia After Cardiopulmonary Bypass in Neonates and Odds of Serious Complications. *Critical Care Explorations*, Vol. 6(8), e1137.
14. Riek N, Gokhale T, Martin-Gill C, Kraevsky-Philips K, Zègre-Hemsey J, Saba S, Callaway C, Akcakaya M, and **Al-Zaiti SS.** Clinical Usability of Deep Learning-Based Saliency Maps for Occlusion Myocardial Infarction Identification from the Prehospital 12-Lead Electrocardiogram. *Journal of Electrocardiology*, in press.
- 2023 15. **Al-Zaiti SS,** Martin-Gill C, Zègre-Hemsey J, et al. Machine Learning for ECG Diagnosis and Risk Stratification of Occlusion Myocardial Infarction. *Nature Medicine*, 2023; Vol. 29(7): 1804-1813.
16. Rooney SR., Kaufman R., Murugan R., Kashani KB., Pinsky MR., **Al-Zaiti SS,** Dubrawski A., Clermont G. and Miller JK. Forecasting imminent atrial fibrillation in long-term electrocardiogram recordings. *J of Electrocardiology*, 81, pp.111-116.
17. Prasad PA, Isaksen JL, Abe-Jones Y, Zègre-Hemsey JK, Sommargren CE, **Al-Zaiti SS & Pelter MM.** Ventricular tachycardia and in-hospital mortality in the intensive care unit. *Heart Rhythm O2*, Vol. 4 (11):715-722.

- 2022
18. Helman S, Terry MA, Pellathy T, Hravnak M, George E, **Al-Zaiti SS**, Clermont G. Engaging Multidisciplinary Clinical Users in the Design of an Artificial Intelligence–Powered Graphical User Interface for Intensive Care Unit Instability Decision Support. *Applied Clinical Informatics*. 2023;14(04):789-802.
  19. Kraevsky-Phillips K, Sereika SM, Bouzid Z, Hickey G, Callaway CW, Saba S, Martin-Gill C, & **Al-Zaiti SS**. Unsupervised machine learning identifies symptoms of indigestion as a predictor of acute decompensation and adverse cardiac events in patients with heart failure presenting to the ED. *Heart & Lung*, Vol. 61(5):107-113.
  20. Xiao R, Ding C, Hu X, Clifford G, Wright D, Shah A, **Al-Zaiti SS**, Zegre-Hemsey J. Integrating Multimodal Information in Machine Learning for Classifying Acute Myocardial Infarction. *Physiological Measurement*, 44(4):044002.
  21. Pelter MM, Carey MG, **Al-Zaiti SS**, Zegre-Hemsey J, Sommargren C, Isola L, Mortara D, and Badilini F. An annotated ventricular tachycardia (VT) alarm database: Toward a uniform standard for optimizing automated VT identification in hospitalized patients. *Annals of Noninvasive Electrocardiology*, 00, e13054.
  22. Bouzid Z, Faramand Z, Martin-Gill C, Sereika S, Callaway C, Saba S, Gregg R, Badilini F, Sejdić E, & **Al-Zaiti SS**. Incorporation of Serial 12-Lead ECG with Machine Learning to Augment the Prehospital Diagnosis of Non-ST Elevation Acute Coronary Syndrome. *Annals of Emergency Medicine*, Vol. 81(1):57-69
  23. **Al-Zaiti SS.**, Macleod, M. R., Van Dam, P. M., Smith, S. W., & Birnbaum, Y. Emerging ECG Methods for Acute Coronary Syndrome Detection: Recommendations & Future Opportunities. *J of Electrocardiology*, Vol. 74:65-72.
  24. Peace A, **Al-Zaiti SS**, Dewar F, McGilligan V, Bond R. Exploring decision making ‘noise’ when interpreting the electrocardiogram in the context of cardiac CATH lab activation. *J of Electrocardiology*, Vol. 73:157-161.
  25. Bouzid Z, **Al-Zaiti SS**, Bond R, & Sejdić E. Remote and Wearable ECG Devices with Diagnostic Abilities in Adults: A State-of-the-Science Scoping Review. *Heart Rhythm*, Vol. 19(7):1192-1201.
  26. Faramand Z, Alrawashdeh M., Helman S, Martin-Gill C, Callaway C, & **Al-Zaiti SS**. Your Neighborhood Matters: A Machine-Learning Approach to the Geospatial and Social Determinants of Health in 9-1-1 Activated Chest Pain. *Research in Nursing and Health*, Vol. 45(2):230-239.
  27. Helman, S., Terry, M.A., Pellathy, T., Williams, A., Dubrawski, A., Clermont, G., Pinsky, M.R., **Al-Zaiti, SS.** & Hravnak, M. Engaging Clinicians Early During the Development of a Graphical User Display of An Intelligent Alerting System at the Bedside. *International Journal of Medical Informatics*, Vol. 159:104643.
  28. Schwimer, D., **Al-Zaiti, SS.**, & Beach, M. (2022). Improving Corrected QT Interval Monitoring in Critical Care Units: A Single Center Report. *Critical Care Nurse*, 42(1), 33-43.
  - 2021
  29. Bouzid Z, Faramand Z, Gregg R, Helman S, Martin-Gill C, Saba S, Callaway C, Sejdić E, & **Al-Zaiti SS**. Novel ECG Features and Machine Learning to Optimize Culprit Lesion Detection in Patients with Suspected Acute Coronary Syndrome. *Journal of the Electrocardiology*, Vol. 69:31-37.

30. Helman, S., Herrup, E., Christopher, A., & **Al-Zaiti, SS.** (2021). The role of machine learning applications in diagnosing and assessing critical and non-critical CHD: A scoping review. *Cardiology in the Young*, 31(11), 1770-1780.
31. Faramand Z, Helman S, Ahmad A, Martin-Gill C, Saba S, Callaway C, Gregg R, Wang J, & **Al-Zaiti SS.** Performance and Limitations of Automated ECG Interpretation Statements in Patients with Suspected Acute Coronary Syndrome. *Journal of the Electrocardiology*, Vol. 69:45-50.
32. Finlay D, Bond R, Jennings M, McCausland C, Guldenring D, Kennedy A, Biglarbeigi P, **Al-Zaiti SS**, McLaughlin J. Overview of featurization techniques used in traditional versus emerging deep learning-based algorithms for automated interpretation of the 12-Lead ECG. *Journal of the Electrocardiology*, Vol. 69:7-11.
33. Bond R, Finlay D, **Al-Zaiti SS**, Macfarlane P. Machine learning with ECGs: A call for guidelines and best practices for 'stress testing' algorithms. *Journal of the Electrocardiology*, Vol. 69:1-6.
34. Faramand Z., Martin-Gill C; Callaway CW; & **Al-Zaiti SS.** Modified HEART score to optimize risk stratification in cocaine-associated chest pain. *Am J of Emergency Medicine*, Vol. 47:307-308.
35. Bouzid Z, Faramand Z, Frisch S, Martin-Gill C, Gregg R, Saba S, Callaway C, Sejdić E, & **Al-Zaiti SS.** In Search of Optimal Subset of ECG Features to Augment the Diagnosis of Acute Coronary Syndrome at the Emergency Department. *Journal of the American Heart Association (JAHA)*, Vol. 10(3): e017871.
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## INTERNATIONAL PRESENTATIONS

\*\* indicates podium

### International Society of Computerized ECG (ISCE)

- 2025
1. \*\* **Al-Zaiti SS.** AI-Driven ECG: Navigating the Path to Clinical Adoption in Emergency Care. *Journal of Electrocardiology*, 91: 153980.
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14. Gregg R, An J, Babaeizadeh S, Faramand Z, Bouzid Z, **Al-Zaiti SS**. ECG Detection of ACS by Convolutional Neural Network utilizing Transfer Learning. *Journal of the Electrocardiology*.
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- 2021 16. \*\* Faramand Z, Helman S, Ahmad A, Martin-Gill C, Saba S, Callaway C, Gregg R, Wang J, & **Al-Zaiti SS**. Performance and Limitations of Automated ECG Interpretation Statements in Patients with Symptomatic Coronary Artery Disease. *Journal of the Electrocardiology*, Vol 69:45.
17. \*\* Bouzid Z, Faramand Z, Gregg R, Helman S, Martin-Gill C, Saba S, Callaway C, Sejdic E, & **Al-Zaiti SS**. Novel ECG Features and Machine Learning to Optimize Culprit Lesion Detection in Patients with Suspected Acute Coronary Syndrome. *Journal of the Electrocardiology*, Vol. 69:31.
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#### Computing in Cardiology (CinC)

- 2023      **36.** Gregg RE, An J, Bailey B, & Al-Zaiti SS. An Efficient Linear Phase High-Pass Filter for ECG. *Computing in Cardiology*; Vol. 50, pp. 1-4, IEEE.
- 37.** Riek NT, Elmer J, Al-Zaiti SS, & Akcakaya M. Predicting Recovery from Coma Following Cardiac Arrest with a Reduced Set of EEG Channels. *Computing in Cardiology*, Atlanta, GA, USA, IEEE, pp. 1-4, doi: 10.22489/CinC.2023.044

#### Heart Rhythm Society (HRS)

- 2023      **38.** Gokhale T, Bouzid Z, Riek, N, Van Dam P, Al-Zaiti, SS, & Saba S. Direction of Repolarization in baseline ECG are predictive of response to cardiac resynchronization therapy. *Heart Rhythm*; 20(5): S360-361.

#### European Society of Cardiology (ESC)

- 2025      **39.** Lopez Ayala, P., Strebel, I., Riek, N., Kaplan, E., Herraiz-Recuenco, L., Hure, G., Al-Zaiti SS & Mueller, C. External validation of the ECG-SMART model: a machine learning algorithm for ECG diagnosis of occlusion myocardial infarction. *European Heart Journal*, 46(Supplement\_1), ehaf784-1994.

#### European Society of Intensive Care Medicine (ESICM)

- 2022      **40.** Rooney S, Kaufman R, Goswami M, Miller K, Al-Zaiti SS, Dubrawski A, & Clermont G. Detecting Atrial Fibrillation on Unlabeled, Continuously Streamed Data Using Weak Supervision.
- 2021      **41.** Helman S, Terr T, Pellathy T, Williams A, Dubrawski A, Clermont G, Pinsky M, Al-Zaiti SS, & Hravnak M. A User Engaged Iterative Design for the Graphical Interactive Display of Machine Learning-Based Intelligent Alerting Systems.
- 42.** Welter G, Dubrawski A, Pellathy T, Helman S, Lagattuta T, Hravnak M, Pinsky M, Clermong G, & Al-Zaiti SS. High-Frequency Sampling and Signal Quality Indices Boost the Performance of Online Classification of Real Alerts versus Artifacts in Multi-Signal Vital Signs Monitoring Data.

#### The Canadian Congress of Cardiology (CCC)

- 2018      43. \*\* Al-Zaiti, SS., Faramand, Z., Martin-Gill, C., & Callaway, C. Demographic and Clinical Predictors of ACS in Patients with Prehospital Chest Pain and Benign ECG Findings. *Canadian Journal of Cardiology*, 34(10): S201-S202.
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*The International Nursing Research Congress*

- 2019      45. Frisch, S. O., Faramand, Z., Martin-Gill, C., Callaway, C., & Al-Zaiti, SS. Patient Factors at Emergency Department Nurse Triage Predictive of ACS.

**NATIONAL PRESENTATIONS**

**\*\* indicates podium**

*American Heart Association (AHA) Scientific Sessions*

- 2025      46. Ji, R. Q., Riek, N., Dzikowicz, D., & Al-Zaiti, S. External Validation of an AI-ECG algorithm for Occlusive Myocardial Infarction Detection in a General Chest Pain Population. *Circulation*, 152(Suppl\_3), A4367453-A4367453.
47. \*\* Kraevsky, K., Scott, P., Henker, R., Tuite, P., Zegre-Hemsey, J., Callaway, C., & Al-Zaiti, S. Using an Algorithm-based Decision Support Tool to Identify the Most Likely Source of Dyspnea in Patients With Heart Failure Presenting to the Emergency Department. *Circulation*, 152(Suppl\_3), A4346161-A4346161.
48. \*\* Ji, R. Q., Riek, N., Gokhale, T., Akcakaya, M., Sejdic, E., & Al-Zaiti, S. Fusion Machine Learning Architectures for Improving ECG classification of acute coronary events. *Circulation*, 152(Suppl\_3), A4368538-A4368538.
- 2024      49. \*\* Bani Hani, D.A., Alshraideh, J.A., Alduraidi, H., Al-Zaiti SS. Novel Systemic Inflammatory Biomarkers Can Predict Significant Coronary Disease in High-Risk Patients. *Circulation*; 150(Suppl\_1): *in press*
50. \*\* Kraevsky-Phillips, K., Scott, P., Thangavel, S., Al-Zaiti SS. Most Important Predictors of 30-Day Death in Patients with Heart Failure Presenting with Acute Dyspnea. *Circulation*; 150(Suppl\_1): *in press*
51. Atoum H, Qi Ji R., Abu-Hannaneh M, Alduraidi H, Alsharaideh J, Sejdic E, and Al-Zaiti SS. Feasibility of Using Wearables to Obtain High-Fidelity ECG Signals for Cardiovascular Disease Screening in Palestinian Refugees in Jordan. *Circulation*; 150(Suppl\_1): *in press*
52. \*\* Kraevsky-Phillips, K., Ji, R.Q., Thangavel, S., Al-Zaiti SS. Machine learning identifies predictors of poor outcomes in patients with heart failure presenting to the emergency department for chest pain. *Circulation*; 150(Suppl\_1): *in press*

- 2023
53. \*\* Helman S, Riek N, Sereika S, Gaynor W, Olsen R, Lisanti A, **Al-Zaiti SS**. Exploring Novel Data-Driven Clustering Methods for Uncovering Patterns in Longitudinal Neonatal Postoperative Temperature Measurements. *Circulation*; 150(Suppl\_1): *in press*
54. Kraevsky-Phillips K, Callaway CW, Henker RA, Scott P, **Al-Zaiti SS**. Black Patients with Heart Failure Living in Distressed Communities Disproportionately Experience Excess Risk of Mortality After Emergency Department Visit for Dyspnea. *Circulation*; 148(Suppl\_1):A17315.
55. Prasad PA, Zegre-Hemsey JK, Carey M, **Al-Zaiti SS**, Sommargren CE, Isola L, Mortara D, Badilini F, Pelter MM. Comparison of the Frequency and Time to True Ventricular Tachycardia Among Patients in the Cardiac, Medical/Surgical and Neurologic Intensive Care Units. *Circulation*; 148(Suppl\_1):A13943.
- 2022
56. Bouzid Z, Faramand Z, **Al-Zaiti SS**, & Sejdic E. Evaluating sex-disparities in machine learning decision support tools for acute coronary syndrome classification in the emergency department. *Circulation*, 146(S1): A15435.
57. Rooney S, Kaufman R, Goswami M, Miller K, **Al-Zaiti SS**, Pinsky M, Dubrawski A, & Clermont G. Using Weakly Supervised Machine Learning to Label AFIB in Real-World Intensive Care Unit Telemetry Data. *Circulation*, 146(S1): A10198.
58. Ahmad A, Daoud M, Faramand Z, **Al-Zaiti SS**. Increased T Wave Amplitude In Lead aVR is a Strong Predictor of Reduced Left Ventricular Ejection Fraction In Suspected Acute Coronary Syndrome. *Circulation*, 146(S1): A15858
59. Zègre-Hemsey J, Crandell J, Wong E, Chronowski K, Tolentino A, Ronn K, Steege N, Frisch S, **Al-Zaiti SS**, Rosamond W, Dickson V, Pelter M, & DeVon H. Stable versus Dynamic Cardiac Symptom Characteristics are Associated with Adverse Outcomes Among Individuals Transported by Ambulance for Suspected Acute Coronary Syndrome. *Circulation*, 146(S1): A10852.
- 2021
60. \*\* Kraevsky-Phillips K, Bouzid Z, Ahmad A, Faramand Z, & **Al-Zaiti SS**. An Unsupervised Machine-Learning-Based Approach Elucidates the Prognostic Value of Symptom Clusters in Heart Failure Patients Evaluated in the Emergency Department. *Circulation*, 144(Suppl\_1): A12673
61. Ahmad A., Faramand Z, Mahmoud A, Gregg R, & **Al-Zaiti SS**. Fragmented QRS with Benign Early Repolarization Pattern is a Strong Predictor of Adverse Events in Patients with Suspected Acute Coronary Syndrome. *Circulation*, 144: A12595
62. Bouzid Z., Faramand Z, Frisch S, Gregg R, Sejdic E, & **Al-Zaiti SS**. ECG-Based Risk Stratification of Long-Term Mortality in Suspected Acute Coronary Syndrome. *Circulation*, 144(Suppl\_1), A12636.
63. Helman S., Herrup E, Christopher A, & **Al-Zaiti SS**. The Role of Machine Learning-Based Decision Support Tools for Diagnosing and Assessing Congenital Heart Disease. *Circulation*, 144(Suppl\_1), A12262.
- 2020
64. Ahmad, A., Alhamaydeh, M., Faramand, Z., Gregg, R., Saba, S., & **Al-Zaiti SS**. (2020). Identifying the Most Important ECG Predictors of Reduced Ejection Fraction in Patients With Suspected Acute Coronary Syndrome. *Circulation*, 142(Suppl\_3), A13596-A13596.

- 2019
65. \*\* **Al-Zaiti SS**; Abu-Jaradeh O; Faramand Z; Al-Ghouleh I; Conley Y. Effect of Ischemic Preconditioning on Apoptosis and Autophagy: A Potential Key Role in ST-Elevation vs. Non-ST Elevation Acute MI. *Circulation*, 140:A16285
  66. \*\* Frisch S; Hongjin L; Faramand Z; Callaway C; Martin-Gill C; Sejdic E; **Al-Zaiti SS**. Using Predictive Machine Learning Modeling for the Nursing Triage of Acute Chest Pain at the Emergency Department. *Circulation*, 140:A14879
  67. Abu-Jaradeh O; Ahmad A; Frisch S; Faramand Z; Landis P; Mahmoud A; Callaway C; Martin-Gill C; **Al-Zaiti SS**. Supplemental Oxygen is Associated With Larger Infarct Size but Not Excess Risk of Adverse Cardiac Events in Non-ST Elevation Myocardial Infarction. *Circulation*, 140:A11501
  68. Alhamaydeh M; Ahmad A; Frisch S; Faramand Z; Saba S; Gregg R, Callaway C; Martin-Gill C; **Al-Zaiti SS**. Tpeak–Tend Interval on the Prehospital 12-lead ECG is a Strong Predictor of Adverse Cardiac Events in Patients With Suspected Acute Coronary Syndrome. *Circulation*, 140:A11508
  69. Mahmoud A; Hongjin L; Abu-Jaradeh O; Frisch S; Faramand Z; Callaway C; Martin-Gill C; **Al-Zaiti SS**. Is HEART Score Adequate for Triaging Acute Chest Pain in Cancer Survivors? *Circulation*, 140:A14860
- 2018
70. Alhamaydeh, M., Faramand, Z., Martin-Gill, C., Callaway, C., & **Al-Zaiti, SS**. Should Paramedics Withhold Nitroglycerin in Patients With Prehospital Chest Pain Who Are Tachycardiac? *Circulation*, 138:A12389
  71. Frisch, S. O., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti, SS**. Geospatial Analysis of Chest Pain Patients That Call 9-1-1 in the City of Pittsburgh. *Circulation*, 138: A16400
- 2017
72. Frisch, S., Martin-Gill, C., Alrawashdeh, M., Callaway, C., & **Al-Zaiti SS**. Incidence and Predictors of Delaying Seeking Emergent Medical Care Among Patients With Suspected Acute Coronary Syndrome. *Circulation*;136:A18707
  73. DeSantis, A., Landis, P., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. Predictors of Emergency Medical Personnel’s Decision to Transmit or Not to Transmit the Prehospital 12-Lead ECG of Patients With Suspected Acute Myocardial Infarction. *Circulation*;136:A18641
  74. Faramand, Z., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. Evaluating the Diagnostic Accuracy of Clinical Risk Scores to Detect Acute Coronary Syndrome in Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. *Circulation*; 136:A19451
  75. Rivero, D., Alhamaydeh, M., Martin-Gill, C., Callaway, C., Drew, B., & **Al-Zaiti SS**. The Prevalence of Secondary Repolarization Abnormalities Confounding the Electrocardiographic Diagnosis of Acute Myocardial Ischemia in Patients Presenting With Chest Pain. *Circulation*;136:A18750
  76. Alhamaydeh, M., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. Time of Day and Day of Week Variations in Chest Pain Encounters at the Prehospital Setting. *Circulation*;136:A18689

- 2016 77. Alhamaydeh, M., Rivero D., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. ECG Characteristics of Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. *Circulation*; 134:A15745
- 2015 78. \*\* **Al-Zaiti SS**, Pike R, Williams J, & Khraim F. The Hemodynamic Determinants and Physiologic Correlates of QTc Interval Using Impedance Cardiography in Heart Failure. *Circulation* 132(Suppl 2): A15631
- 2014 79. **Al-Zaiti SS**, Carey MG, Canty MJ, and Fallavollita JA. The Role of Heart Rate Variability in Predicting Sudden and Non-Sudden Cardiac Death in Ischemic Heart Disease. *Circulation* 130(Suppl 2): A14269.
- 2013 80. \*\* **Al-Zaiti SS**, Carey MG, Canty MJ, and Fallavollita JA. The Prognostic Value of Positive T waves in Lead aVR: A Simple Risk Marker of Sudden and Non-Sudden Cardiac Death in Patients With Ischemic Cardiomyopathy and Poor Left Ventricular Ejection Fraction. *Circulation* 128(22): A17920.

**Society of Critical Care Medicine (SCCM)**

- 2026 81. Aqtash, S., Kraevsky-Phillips, K., Hravnak, M., Pinsky, M., Teh, C. E., Clermont, G., & **Al-Zaiti, S**. Alert burden as a marker of mortality in intermediate and intensive care units. *Critical Care Medicine*, 54(3S).
- 2025 82. Kraevsky-Phillips, K., Aqtash, S., Teh, C.E., Lagattuta, T., Pinsky, M.R., Hravnak, M., Clermont, G, **Al-Zaiti SS**. Types of Audible Patient Monitor Alerts Encountered in a Step-Down Unit. *Critical Care Medicine*, in press
83. **Al-Zaiti SS.**, Kraevsky-Phillips, K., Aqtash, S., Teh, C.E., Lagattuta, T., Pinsky, M.R., Hravnak, M., Clermont, G. Feasibility of Developing an Alert Burden Index to Assist Nurse-Patient Assignments. *Critical Care Medicine*, in press
84. Brown C, Callaway C, Martin-Gill C, Saba S, **Al-Zaiti SS**, Helman S. Association Between Mortality and Acute Myocardial Infarction with and Without ST-Elevation. *Critical Care Medicine*, in press
85. **Al-Zaiti SS.**, Kraevsky-Phillips, K., Aqtash, S., Vedant S., Teh, C.E., Lagattuta, T., Pinsky, M.R., Hravnak, M., Clermont, G. Evaluating Hypoxemia Burden as a Mortality Predictor in Step-Down Units. *Critical Care Medicine*, in press
- 2024 86. \*\* Hravnak M, Aqtash S, Kraevsky-Phillips K, Lagattuta T, Pinsky M, Clermont G, & **Al-Zaiti SS**. Distribution of Continuous Vital Signs Monitoring Alerts at the Bedside. *Critical Care Medicine*, Vol. 52(1), S590.
- 2023 87. \*\* Rooney S, Hravnak M, **Al-Zaiti SS**, Clermont G. Racial Differences in Commercial Monitoring Software Detection of Atrial Fibrillation. *Critical Care Medicine*, Vol. 50(1):
- 2022 88. Hravnak M, Clermont G, Helman S, Pellathy T, Lagattuta T, Saul M, George B, Pinsky M, **Al-Zaiti SS**. Medical Emergency Team (MET) Calls for Ward Patients After Down-Transfer From an ICU. *Critical Care Medicine*, Vol. 50(1):617
89. Helman S, Terry M, Hravnak M, Pellathy T, George B, Pinsky M, **Al-Zaiti SS**, Clermont G. User-Engaged Design of a Graphical User Interface for Instability Decision Support in the ICU. *Critical Care Medicine*, Vol. 50(1):269

**American College of Cardiology (ACC) Scientific Sessions**

- 2026           **90.** Ahmad, A., Saba, S. F., Riek, N. T., Faramand, Z., Tiyyagura, S., & **Al-Zaiti S.** Increased risk of MACE in patients with cardiac implantable electronic devices presenting with suspected ACS. *Journal of the American College of Cardiology*, 87(13\_Supplement), A804-A804.
- 2025           **91.** Gokhale T, Riek NT, Medoff B, Sejdic E, Akcakaya M, Saba SF, Al-Zaiti SS, and Toma C. ECG-Based Identification of Intermediate and High-Risk Pulmonary Embolism. *Journal of the American College of Cardiology*, 85(12) :2162-2162.
- 2024           **92.** Gokhale T, Riek NT, Bouzid Z, Medoff B, Viqar A, Sejdic E, Akcakaya M, Saba SF, **Al-Zaiti SS**, Toma C. Risk Stratification of Pulmonary Embolism via ECG-Based Machine Learning Model. *Journal of the American College of Cardiology*. Vol. 83(13\_Supplement):2315
- 93.** Ahmad A, Faramand Z, Pless A, Abuhannaneh M, Shamoone FE, **Al-Zaiti SS**. Disparities in analgesia administration in a racial diverse population for the management of acute chest pain in the emergency department. *Journal of the American College of Cardiology*. Vol. 83(13\_Supplement):1788.
- 2022           **94.** Ahmad A, Faramand Z, Wang J, Gregg R, Martin-Gill C, Callaway C, Saba S, and **Al-Zaiti SS**. Vessel-Specific ECG Leads as a Novel Strategy for Myocardial Ischemia Detection in Patients with Suspected Acute Coronary Syndrome. *Journal of the American College of Cardiology*, 79(9\_Supplement):150
- 2013           **95.** \*\* Carey MG, Fallavollita JA, Canty MJ, and **Al-Zaiti SS**. ECG Predictors of Mortality among Implantable Cardioverter-Defibrillator Candidates for the Primary Prevention of Sudden Cardiac Death. *JACC*; 61: E616.

**American College of Emergency Physicians (ACEP)**

- 2021           **96.** \*\*Faramand, Z., Ahmad, A., Martin-Gill, C., Callaway, C., & **Al-Zaiti, S.** Two Thirds of Patients with ACS in High-Risk Chest Pain Have a Negative First Conventional Troponin. *Annals of Emergency Medicine*, 78(4), S41.

**Emergency Nursing (ENA Annual Conference)**

- 2018           **97.** Faramand, Z., Frisch S., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. HEART score: Valid assessment tool for cocaine associated chest pain
- 98.** Frisch S., Faramand, Z., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. Resolution of Ischemic ECGs Changes in Prehospital Chest Pain Patients

**Eastern Nursing Research Society (ENRS)**

- 2023           **99.** Gallagher M, Helman S, Scott P, **Al-Zaiti SS**. Demographic and Clinical Characteristics of Acute Coronary Syndrome Patients with Single Versus Multi-Vessel Coronary Occlusion.
- 100.** Helman S, Sereika S, Hravnak M, Henker R, Riek N, Herrup E, Lisanti A, Gaynor W, Olsen R, Kennedy A, **Al-Zaiti SS**. An exploratory analysis of neonatal temperature trajectories after open heart surgery.

- 2019      **101.**      \*\* Landis P.; Faramand Z.; Zegre-Hemsey J.; Frisch S.; Ren D.; Callaway C.; Frisch A.; & **Al-Zaiti SS.** The Prevalence and Outcomes of Morphine Use in the Initial Management of Patients with Acute Myocardial Infarction
- 2016      **102.**      \*\* Alrawashdeh, M., **Al-Zaiti, S.**, Sejdic, E., Martin-Gill, C., & Callaway, C. Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients. *Nursing Research*; 65(2):E94.

**Council for the Advancement of Nursing Science (CANS)**

- 2022      **103.**      **Al-Zaiti SS**, Bouzid Z, Faramand Z, Martin-Gill C, Saba S, Akcakaya M, Clermont G, Callaway C, Sejdic E. Evaluating race-disparities in machine learning decision support tools for acute coronary syndrome classification in the ED.
- 2016      **104.**      \*\* **Al-Zaiti, SS**; Rittenberger J; Reis, S; and Hostler D. The Impact of Exertional Heat Stress on Cardiovascular Responses in Fire Suppression and Recovery.
- 2010      **105.**      \*\* **Al-Zaiti SS**; Liao L; Martin H; Butler R; and Carey MG. Metabolic Syndrome: Quantified and Reduced in Firefighters

**OTHER REGIONAL PRESENTATIONS**

**\*\* indicates podium**

**Grand Rounds**

- 2025      **106.**      \*\* **Al-Zaiti SS.** Advancing Emergency Cardiac Care: Where Cardiology Meets Artificial Intelligence. *Think AI Conference, Stanford University, CA*
- 107.**      \*\* **Al-Zaiti SS.** Machine Learning for the ECG Diagnosis and Risk Stratification of Acute Coronary Occlusions. *SUNY Upstate, Syracuse, NY*
- 108.**      \*\* **Al-Zaiti SS.** Advancing Emergency Cardiac Care: Where Cardiology Meets Artificial Intelligence. *Dean's Series Lecture, University of Rochester, NY*
- 2024      **109.**      \*\* **Al-Zaiti SS.** Machine Learning for the ECG Diagnosis and Risk Stratification of Occlusion Myocardial Infarction. *Henry Ford Hospital, Detroit, MI*
- 110.**      \*\* **Al-Zaiti SS.** Advancing Emergency Cardiovascular Care: The Convergence of Biomedical Informatics and Machine Learning. *SUNY Buffalo, Buffalo, NY*
- 2023      **111.**      \*\* **Al-Zaiti SS.** Intelligent Clinical Decision Support to Improve Patient Outcomes: A Decade of Experience. *University of Rochester, Rochester, NY*
- 112.**      \*\* **Al-Zaiti SS.** Machine Learning for the ECG Diagnosis and Risk Stratification of Occlusion Myocardial Infarction. *Stony Brook University, Stony Brook, NY*
- 113.**      \*\* **Al-Zaiti SS.** Intelligent ECG Methods for Myocardial Ischemia Detection. Senior Vice Chancellor's Research Seminar Series, *University of Pittsburgh, PA*
- 2022      **114.**      \*\* **Al-Zaiti SS.** Machine-learning based clinical decision tools and intelligent alerting systems. *University of Iowa, Iowa City, Iowa*

- 2019      **115.**      **\*\* Al-Zaiti SS.** Frontiers in AI Algorithms: ECG Methods for the Prompt Identification of Coronary Events. *Stanford University, San Francisco, CA*
- 2018      **116.**      **\*\* Al-Zaiti SS.** Establishing a Program of Research in a Research-Intensive Institution: Lesson Learned. *University of Texas at Houston, Houston TX*
- 2018      **117.**      **\*\* Al-Zaiti SS.** Big Data in Cardiology: Machine Learning and the Electrocardiogram. *State University of New York at Buffalo, Buffalo, NY*

**AHA Fellows Research Day (Northeast Affiliate)**

- 2023      **118.**      Helman S, Sereika S, Hravnak M, Henker R, Riek N, Herrup E, Lisanti A, Gaynor W, Olsen R, Kennedy A, **Al-Zaiti SS.** An exploratory analysis of neonatal temperature trajectories after open heart surgery.
- 2018      **119.**      Faramand, Z., Frisch S., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS.** Evaluating the Diagnostic Accuracy of Clinical Risk Scores to Detect ACS in Patients with Chest Pain.
- 2016      **120.**      **\*\* Alrawashdeh, M., Sejdic, E., Martin-Gill, C., & Callaway, C, Al-Zaiti, SS.** Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients.

**McGowan Institute Scientific Retreat**

- 2018      **121.**      **\*\* Al-Zaiti SS, ... & Sejdic E.** Novel Methodologies and Technologies to Detect and Analyze Physiological Markers of Clinical Interest.

**SAFAR Symposium (University of Pittsburgh)**

- 2022      **122.**      Kraevsky-Phillips K, ..., & **Al-Zaiti SS.** Unsupervised Machine Learning of Symptom Clusters in Heart Failure Patients Evaluated in the ED.
- 2021      **123.**      Kates L, Faramand Z, **Al-Zaiti SS.** The Prevalence of ECG Findings Encountered by Paramedics During Ambulance Transport
- 2017      **124.**      Faramand, Z., Frisch S., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS.** HEART score: Valid assessment tool for cocaine associated chest pain

**Pittsburgh Health Data Alliance (PHDA) Annual Retreat**

- 2017      **125.**      **\*\* Al-Zaiti SS** and Sejdic E. EMPIRE: A smart detection system for rapid diagnosis of heart attacks

**MENTORING & SUPERVISION**

**Junior Faculty**

<b><i>Scholar and Affiliation</i></b>	<b><i>Period / Role</i></b>	<b><i>Project Title</i></b>
Dillon Dzikowicz, PhD, RN Assistant Professor University of Rochester	9/2024–current <b>Mentor</b>	“Implementing a Clinical Decision Support System to Classify NSTEMI-ACS Patients”
Sukardi Suba, PhD, RN Assistant Professor University of Rochester	9/2024–current <b>Mentor</b>	“AI Driven Learning for Event Recognition and Treatment using Real-Time Monitoring Data (ALERT)”

Tanmay Gokhale, MD Cardiology Fellow UPMC	9/2022–6/2024 <b>Mentor</b>	“Risk Stratification of Pulmonary Embolism via ECG-Based Machine Learning Model”
Sydney Rooney, MD Cardiology Fellow UPMC	9/2021–6/2024 <b>Mentor</b>	“Forecasting imminent atrial fibrillation in long-term electrocardiogram recordings”
Andrew M. Dierkes, PhD, RN Assistant Professor University of Pittsburgh	9/2021–6/2023 <b>Mentor</b>	“Intelligent Methods for Optimizing Nursing Staff Allocation to Improve Patient Outcomes”
Theresa Koleck, PhD, RN Assistant Professor University of Pittsburgh	6/2018–5/2023 <b>Mentor</b>	“Advancing Chronic Condition Symptom Cluster Science Through Use of EHR and Data Science”

### International Visiting Scholars

<i>Scholar and Affiliation</i>	<i>Training Period</i>	<i>Project Title</i>
Hadeel Atoum, MD Hashemite University, Jordan	7/2023–6/2024 <b>Mentor</b>	“Feasibility of Using Wearables to Obtain High-Fidelity ECG Signals for Cardiovascular Disease Screening in Palestinian Refugees in Jordan”
Abdullah Ahmad Sultan, MD University of Jordan, Jordan	7/2019–6/2020 <b>Mentor</b>	“Fragmented QRS with Benign Early Repolarization Pattern as a Strong Predictor of Adverse Events in Patients with Suspected Acute Coronary Syndrome”
Omar Abu-Jaradeh, MD Hashemite University, Jordan	9/2018–6/2019 <b>Mentor</b>	“Association between supplemental Oxygen and Infarct Size in Non-ST Elevation Myocardial Infarction”
Mohammad Alhamaydeh, MD University of Jordan, Jordan	1/2017–12/2017 <b>Mentor</b>	“Time of Day and Day of Week Variations in Chest Pain Encounters at the Prehospital Setting”

### Postdoctoral Research Fellows

<i>Name of Postdoc Fellow &amp; Source of Support</i>	<i>Training Period &amp; Role</i>	<i>Project Title</i>
Stephanie Helman, RN, PhD UL1TR001857	1/2024–12/2025 <b>Mentor</b>	“Improving outcomes in neonates with congenital heart defects after cardiopulmonary bypass surgery”
Ziad Faramand, MD, MS R01HL137761	9/2018–6/2022 <b>Mentor</b>	“Comparison of Clinical Risk Score for Detecting Acute Coronary Syndrome at the Emergency Department”
Donald T Smith, PhD, RN, AG-ACNP-BC, FF/EMT-P T32NR008857	9/2014–8/2016 <b>Mentor</b>	“Analyzing Safety, Effectiveness, and Outcomes of a 5-Level Triage System in the Prehospital Care Environment”

*PhD Dissertation Research*

<i>Name of Student, Department, &amp; Source of Support</i>	<i>Training Period &amp; Committee Role</i>	<i>Project Title</i>
Rui Qi Ji <i>School of Engineering – University of Toronto, Canada</i>	9/2023–9/2027 <b>External Examiner</b>	“AI-Augmented ECG to screen for subclinical coronary artery disease”
Karina Kraevsky-Phillips, <i>University of Pittsburgh, SON T32NR008857</i>	9/2021–4/2025 <b>Chair</b>	“Data-Driven Phenotyping of Dyspnea in Symptomatic Patients with Heart Failure”
Dania Bani Hani, RN, MSN <i>School of Nursing – University of Jordan, Jordan</i>	1/2024–4/2025 <b>External Examiner</b>	“Prospective external validation of AI-ECG models for diagnosing occlusion myocardial infarction”
Nathan Riek, BS. <i>Electrical &amp; Computer Engineering Department R01HL137761</i>	7/2022–4/2025 <b>Co-Chair</b>	“Machine learning methods and approaches to analyze biomedical signals and to optimize clinical decision support in healthcare”
Navpreet Kamboj, RN, PhD(c) <i>School of Nursing – University of Toronto, Canada</i>	1/2024–1/2025 <b>External Examiner</b>	“Developing a NITROglycerin Dose Titration Decision Support System (NITRO DSS)”
Zeineb Bouzid, BS, MSc., <i>Electrical &amp; Computer Engineering Department R01HL137761</i>	9/2020–4/2024 <b>Co-Chair</b>	“Unveiling the potential of the 12-lead ECG in predicting ACS: from understanding the diagnostic value of handcrafted features to exploring hidden patterns in the ECG signal”
Stephanie Helman, RN, CNS, <i>School of Nursing T32NR008857 F31 NR 018589</i>	9/2019–12/2023 <b>Chair</b>	“Use of Predictive Analytics to Quantify Neonatal Hypothermia Burden After Cardiac Surgery”
Stephanie Frisch, RN, CCRN, <i>School of Nursing T32NR008857 F31NR018589</i>	9/2017–8/2020 <b>Chair</b>	“Triage chest pain patients in the emergency department: a novel machine learning approach”
Tiffany Pellathy, RN, ACNP <i>School of Nursing F31NR018102</i>	9/2018–8/2020 <b>Member</b>	“Machine Learning to Determine Dynamically Evolving New-Onset Venous Thromboembolic (VTE) Event Risk in Hospitalized Patients”
Mohammad Alrawashdeh, RN, MSN, <i>School of Nursing T32NR008857</i>	9/2015–8/2017 <b>Member</b>	“Clinicians’ Acceptance of Interactive Health Technologies to Support Patients’ Self-Management”

### DNP Capstone

<i>Name of Student, Department, &amp; Source of Support</i>	<i>Training Period &amp; Committee Role</i>	<i>Project Title</i>
Danielle Schwimer, RN, BSN <i>School of Nursing</i>	9/2018–8/2019 <b>Member</b>	“A Quality Improvement Project to Enhance QTc Interval Monitoring in a Critical Care Setting: Pre and Posttest Study”

### Master’s Thesis

<i>Name of Student, Department, &amp; Source of Support</i>	<i>Training Period &amp; Committee Role</i>	<i>Project Title</i>
Mohammad Hamaideh, MD <i>School of Public Health East Carolina University, Greenville, NC, USA</i>	1/2023–6/2024 <b>External Examiner</b>	“Comparative effectiveness of the HEART score in triaging diabetic and non-diabetic patients with Chest Pain”
Shaima’a Shatnawi, RN <i>School of Nursing – Jordan University of Science &amp; Technology, Irbid, Jordan</i>	1/2024–6/2024 <b>External Examiner</b>	“Intention to use mobile health technologies among healthcare providers in dialysis units in Jordan”
Abdullah Ahmad, MD, MPH <i>School of Public Health Tufts University</i>	9/2021–6/2023 <b>External Examiner</b>	“Disparities in Analgesia Administration in a Racial Diverse Population for the Management of Acute Chest Pain in the Emergency Department”
Zeineb Bouzid, BS, MSc., <i>Electrical &amp; Computer Engineering Department R01HL137761</i>	9/2019–8/2020 <b>Co-Chair</b>	“Novel Approaches to ECG Feature Selection for Dimensionality Reduction to Optimize ACS Detection using the 12-Lead ECG”
Ziad Faramand, MD <i>Clinical &amp; Translational Science Institute (CTSI) R01HL137761</i>	9/2019–8/2020 <b>Co-Chair</b>	“Prognostic Value of HEART score in Patients with Cocaine Associated Chest Pain: An Age-and-Sex Matched Cohort Study”
Lucas Besomi, BS <i>Electrical &amp; Computer Engineering Department R01HL137761</i>	9/2018–8/2019 <b>Co-Chair</b>	“Predicting Acute Myocardial Ischemia using Machine Learning applied to Standard 10-second 12-lead ECG”
Kamal Althobaiti, BS <i>School of Public Health</i>	9/2018–8/2019 <b>Member</b>	“Examining HIV Prevalence and Cultural Implications of HIV Awareness in the Middle East”

### BSN Honors Thesis

<i>Name of Student, Department, &amp; Source of Support</i>	<i>Training Period &amp; Committee Role</i>	<i>Project Title</i>
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Catherine Brown <i>Univ. of Pitt, School of Nursing</i> R01HL137761	1/2023–4/2025 <b>Chair</b>	“The Association Between Mortality and Occlusion Myocardial Infarction with and Without ST-segment Elevation”
Colleen Gunn <i>Univ. of Pitt, School of Nursing</i> R01HL137761	1/2023–4/2025 <b>Co-Chair</b>	“The Prevalence, Depth, and Duration of Postoperative Hypothermia in Neonates with Congenital Heart Defects after Cardiopulmonary Bypass”
Maura Gallagher <i>Univ. of Pitt, School of Nursing</i> R01HL137761	9/2022–4/2023 <b>Chair</b>	“Demographic and Clinical Characteristics of Acute Coronary Syndrome Patients with Single Versus Multi-Vessel Coronary Occlusion”
Alexandra Tolassi <i>Univ. of Pitt, School of Nursing</i> R01HL137761	9/2021–4/2022 <b>Chair</b>	“Associations between treatment-seeking delay and clinical course of patients with suspected acute coronary syndrome at initial ED encounter”
Lacey Maclay <i>Univ. of Pitt, School of Nursing</i> R01HL137761	9/2020–8/2021 <b>Chair</b>	“The Role of Inflammation, Immune Responses, and Ischemic Preconditioning in Acute Myocardial Infarction”
Jennifer Stemler <i>Univ. of Pitt, School of Nursing</i> R01HL137761	9/2020–8/2021 <b>Chair</b>	“Taking a Closer Look at Using the Emergency Severity Index Tool at Emergency Department Triage for Patients Who Present with Suspected ACS”
Parker Landis <i>Univ. of Pitt, School of Nursing</i>	9/2017–8/2018 <b>Chair</b>	“Evaluating the Safety of Morphine Use in the Management of Patients with Acute Coronary Syndrome”
Diana Rivero <i>Univ. of Pitt, School of Nursing</i>	9/2016–8/2017 <b>Chair</b>	“Electrocardiographic abnormalities and their effect on Clinical Decision Making in patients presenting to the emergency department with chest pain”

## Other Research Trainees Funded and Mentored by Dr. Al-Zaiti

### Undergraduate Research Assistants (n=15)

Catherine Brown (2023–2024)  
Maura Gallagher (2021–2023)  
Katherine McGrath (2021–2022)  
Lacey Mclay (2019–2021)  
Jennifer Stemler (2019–2021)  
Adrian Bermudez (2018–2019)  
Madeline Reiche (2018–2019)  
Parker Landis (2017–2019)  
Victoria Tori (2017–2018)  
Amber DeSantis (2016–2018)  
Kelsey Walden (2015–2016)

### Graduate Students Researchers (n=12)

#### Nursing

Karina Kraevsky-Phillips (2022-current)  
Stephanie Helman (2020–2024)  
Hongjin Li (2018–2019)  
Mohammad Alrawashdeh (2014–2017)  
Heba Khalil (2015–2016)  
Khalil Yousef (2015–2016)  
Justin Bala-Hampton (2013–2014)

#### Engineering

Rui Qi (2023-current)  
Sajida Aqtash (2023-current)

Diana L Rivero (2014–2017)  
Katherine G McCoy (2014–2015)  
Connor R McClellan (2014–2015)  
Lindsey R. Buchanan (2014–2015)  
Melinda M Douglas (2013–2015)

Nathan Riek (2022–current)  
Zeinab Bouzid (2019–2024)  
Lucas Besomi (2018–2019)  
Aya Khalaf (2017–2018)  
Nicholas Scangas (2014–2015)

## TEACHING

### Teaching Awards & Honors

2018      **Dean’s Distinguished Teaching Award**  
University of Pittsburgh

2020      **Chancellor’s Distinguished Teaching Award**  
University of Pittsburgh

### Classroom Teaching (Didactic)

<i>Course Number &amp; Title</i>	<i>Level &amp; Class Size</i>	<i>Terms Taught</i>
NUR 3082: Introduction to Machine Learning in Healthcare (3 credits)	PhD, 6-8 students	Summer 2020, Fall 2022, Summer 2023, Sum 2024
NUR 3287: Research Design and Methods (3 credits)	PhD, 6-8 students	Spring 2019, 2020, 2021, 2022
NUR 2078: Clinical Diagnostics (3 credits)	DNP, ~10 students	Summer 2015, 2016, 2017, 2021
NUR 2004: Advanced Pathophysiology Across the Life Span (4 credits)	DNP, 107 students	Fall 2016
NUR 0005: Nursing Honors Seminar (1 credit)	BSN, ~20 students	Fall 2020, 2021
NUR 0053: Introduction to Inclusion, Equity and Diversity in Health Care (1 credit)	BSN, 20 students	Spring 2020
NUR 0067: Nursing Research: An Introduction to Critical Appraisal and EBP (3 credits)	BSN, ~60 students	Fall 2019, Spring 2020
NUR 0088: Introduction to Basic Statistics for Evidence Based Practice (3 credits)	BSN, ~60 students	Fall 2017, Spring 2018

### Clinical Teaching

<i>Course Number &amp; Title</i>	<i>Level &amp; Class Size</i>	<i>Terms Taught</i>
NUR 1134: Transition into Professional Nursing	BSN, 5-7 students	Fall 2015, 2016, Spring 2016, 2017
NUR 1121: Advanced Clinical Problem Solving	BSN, 7-8 students	Spring 2016, 2017

### Clinical Skills Lab

<i>Course Number &amp; Title</i>	<i>Level &amp; Class Size</i>	<i>Terms Taught</i>
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NUR 2031: Diagnostic Physical Exam	DNP, 5-7 students	Fall 2014, 2015, 2016, Spring 2015, 2016, 2017
NUR 0081: Foundations of Nursing Practice I	BSN, 7-8 students	Spring 2014

### Guest Lectures

<i>Course, Topic and Time Commitment</i>	<i>Level &amp; Class Size</i>	<i>Terms Taught</i>
NUR 0067: Nursing Research “Systematic Reviews & Meta-Analysis” (1.5 hours)	BSN, 45-50 students	Spring 2021, 2022; Fall 2022
NUR 2004: Advanced Pathophysiology “Altered Cardiovascular Function” (6 hours divided over two weeks)	DNP, ~50 students	Fall 2017, 2018, 2019, 2020, 2021, 2022, 2023, Spring 2018, 2019, 2020, 2021, 2022, 2023, 2024, Summer 2018, 2019, 2020, 2021, 2022, 2023, 2024
NUR 2078: Clinical Diagnostics “Basic 12-Lead ECG Interpretation” (3 hours)	DNP, ~10 students	Summer, 2018, 2019, 2020
NUR 3789: Physical Diagnosis Anesthesia “Advanced 12-Lead ECG Interpretation” (6 hours divided over two weeks)	Nurse Anesthesia, ~40 students	Fall 2020, 2021, 2022
NUR 3044: Cancer Survivorship “Systematic & Scoping Reviews” (3 hours)	PhD, ~5-6 students	Fall 2019, 2021
BIOENG 2151: Medical Product Ideation “ECG Devices for EMS Providers” (Mentored capstone project over 15 weeks)	M.Eng., ~5-6 students	Fall 2015, 2016
BIOENG 2151: Medical Product Development “ECG for Telehealth Applications” (Mentored capstone project over 15 weeks)	M.Eng., ~5-6 students	Spring 2016, 2017
NUR 3030: Professional Development “Keys of Success for Junior Faculty” (2 hours)	PhD, 5-6 students	Fall 2015, 2016
NUR 0082: Nursing Care of Adults “Cultural Sensitivity in Nursing Care” (1 hour)	BSN, ~100 students	Fall 2015, 2016, 2017

### Continuing Education

<i>Topic and Contact Hours</i>	<i>Level &amp; Class Size</i>	<i>Terms Taught</i>
“Intro to Machine Learning in Healthcare” (6 contact hours)	Nurse Researchers ~25	Fall 2023, Spring 2024
“Basic 12-Lead EKG Interpretation” (9 contact hours divided over 3 weeks)	Registered Nurses, ~20 students	Summer 2014, 2015, 2016, 2018
“Update on Coronary Artery Diseases”	Registered Nurses,	Spring, 2015

(3 contact hours)

~20 students

## **PROFESSIONAL SERVICE**

### **International Society of Computational Electrocardiology (ISCE)**

2010–	Professional Member
2017–	Abstract Reviewer
2015–2018	Chair, Poster Session
2018–	Chair, Conference Proceedings
2018–	Liaison, <i>Journal of Electrocardiology</i>
2020–2022	Judge, Jos Willems Early Career Investigator Award Competition
2020–2023	Elected Officer, Board of Directors
2022	Conference Co-Chair, 46 <sup>th</sup> Annual ISCE Meeting, Las Vegas, NV
2023	Conference Chair, 47 <sup>th</sup> Annual ISCE Meeting, Indian Wells, CA
2023–2026	Treasurer, Execute Board, Board of Directors
2026–2029	Vice President, Execute Board, Board of Directors

### **American Heart Association (AHA)**

2012–	Professional Member
2016–2019	Member, Early Career Committee
2016–	Abstract Reviewer, Physiological Aspects of Acute Cardiovascular Care
2017–	Fellow of the American Heart Association (FAHA)
2018–2021	Member, Research Mentoring Committee
2018–2020	Member, Kathleen Dracup Award Committee
2018–2020	Writing Group Member, AHA Scientific Statements Taskforce
2019	Moderator, Early Career Scientific Session
2020–2022	Member, Marth N Hill New Investigator Award Committee
2020–2022	Member, Marie Cowan Promising Young Investigator Award Committee
2022–	Member, CVSN Leadership Committee
2022–2024	Chair, Marth N Hill Early Career Investigator Award Committee
2024	Moderator, Digital Poster Session #17, AHA Sessions, Chicago IL
2025	Moderator, Digital Poster Session #23, AHA Sessions, New Orleans LA

### **Editorial Boards**

2012–	Section Editor (ECG Puzzler), <i>American Journal of Critical Care</i>
2018–2024	Associate/Executive Editor, <i>Journal of Electrocardiology</i>
2020–2024	General Editorial Board, <i>Heart &amp; Lung</i>
2022–2024	Guest Editor, <i>Physiologic Measurement</i>
2023–	General Editorial Board, <i>European Heart Journal – Digital Health</i>
2025–	Editor-in-Chief, <i>Heart &amp; Lung</i>

### **NIH Study Sections**

02/2019	Reviewer, Biomedical Computing & Health Informatics (BCHI)
06/2022	Reviewer, Organization and Delivery of Health Services (ODHS)
06/2022	Reviewer, Special Emphasis Panel (ZRG1 HSS-L)
02/2023	Reviewer, Clinical Informatics & Digital Health (CIDH)
06/2023	Reviewer, Special Emphasis Panel, All of Us Data (ZRG1 IVBH)

02/2024	Reviewer, Clinical Data Management and Analysis (CDMA)
10/2024	Reviewer, Clinical Data Management and Analysis (CDMA)
02/2025	Reviewer, Clinical Data Management and Analysis (CDMA)
06/2025	Reviewer, Clinical Data Management and Analysis (CDMA)
02/2026	Reviewer, Clinical Data Management and Analysis (CDMA)
04/2026	Reviewer, Clinical Data Management and Analysis (CDMA)

### Reviewer for Promotion Materials

2020	School of Nursing, Taibah University, Medina, Saudi Arabia
2022	School of Nursing, Case Western Reserve University, Cleveland, OH, USA
2022	School of Nursing, The Hong Kong Polytechnic University, Hong Kong
2023	School of Nursing, University of Iowa, Iowa City, IA, USA
2024	School of Medicine, Mayo Clinic, Rochester, MN, USA
2024	School of Nursing, Purdue University, West Lafayette, IN, USA
2024	School of Nursing, UCSF, San Francisco, CA, USA
2025	School of Nursing, Jordan University of Science & Technology, Jordan
2025	School of Nursing, UC Davis, Davis, CA, USA
2026	School of Nursing, King Saud University, Jeddah, Saudi Arabia

### Ad-hoc Peer Reviewer of Scientific Journals

2011–current	<i>Journal of Electrocardiology</i> (IF = 1.44)
2014–current	<i>Heart &amp; Lung</i> (IF = 1.73)
2014–current	<i>EUROPACE</i> (IF = 5.23)
2016–current	<i>Circulation: Cardiovascular Quality and Outcomes</i> (IF = 4.61)
2016–current	<i>Public Library of Science (PLoS One)</i> (IF = 3.75)
2017–current	<i>Medical and Biological Engineering and Computing</i> (IF = 2.60)
2018–current	<i>Journal of Cardiovascular Nursing</i> (IF = 1.53)
2018–current	<i>Critical Care</i> (IF = 19.33)
2018–current	<i>Prehospital Emergency Care</i> (IF = 2.42)
2020–current	<i>Journal of American College of Cardiology (JACC)</i> (IF = 24.09)
2021–current	<i>Scientific Reports</i> (IF = 4.99)
2021–current	<i>Journal of the American Heart Association (JAHA)</i> (IF = 6.12)
2022–current	<i>Circulation</i> (IF = 39.92)
2022–current	<i>Nature Medicine</i> (IF = 87.24)

### Abstract Reviewer

2010–2016	Sigma Theta Tau International (STTI)
2014–2016	Council for the Advancement of Nursing Science (CANS)
2016	Eastern Nursing Research Society (ENRS)
2016–current	American Heart Association (AHA) Scientific Sessions
2017–current	International Society of Computerized ECG (ISCE)

### Local Service

#### University of Rochester (2024-now)

- University-Wide Service

2024– Entrepreneur Outreach Program, UR Ventures  
2026– Research Computing Operations Committee (RCOC)

➤ School of Nursing Service

2024– Member, PhD Council  
2024– Co-Lead, Cardiovascular Nursing Research HUB

**University of Pittsburgh (2013-2023)**

➤ University-Wide Service

2016 Patent Reviewer, Office of Technology Management (OTM)  
2017–2019 Grant Reviewer, Clinical and Translational Science Institute (CTSI)  
2018–2021 Member, Senate Plant Utilization and Planning Committee (3-year term)  
2019–2021 Faculty Representative, Pathways Committee, Provost Office  
2021–2024 Member, Chancellor’s Distinguished Teaching Award Committee  
2019–2024 Grant Reviewer, CTSI Pilot Awards Program  
2023–2024 Member, Provost’s Advisory Council on Tenure and Promotion (PACTP)

➤ Office of Community Partnership:

2015 Health Fair Coordinator, Hosted at the Universal Academy of Pittsburgh in Swissvale PA, and co-sponsored by UPMC Health Plan and Walgreens

➤ School of Nursing Service:

2013–2015 Member, Academic Integrity Committee  
2014–2015 Member, Evaluation & Steering Committee  
2015 Reviewer, Cameos of Caring Awards  
2015–2024 Member, PhD Council  
2015–2017 Chair, Evaluation & Steering Committee  
2015–2017 Member, School-Wide Curriculum Committee  
2015–2017 Member, Planning & Budget Committee  
2016–2018 Member, PhD Progression & Graduation Committee  
2017 Reviewer, Leslie Hoffman Research Award  
2018–2020 Chair, PhD Progression & Graduation Committee  
2019–2021 Chair, BSN Honors Committee  
2019–2021 Chair, Reva Rubin Research Award  
2020–2021 Chair, Interprofessional Education Committee  
2021–2022 Chair, Roth Endowment Undergraduate Research Fund  
2022–2023 Chair, Leslie Hoffman Research Award

*I certify that this curriculum vitae is a current and accurate statement of my professional record.*

Signature:

Salah Al-Zaiti

Date:

4/2/2026