

October, 2018

Curriculum Vitae**Salah S. Al-Zaiti, PhD, RN, CRNP, ANP-BC, FAHA****Home Address:** xx**Citizenship:** xxx**Home Telephone:** (412) xxx-xxxx**Business Address:** University of Pittsburgh
School of Nursing
3500 Victoria Street
336 Victoria Building
Pittsburgh, PA 15261**Email Address:** ssa33@pitt.edu**Business Phone:** (412) 624-4369**Business Fax:** (412) 383-7227EDUCATION**GRADUATE**

2010 – 2013	Ph.D. (Cardiovascular Nursing)	School of Nursing SUNY, University at Buffalo, Buffalo NY
2008 – 2010	M.S.N (Adult Nurse Practitioner)	School of Nursing SUNY, University at Buffalo, Buffalo NY

UNDERGRADUATE

2002 – 2006	BSN (Nursing)	School of Nursing The Hashemite University, Jordan
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APPOINTMENTS AND POSITIONS**ACADEMIC****University of Pittsburgh, Pittsburgh PA**

2016 – Present	Assistant Professor (Secondary appointment)	School of Medicine Department of Emergency Medicine
2015 – Present	Graduate Faculty	The Graduate School of Health Sciences
2013 – Present	Assistant Professor – (Tenure Track)	School of Nursing Department of Acute and Tertiary Care

SUNY University at Buffalo, Buffalo NY

2011 – 2013	Teaching Assistant	Simulation Lab, School of Nursing SUNY, University of Buffalo
2008 – 2010	Research Assistant	Center for Research in Cardiovascular Medicine SUNY, University of Buffalo

NON-ACADEMIC

2010 – 2011	Nurse Practitioner	Diabetes and Endocrinology Center of WNY Kaleida Health, Buffalo, NY
2006 – 2008	Registered Nurse	Bone Marrow Transplantation King Hussein Cancer Center, Amman, Jordan

LICENSURE AND CERTIFICATION

2010 – 2017	RN #612022	New York
2010 – 2017	NP #F305328	New York
2010 – 2020	ANP-BC #2010002855	American Nurses Credentialing Center (ANCC)
2013 – 2016	RN #648240	Pennsylvania
2013 – 2016	CRNP #013039	Pennsylvania

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2015 – Present	Emergency Nurses Association (ENA)
2011 – Present	American Heart Association (AHA)
2009 – Present	International Society of Computerized Electrocardiography (ISCE)
2009 – Present	Sigma Theta tau, The Honor Society of Nursing, Gamma Kappa Chapter

HONORS

2017	Fellow of the American Heart Association
2016	EMPIRE: Novel EKG Methods for NSTEMI Detection, US Patent # 62/146,775
2015	Marie Cowan Promising Young Investigator Award, Council on CVSN, AHA
2014	Martha N Hill New Investigator Award, Council on CVSN, AHA
2013	Ruth G Elders Award for Excellence in Nursing Research, SUNY at Buffalo
2013	Best Abstract Award, ISCE
2012	Graduate Student Excellence in Teaching Award, SUNY at Buffalo
2011	Jos Willems Young Investigator Finalist, ISCE
2011	Petsan G Novan Nursing Scholarship, SUNY at Buffalo
2010	Anne Sengbusch Award for Excellence in Leadership, SUNY at Buffalo
2009 – 2013	Woodburn Presidential Fellowship, SUNY at Buffalo
2009	Sigma Theta Tau, Gamma Kappa Chapter
2006	Distinguished Nurse Award, Jordanian Nursing Council, Jordan
2006	Chancellor's Award for Student Excellence, The Hashemite University, Jordan

FUNDED RESEARCH PROJECTS

PENDING

1R21NR018000-A1 (Al-Zaiti)	7/1/19 – 6/30/21	1.20 calendar
NIH/NINR	\$416,998 (total)	Role: PI

Impact Score on A0 = 26

Vessel-Specific ECG Leads (VSEL): A Novel Solution for the Simple and Accurate Detection of Acute Cardiac Ischemia during Nursing Care

This study proposes 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—for detecting acute cardiac ischemia in patients with chest pain.

ACTIVE

1 R01 HL 137761 (Al-Zaiti)	4/15/18 – 1/31/22	4.80 calendar
NIH/NHLBI	\$1,479,372 (total)	Role: PI

Impact Score = 20 / Percentile Rank 3%

Electrocardiographic Detection of Non-ST Elevation Myocardial Events for Accelerated Classification of Chest Pain Encounters (ECG-SMART)

This study aims to develop machine-learning-based clinical decision support tool using ECG data that would allow the real-time identification of acute coronary events in the prehospital setting, as well as identifying 30-day major adverse cardiac events.

University of Pittsburgh (Al-Zaiti)	7/1/16 – 4/30/19	1.20 calendar
Central Research Development Fund	\$16,000	Role: PI

Non-ST Elevation Myocardial Ischemia: The Role of Cell Survival Genes

This study examines the molecular genetic basis of how cells are preconditioned to survive death during the evolution of acute myocardial infarction. We specifically plan to evaluate the gene expression of DRAM2 as an underlying mechanism to modulate the development of non-ST elevation myocardial injury.

ENA Foundation (Frisch)	10/1/18 – 9/30/19	<i>in-kind contribution</i>
STT/ENA Research Award	\$6,000	Role: Mentor

Elevating the Burden of ED Overcrowding: Developing a New Cardiac Triage Tool

This dissertation study aims to develop a modified, chest-pain-specific ED triage tool that incorporates the abundant data available during the initial triage. We plan to utilize recent novel advances in data mining and machine learning to train and validate algorithms that extract significant data elements and features that correlate with defined patient outcomes.

COMPLETED

1UL1TROO1857-01 (Reis)	2/1/17 – 9/30/17	1.20 calendar
NIH/NCATS (sub-award #0050952)	\$25,000	Role: PI

Modeling Repolarization Lability on ECG Signals to Detect Acute Myocardial Injury Pathways in Patients with Chest Pain

This study developed tools to evaluate the beat-to-beat repolarization lability from the standard 12-lead ECG and tested the clinical value of alternans and non-alternans T wave components in detecting myocardial ischemia during acute chest pain.

Univ. of Pitt. Medical Center (Al-Zaiti)	7/1/15 – 6/30/16	1.20 calendar
Competitive Medical Research Fund	\$24,000	Role: PI

ECG Methods for the Prehospital Identification of NSTEMI: Feasibility Study

This pilot study aimed to evaluate the feasibility of using novel metrics of ECG repolarization to detect NSTEMI during prehospital care.

ENA Foundation (Al-Zaiti)	1/1/15 – 12/31/15	0.60 calendar
Technology Research Award	\$6,000	Role: PI

Redefining ECG Interpretation in Emergency Departments

This study aimed to compare the prevalence, trend, and patterns of ischemic ECG changes observed in prehospital versus in-hospital ECGs in patients with chest pain.

University of Pittsburgh (Al-Zaiti) 7/1/14 – 6/30/16 1.20 calendar
 Central Research Development Fund \$15,000 Role: PI

Redefining the Pretest Probability of Ischemia Prior to Nuclear Stress Testing

This study aimed to test the diagnostic accuracy and predictive value of novel ECG metrics and their dynamic changes during stress testing as markers of ischemia prior to SPECT scans (single-photon emission tomography) in patients with chest pain.

University of Pittsburgh (Al-Zaiti) 7/1/14 – 6/30/15 1.20 calendar
 Central for Medical Innovation \$12,000 Role: PI

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

This pilot study established the feasibility of developing automated signal processing methods for the acquisition, transmission, and analysis of ECGs in the 15-ambulance Pittsburgh EMS system.

Memorial Univ. of Newfoundland (PI: Khraim) 7/1/14 – 6/30/16 *in-kind contribution*
 Heart Failure Research Award --- Role: OSC

Cardiac Hemodynamic measures of Persons with Heart Failure Using Impedance Cardiography

This study recorded simultaneous ECG and hemodynamic measures using impedance method. We analyzed ECG parameters of interest and evaluated their real-time correlates of cardiac function. The results are published at *Biological research for nursing*; 2017, doi:1099800417737835.

R21-NR011202 (PI: Pelter, UCSF) 7/1/14 – 6/30/15 *in-kind contribution*
 NIH/NINR --- Role: OSC

COMPARE Study: Electrocardiographic Evaluation of Ischemia Comparing Invasive to Conservative Approaches

We used the already-existing data from this study to evaluate new parameters of ischemia that would improve diagnostics and clinical outcomes of patients with heart attacks. The results of this secondary analysis were published at *J of Am Heart Association*; 2015, Vol. 4(7). pii: e002057.

EMW-FP-02245 (PI: Hostler) 7/1/13 – 6/30/14 *in-kind contribution*
 Federal Emergency Management Agency --- Role: OSC

Impact of Work-Rest on Performance and Recovery among Professional Firefighters

This study developed a perceptual hyperthermia index to evaluate heat strain during real-time simulated fire experiment during which Holter ECG recordings were obtained (n = 47). I performed the on-site supervision of ECG acquisition, and later the offline analysis of ECG signal. The results are published at *J of Occupational and Environmental Medicine*; 2015, Vol. 57(9):938-42

SUNY University at Buffalo (Al-Zaiti) 7/1/12 – 6/30/13 6.0 calendar
 Sigma Theta Tau Dissertation Award \$1,500 Role: PI

Meta-Analysis of Heterogeneity of Electrical Repolarization (MAHER)

This dissertation synthesized more than 100 outcome studies in the field of ECG in the past 15 years. A serial of 24 parallel meta-analyses (n = 349,756) were conducted to validate the clinical utility of 8 novel ECG parameters to predict sudden death, cardiac death, and all-cause death in various populations. The results are published at *Heart & Lung*; 2014, Vol. 43(6):516-26.

R01-HL076252 (PI: Fallavollita & Canty) 7/1/11 – 6/30/13 3.0 calendar
 NIH/NHLBI --- Role: Research Staff

Prediction of Arrhythmic Events using Positron Emission Tomography (PAREPET)

This 5-year follow-up study examined the relationship between hibernating myocardium and the

genesis of arrhythmic death (n = 204). A large number of clinical and ECG parameters were analyzed and used to create a risk prediction model. I took the lead on annotating and analyzing digital ECG data. I was a lead-author on two data-based publications from this study.

R01-DK 075877 (PI: Dandona) 1/1/11 – 6/30/11 3.0 calendar
NIH/NIDDK --- Role: Clinical Research Nurse

Suppression of Toll-Like Receptors using Insulin in Type 2 Diabetic Patients

This experimental trial evaluated the effect of insulin infusion on oxidative stress in diabetic and obese individuals (n = 30). I was a clinical research nurse responsible for screening, enrollment, and conduction of the experiment, which included fat and muscle biopsies and carotid Doppler ultrasound evaluation.

R21-NR011077 (PI: Carey) 9/1/08 – 8/31/10 6.0 calendar
NIH/NINR --- Role: Project Manager

Surveying & Assessing Firefighters Fitness and Electrocardiogram (SAFFE)

This observational study included on-duty evaluation of cardiac function and the prevalence of cardiac risk among professional firefighters (n = 118). ECG monitoring and treadmill exercise stress testing were used to quantify cardiac risk. As a project director, I coordinated the implementation of the study. I was a lead-author on two data-based publications from this study.

PUBLICATIONS

Data-Based Papers

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| Pending | <ol style="list-style-type: none"> 1. Faramand Z., Frisch SO; Al-Robaidi K., Alrawashdeh M., Alhamaydeh M., Callaway C., Martin-Gill C., & Al-Zaiti SS. The Diurnal, Weekly, and Seasonal Variations of Chest Pain in Patients Transported by Emergency Medical Services. <i>Prehospital Emergency Care</i>, Under Review. 2. Al-Zaiti SS, Pietrasik G., Carey MG, Alhamaydeh M., Canty JM & Fallavollita JA. The Role of Heart Rate Variability, Heart Rate Turbulence, and Deceleration Capacity in Predicting Cause-Specific Mortality in Chronic Heart Failure. <i>Journal of Electrocardiology</i>. Under Review. 3. Frisch SO; Faramand Z., Li H.; Callaway C., Martin-Gill C., & Al-Zaiti SS. Predictors of Delay in Seeking Emergency Care in Patients with Suspected Acute Coronary Syndrome. <i>Patient Education</i>, Under Review 4. Frisch SO; Faramand Z., Alhamaydeh M., Alrawashdeh M., Callaway C., Martin-Gill C., & Al-Zaiti SS. The Clinical Significance of ST Elevation Resolution in Prehospital Chest Pain. <i>American Journal of Cardiology</i>, Under Review |
| 2018 | <ol style="list-style-type: none"> 5. Rivero D., Alhamaydeh M., Faramand Z., Martin-Gill C., Callaway C., Drew B., and Al-Zaiti SS. Nonspecific Electrocardiographic Abnormalities Are Associated with Increased Length of Stay and Adverse Cardiac Outcomes in Prehospital Chest Pain. <i>Heart & Lung: Journal of Acute and Critical Care</i>, In press. |

6. Faramand Z., Frisch SO; DeSantis A., Alrawashdeh M., Martin-Gill C., Callaway C., **Al-Zaiti SS**. Lack of Significant Coronary History and ECG Misinterpretation Are the Strongest Predictors of Undertriage in Prehospital Chest Pain. *Journal of Emergency Nursing*, In press.
7. **Al-Zaiti SS**, Faramand Z., Alrawashdeh M., Sereika S., Martin-Gill C., Callaway C. Comparison of Clinical Risk Scores for Triaging High-Risk Chest Pain Patients at the Emergency Department. *American Journal of Emergency Medicine*, In Press, doi.org/10.1016/j.ajem.2018.06.020
8. **Al-Zaiti SS**, Sejdic E, Nemeč J, Callaway C, Soman P, Lux R. Spatial Indices of Repolarization Correlate with Non-ST Elevation Myocardial Ischemia in Patients with Chest Pain. *Medical & Biological Engineering & Computing*, 56(1):1-12.
- 2017 9. **Al-Zaiti SS**, Alrawashdeh, M., Martin-Gill, C., Callaway, C., Mortara, D., & Nemeč, J. Evaluation of Beat-to-Beat Ventricular Repolarization Lability from Standard 12-Lead ECG during Acute Myocardial Ischemia. *Journal of Electrocardiology*, 50(6):717-724
10. **Al-Zaiti SS**, Saba, S., Pike, R., Williams, J., & Khraim, F. Arterial Stiffness is Associated with QTc Interval Prolongation in Patients with Heart Failure. *Biological Research for Nursing*, 20(3):255-263.
- 2016 11. **Al-Zaiti, S. S.**, & Magdic, K. S. Paroxysmal Supraventricular Tachycardia: Pathophysiology, Diagnosis, and Management. *Critical Care Nursing Clinics of North America*, 28(3), 309-316.
- 2015 12. **Al-Zaiti SS**, Martin-Gill C, Sejdic E, Al-Rawashdeh M, and Callaway CW. Rationale, Development, and Implementation of Electrocardiographic Methods for the Prehospital Identification of Non-ST Elevation Myocardial Infarction (EMPIRE). *Journal of Electrocardiology*, Vol. 48(6):921-6.
13. **Al-Zaiti SS**, Callaway CW, Kozik TM, Carey MG, & Pelter MM. Clinical Utility of Ventricular Repolarization Dispersion for Real-Time Detection of Non-ST Elevation Myocardial Infarction in Emergency Departments. *Journal of American Heart Association*, Vol. 4(7). pii: e002057.
14. **Al-Zaiti SS**, Rittenberger JC, Reis SE, & Hostler D. Electrocardiographic responses during fire suppression and recovery among experienced firefighters. *Journal of Occupational and Environmental Medicine*, Vol. 57(9):938-42.
15. **Al-Zaiti SS**, Carey MG, Cauty Jr. JM, & Fallavollita JA. The Prognostic Value of Discordant T waves in Lead aVR: A Simple Risk Marker of Sudden Cardiac Arrest in Ischemic Cardiomyopathy. *Journal of Electrocardiology*, Vol. 48(5):887-92.
- 2014 16. Liao L, **Al-Zaiti SS**, and Carey MG. Depression and heart rate variability in firefighters. *SAGE Open Medicine*; Vol. 2: pii: e2050312114545530.
17. **Al-Zaiti SS**, Fallavollita JA, Wu YW, Tomita MR, & Carey MG. Electrocardiogram-Based Predictors of Clinical Outcomes: A Meta-Analysis of the Prognostic Value of Ventricular Repolarization. *Heart & Lung*. Vol. 43(6):516-26.

18. **Al-Zaiti SS** & Carey MG. The Prevalence of Clinical and Electrocardiographic Risk Factors of Cardiovascular Death among On-Duty Professional Firefighters. *Journal of Cardiovascular Nursing*, Vol. 44(1):59-62.
19. **Al-Zaiti SS**, Carey MG, Fallavollita JA, & Canty JM. Electrocardiographic Predictors of Sudden and Non-Sudden Cardiac Death in Ischemic Cardiomyopathy. *Heart & Lung: The Journal of Acute and Critical Care*. Vol. 43(6):527-33.
- 2013 20. **Al-Zaiti SS**, Shusterman V, & Carey MG. Novel Technical Solutions for Wireless ECG Transmission and Analysis in the Age of the Internet Cloud. *Journal of Electrocardiology*. Vol. 46(6):540-45.
- 2012 21. Carey MG, **Al-Zaiti SS**, Canty Jr. JM, & Fallavollita JA. High-Risk Electrocardiographic Parameters are Ubiquitous in Patients with Ischemic Cardiomyopathy. *Annals of Noninvasive Electrocardiology*. Vol. 17(3):241-251.
- 2011 22. **Al-Zaiti SS**, Runco KN, & Carey MG. Increased T-Wave Complexity Can Indicate Subclinical Myocardial Ischemia in Asymptomatic Adults. *Journal of Electrocardiology*. Vol. 44(6):684-8.
23. Carey MG, **Al-Zaiti SS**, Dean GE, Sessanna L, & Finnell DS. Sleep Problems, Depression, Substance Use, Social Bonding, and Quality of Life in Professional Firefighters. *J of Occupational & Environmental Medicine*. Vol. 53(8):928-933.
24. Carey MG, **Al-Zaiti SS**, Liao LM, Martin HN & Butler RA. A Low-Glycemic Nutritional Fitness Program to Reverse Metabolic Syndrome in Professional Firefighters. *Journal of Cardiovascular Nursing*. Vol. 26(4):298-304.
- 2010 25. Carey MG, Luisi AJ, Baldwa S, **Al-Zaiti SS**, Veneziano MJ, deKemp RA, Canty JM, & Fallavollita JA. The Selvester QRS Score is More Accurate than Q Waves and Fragmented QRS Complexes Using the Mason-Likar configuration in Estimating Infarct Volume in Patients with Ischemic Cardiomyopathy. *Journal of Electrocardiology*. Vol. 43(4):318-325.

Invited Editorials & Reviews

- 2016 26. **Al-Zaiti SS**, & Magdic KS. Paroxysmal Supraventricular Ventricular Tachycardia: Pathophysiology, Diagnosis, & Management. *Critical Care Nursing Clinics*, 28(3), 309-316.
- 2015 27. **Al-Zaiti SS**. Inflammation-Induced Atrial Fibrillation: Pathophysiological Perspectives and Clinical Implications. *Heart & Lung*. Vol. 44(1):59-62.
- 2011 28. **Al-Zaiti SS**, Khasawneh MK, & Carey MG. Syncope: An Uncommon Presentation of Ischemic Cardiomyopathy. *Journal for Nurse Practitioners*. Vol. 7(5):385-391.

Editorials: ECG Puzzler

- 2018 29. **Al-Zaiti SS**, Kozik, T. M., Pelter, M. M., & Carey, M. G. The Value of Lead aVR: A Frequently Neglected Lead. *Am J Critical Care*, 27(3), 249-250.

- 2017
30. Carey, M. G., **Al-Zaiti SS**, Kozik, T. M., & Pelter, M. M. Managing Older Persons with Multiple ECG Features. *Am J Critical Care*, 27(2), 161-162.
 31. Kozik, T. M., **Al-Zaiti SS**, Carey, M. G., & Pelter, M. M. Prognostic ECG Changes in A Preoperative Assessment. *Am J Critical Care*, 27(1), 77-78.
 32. Pelter, M. M., Kozik, T. M., **Al-Zaiti SS**, & Carey, M. G. undetectable P Waves. *Am J Critical Care*, 26(6), 509-510.
 33. **Al-Zaiti SS**, Kozik, T. M., Pelter, M. M., & Carey, M. G. Global ST-T Wave Changes: Ischemic vs Nonischemic. *Am J Critical Care*, 26(5), 425-426.
 34. Carey, M. G., **Al-Zaiti SS**, Kozik, T. M., & Pelter, M. M. Sources of QRS couplets. *Am J Critical Care*, 26(4), 349-350.
 35. Kozik TM, **Al-Zaiti SS**, Carey MG, & Pelter MM. Predictive Pattern for Acute Myocardial Infarction. *Am J Critical Care*. Vol. 26(3):257-8.
 36. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Similar ECG Features in 2 Different Diagnoses. *Am J Critical Care*. Vol. 26(2):169-70.
 37. **Al-Zaiti SS**, Pelter MM, Kozik TM, & Carey MG. A Rare Disease With Cardiac Involvement. *American J of Critical Care*. Vol. 26(1):89-90.
- 2016
38. Carey MG, Kozik TM, Pelter MM, **Al-Zaiti SS**. Ventricular Ectopy in Hospitalized Elderly Adults. *Am J Critical Care*. Vol. 25(6):565-6
 39. Kozik TM, Carey MG, **Al-Zaiti SS** & Pelter MM. Repolarization Alterations in a Genetic Disorder. *Am J Critical Care*. Vol. 25(5):465-6.
 40. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Differential Diagnoses for Suspected ACS. *Am J Critical Care*. Vol. 25(4):377-8.
 41. **Al-Zaiti SS**, Pelter MM, Kozik TM, & Carey MG. Syncope With Profound Bradycardia. *American J of Critical Care*. Vol. 25(3):281-282.
 42. Kozik TM, Charos GS, **Al-Zaiti SS**, Carey MG, & Pelter MM. Symptomatic Bradycardia in a Healthy Older Adult. *Am J Critical Care*. Vol. 25(2):185-186.
 43. Carey MG, **Al-Zaiti SS**, Kozik TM, Schell-Chaple H & Pelter MM. QRS Amplitude Variation During Monitoring. *Am J Critical Care*. Vol. 25(1):97-8
- 2015
44. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Bedside ECG Alarm Management. *Am J Critical Care*. Vol. 24(6):545-6.
 45. **Al-Zaiti SS**, Crago EA, Hravnak M, Kozik TM, Pelter MM, & Carey MG. ECG Changes During neurologic Injury. *American J of Critical Care*. Vol. 24(5):453-4.

46. Kozik TM, Carey MG, **Al-Zaiti SS**, & Pelter MM. Drug Induced ECG Abnormalities. *Am J Critical Care*. Vol. 24(4):365-6.
47. Carey MG, **Al-Zaiti SS**, Kozik TM, & Pelter MM. Post-Myocardial Infarction Arrhythmias. *Am J Critical Care*. Vol. 24(3):369-270.
48. **Al-Zaiti SS**, Kozik TM, Pelter MM, & Carey MG. Prehospital 12-Lead ECGs and Delivery of Care. *Am J Critical Care*. Vol. 24(2):181-182.
49. Kozik TM, Pelter MM, **Al-Zaiti SS**, & Carey MG. Heart-Rate Induced Conduction Defects. *Am J Critical Care*. Vol. 24(1):93-94.
- 2014
50. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Acute Coronary Syndrome ST-Segment Monitoring. *Am J Critical Care*. Vol. 23(6):503-4.
51. Carey MG, **Al-Zaiti SS**, Kozik TM, & Pelter MM. Asymptomatic Irregular Cardiac Rhythm. *Am J Critical Care*. Vol. 23(5):429-430.
52. **Al-Zaiti SS**, Hostler D, Kozik TM, Pelter MM & Carey MG. Repolarization Abnormalities in Young Athletes. *American J of Critical Care*. Vol. 23(4):345-346.
53. Kozik TM, Gurinder GS, Pelter MM, **Al-Zaiti SS**, & Carey MG. Chest pain After Acute Illness. *Am J Critical Care*. Vol. 23(3):267-8.
54. Carey MG, **Al-Zaiti SS**, Kozik TM, & Pelter MM. Holiday Heart Syndrome. *Am J Critical Care*. Vol. 23(2): 171-2.
55. Kozik TM, Pelter MM, **Al-Zaiti SS**, & Carey MG. T Wave Amplitude Changes. *Am J Critical Care*. Vol. 23(1): 85-86.
- 2013
56. **Al-Zaiti SS**, Carey MG, Kozik TM, & Pelter MM. Neonatal Cardiac Monitoring. *Am J Critical Care*; 2013, Vol. 22(6): 533-4.
57. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Arrhythmias of Non-Cardiac Origin. *Am J Critical Care*; 2013, Vol. 22(5): 445-6.
58. **Al-Zaiti SS**, Carey MG, Kozik TM, & Pelter MM. Syncope and Cardiac Rhythms. *Am J Critical Care*; 2013, Vol. 22(4): 361-2.
59. Carey MG, Fan T, Pillow T, **Al-Zaiti SS**, Kozik TM, & Pelter MM. Emergency Evaluation of 12-Lead ECGs. *Am J Critical Care*. Vol. 22(3): 267-8.
60. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Implantable Electrical Devices. *Am J Critical Care*; 2013, Vol. 22(2): 163-4.
61. Carey MG, **Al-Zaiti SS**, Kozik TM, & Pelter MM. ECG Interpretation Confounders. *Am J Critical Care*; 2013, Vol. 22(1): 537-8.

- 2012
62. Kozik TM, Pelter MM, **Al-Zaiti SS**, & Carey MG. Sudden Shortness of Breath and Anxiety. *Am J Critical Care*; 2012, Vol. 21(6): 453-4.
 63. **Al-Zaiti SS**, Carey MG, Kozik TM, & Pelter MM. Indices of Sudden Cardiac Death. *Am J Critical Care*; 2012, Vol. 21(5): 365-6.
 64. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Impaired Impulse Formation. *Am J Critical Care*; 2012, Vol. 21(4): 293-4.
 65. Carey MG, **Al-Zaiti SS**, Kozik TM, & Pelter MM. ECG Screening of Special Populations. *Am J Critical Care*; 2012, Vol. 21(3): 209-10.
 66. Pelter MM, Kozik TM, **Al-Zaiti SS**, & Carey MG. Congenital Anomaly. *Am J Critical Care*; 2012, Vol. 21(2):131-2.
 67. **Al-Zaiti SS**, Pelter MM, & Carey MG. A New Puzzler guide. *Am J Critical Care*; 2012, Vol. 21(1):68-70.
- 2011
68. Pelter MM, **Al-Zaiti SS**, & Carey MG. Coronary Artery Dominance. *Am J Critical Care*; 2011, Vol. 20(5):401-2.
 69. Carey MG, **Al-Zaiti SS**, & Pelter MM. Computerized Algorithms. *Am J Critical Care*; 2011, Vol. 20(4):339-340.
 70. **Al-Zaiti SS**, Pelter MM, & Carey MG. Exercise Stress Treadmill Testing. *Am J Critical Care*; 2011, Vol. 20(3):259-60.
 71. Pelter MM, Carey MG, & **Al-Zaiti SS**. Bedside Monitoring for Transient Myocardial Ischemia. *Am J Critical Care*; 2011, Vol. 20(2):171-2.
- 2010
72. Carey MG, Pelter MM, & **Al-Zaiti SS**. Dynamic Conduction Defects. *Am J Critical Care*; 2010, Vol. 19(3):301-2.
 73. Carey MG, **Al-Zaiti SS**, & Pelter MM. Asystole. *Am J Critical Care*; 2010, Vol. 19(1):84-5.

Published Abstracts & Proceedings

- 2017
74. **Al-Zaiti SS**, Sejdic, E., Nemeč, J., Walden, K., Callaway, C; Soman, P.; & Lux, R. Spatial Indices of Repolarization Correlate with Non-ST Elevation Myocardial Ischemia in Patients with Chest Pain. *J of Electrocardiol*, 50(6), 864.
 75. 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

76. 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
77. 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
78. 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
79. 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 80. Alhamaydeh, M., Rivero D., Alrawashdeh, M., Martin-Gill, C., Callaway, C., & **Al-Zaiti SS**. Electrocardiographic Characteristics of Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. *Circulation*;134:A15745
81. **Al-Zaiti SS**, Alrawashdeh, M., Rivero, D., Martin-Gill, C., & Callaway, C. Widened QRS-T Angle on the Presenting 12-lead ECG Indicates non-ST Elevation Myocardial Infarction in Patients with Chest Pain. *J of Electrocardiol*, 49(6), 925.
82. Alrawashdeh, M., Al-Zaiti, S., Sejdic, E., Martin-Gill, C., & Callaway, C. (2016, March). Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients. *Nursing Research*; 65(2):E94.
- 2015 83. Khraim F, Pike R, Williams J, & **Al-Zaiti SS**. "Abstract 15631: The Hemodynamic Determinants and Physiologic Correlates of QTc Interval Using Impedance Cardiography in Heart Failure." *Circulation* 132(Suppl 2): A15631
- 2014 84. **Al-Zaiti SS**, Sethi A, Carey MG, Canty JM, and Fallavollita JA. Temporal complexity of depolarization indicates myocardial sympathetic denervation and predicts sudden cardiac arrest in patients with ischemic cardiomyopathy and poor left ventricular ejection fraction. *Journal of Electrocardiology* 47(6): 910.
85. **Al-Zaiti SS**, Carey MG, Canty MJ, and Fallavollita JA. "Abstract 14269: The Role of Heart Rate Variability in Predicting Sudden and Non-Sudden Cardiac Death in Ischemic Heart Disease." *Circulation* 130(Suppl 2): A14269.
- 2013 86. **Al-Zaiti SS**, Fallavollita JA, Canty JM, and Carey MG. Predicting mortality using heterogeneity of ventricular repolarization: A meta-analysis. *Journal of Electrocardiology* 46(6): 616.
87. **Al-Zaiti SS**, Carey MG, Canty MJ, and Fallavollita JA. "Abstract 17920: 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.

88. 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." *Journal of the American College of Cardiology* 61(10, Supplement): E616.
- 2010 89. Carey MG, **AL-Zaiti SS**, & Butler RA. Characteristics of the standard 12-lead Holter ECG in professional firefighters. 2010. *Computing in Cardiology*, Belfast, UK.
90. **Al-Zaiti SS**, Fallavollita JA, & Carey MG. Is the QRS-T angle a more sensitive marker of myocardial ischemia than ST-segment deviation? *Journal of Electrocardiology*; 2010, Vol. 43(6):640.
- 2009 91. Carey MG, & **Al-Zaiti SS**. Computer versus manual calculations of the spatial QRST angle. *Journal of Electrocardiology*; 2009, Vol. 42(6):608-9.

Presentations

International (** indicates podium presentations)

- 2018 1. "Demographic and Clinical Predictors of Acute Coronary Syndrome in Patients with Prehospital Chest Pain and Benign ECG Findings"
Canadian Congress of Cardiology, Ontario, Canada
2. "Beyond the ST-Segment: Novel Methods to Quantify Acute Myocardial Ischemia in Patients with Suspected Acute Coronary Syndrome"
International Society for Computerized ECG, Park City, UT
3. "Understanding The Demographic and Clinical Correlates of Quantitative Repolarization Parameters in Patients with Cardiovascular Risk Factors"
International Society for Computerized ECG, Park City, UT
- 2017 4. ** "Evaluation of Beat-to-Beat Ventricular Repolarization Lability from Standard 12-Lead ECG During Acute Myocardial Ischemia"
International Society for Computerized ECG, St Simon Island, GA
5. "Spatial Indices of Repolarization Correlate with Non-ST Elevation Myocardial Ischemia in Patients with Chest Pain"
International Society for Computerized ECG, St Simon Island, GA
- 2016 6. "Myocardial Ischemia and QRS-T Angle on the 12-Lead ECG"
International Society for Computerized ECG, Tucson, AZ
- 2015 7. ** "The Clinical Significance of Fragmented QRS and Widened QRS-T Angle in Systolic Dysfunction: Novel Insights Using Impedance Cardiography"
Canadian Congress of Cardiology, Ontario, Canada
8. ** "The Clinical Utility of Ventricular Repolarization Dispersion for Real-Time Detection of NSTEMI in Emergency Departments".
International Society for Computerized ECG, San Jose, CA

- 2014 9. “Increased Temporal Complexity of Depolarization Indicates Myocardial Sympathetic Denervation and Predicts Sudden Cardiac Arrest in Patients with Ischemic Cardiomyopathy and Poor Left Ventricular Ejection Fraction”.
International Society for Computerized ECG, Atlantic Beach, FL
- 2013 10. ** “Novel Technical Solutions for ECG Transmission: Clinical Perspectives”.
International Society for Computerized ECG, San Jose, CA
- 2012 11. “Electrocardiographic Dispersion and Mortality: Meta-Analysis”.
International Society for Computerized ECG, Birmingham, AL
- 2011 12. ** “Novel T-wave Loop Morphology Descriptors Can Predict Vulnerability to subclinical Myocardial Ischemia”.
International Society for Computerized ECG, San Jose, CA
- 2010 13. “Is the QRS-T Angle a Sensitive Marker of Myocardial Ischemia?”
International Society for Computerized ECG, Albuquerque, NM
14. “Stratifying Prehospital ECGs of ACS to Expedite Treatment Decisions at Emergency Departments” [Proposal Mentoring Workshop]
ISCE Scientific Summer School, Istanbul, Turkey
- 2009 15. “Automated Versus Manual Calculations of Spatial QRST angle”.
International Society for Computerized ECG, Panama City, FL

National (** indicates podium presentations)

- 2019 1. “Apoptosis and Autophagy in ST Elevation vs. Non-ST Elevation Acute Coronary Syndrome”.
American College of Cardiology, New Orleans, LA
2. “The Prevalence and Outcomes of Morphine Use in the Initial Management of Patients with Acute Myocardial Infarction”
Eastern Nursing Research Society (ENRS), Rhode Island, NE
- 2018 3. “Should Paramedics withhold Nitroglycerin in Patients with Prehospital Chest Pain who are tachycardiac?”
American Heart Association Scientific Sessions, Chicago, IL
4. “Geospatial Analysis for the Incidence of Acute Myocardial Infarction in the Area of the City of Pittsburgh”
American Heart Association Scientific Sessions, Chicago, IL
5. “HEART score: Valid assessment tool for cocaine associated chest pain”
Emergency Nurses Association (ENA), Pittsburgh, PA
6. “Resolution of Ischemic ECGs Changes in Prehospital Chest Pain Patients”
Emergency Nurses Association (ENA), Pittsburgh, PA
- 2017 7. “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”.
American Heart Association Scientific Sessions, Anaheim, CA

8. "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".
American Heart Association Scientific Sessions, Anaheim, CA
9. "Time of Day and Day of Week Variations in Chest Pain Encounters at the Prehospital Setting".
American Heart Association Scientific Sessions, Anaheim, CA
10. "Incidence and Predictors of Delaying Seeking Emergent Medical Care Among Patients with Suspected Acute Coronary Syndrome".
American Heart Association Scientific Sessions, Anaheim, CA
11. "The Prevalence of Secondary Repolarization Abnormalities Confounding the Electrocardiographic Diagnosis of Acute Myocardial Ischemia in Patients Presenting with Chest Pain".
American Heart Association Scientific Sessions, Anaheim, CA
- 2016 12. "Electrocardiographic Characteristics of Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain".
American Heart Association Scientific Sessions, New Orleans, LA
13. ** "Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients".
Eastern Nursing Research Society (ENRS), Pittsburgh PA
14. ** "Widened QRS-T Angle on the Presenting 12-Lead ECG Suggests Non-ST Elevation Myocardial Infarction in Patients with Chest Pain".
National Council on Undergraduate Research (NCUR), Ashville NC
- 2015 15. ** "The Hemodynamic Determinants and Physiologic Correlates of QTc Interval Using Impedance Cardiography in Heart Failure".
American Heart Association Scientific Sessions, Orlando, FL
- 2014 16. ** "The Role of Heart Rate Variability in Predicting Sudden and Non-Sudden Cardiac Death in Ischemic Cardiomyopathy".
American Heart Association Scientific Sessions, Chicago, IL
17. ** "The Impact of Exertional Heat Stress on Cardiovascular Responses in Fire Suppression and Recovery".
Council for the Advancement of Nursing Science, Washington DC
- 2013 18. ** "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".
American Heart Association Scientific Sessions, Dallas, TX
19. "ECG Predictors of Mortality among Implantable Cardioverter-Defibrillator Candidates for the Primary Prevention of Sudden Cardiac Death"
American College of Cardiology (ACC) Scientific Meeting, San Jose, CA
- 2010 20. ** "Metabolic Syndrome: Quantified and Reduced in Firefighters"
Council for the Advancement of Nursing Science, Washington DC

- 2010 21. “Sleep Quality and Sleep Patterns of On-Duty Professional Firefighters”.
Associated Professional Sleep Societies, San Antonio TX

*Regional (** indicates podium presentations)*

- 2018 1. “Evaluating the Diagnostic Accuracy of Clinical Risk Scores to Detect Acute Coronary Syndrome in Patients with Chest Pain”
AHA Fellows Research Day, Pittsburgh PA
2. “Novel Methodologies and Technologies to Detect and Analyze Physiological Markers of Clinical Interest”
McGowan Institute Scientific Retreat, Pittsburgh, PA
3. “HEART score: Valid assessment tool for cocaine associated chest pain”
SAFAR Symposium, University of Pittsburgh, Pittsburgh PA
- 2017 4. ** “EMPIRE: A smart detection system for rapid diagnosis of heart attacks”
Pittsburgh Health Data Alliance 1st Annual Meeting, Pittsburgh PA
- 2016 5. ** “Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients”
AHA Fellows Research Day, Pittsburgh PA
- 2015 6. ** “Redefining Pretest Probability of Myocardial Ischemia Using Computerized Electrocardiography: Pilot Results”
Nuclear Cardiology Research Seminars, University of Pittsburgh
- 2014 7. ** “EMPIRE: Electrocardiographic Methods for the Prehospital Identification of Non-ST Elevation CoRonary Events”
Emergency Research Seminar Series, University of Pittsburgh
- 2013 8. ** “Classic ECG Risk Factors and Sudden Cardiac Death in PAREPET”
Clinical & Translational Science Institute, University at Buffalo
- 2012 9. ** “Electrocardiographic Dispersion Indicates Poor Myocardial Viability”
Sigma Xi Day of Research Excellence, University at Buffalo
- 2012 10. ** “Perspectives on Teamwork in Multidisciplinary Translational Research”
Core Curriculum Seminars, Roswell Park Cancer Institute, NY
- 2011 11. ** “Firefighters Cardiovascular Health: Public Health Perspectives”
Brown Bag Seminars, School of Public Health, University at Buffalo
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Thesis, Dissertation, and Mentoring

Postdoctoral Research

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| 1. Ziad Faramand, MD | 2018–2019 |
| “Comparison of Clinical Risk Score for Detecting Acute Coronary Syndrome at the Emergency Department” (R01HL137761) | Role: Primary Mentor |
| 2. Donald T Smith, PhD, RN, AG-ACNP-BC, FF/EMT-P | 2014–2016 |
| “Analyzing Safety, Effectiveness, and Outcomes of a 5-Level Triage System in the Prehospital Care Environment” (T32NR008857) | Role: co-mentor |

PhD Dissertation

1. Stephanie Frisch, MSN, RN, CEN, CCRN 2017–2020
“Triaging chest pain patients in the emergency department: a novel machine learning approach” (T32NR008857, RWJF Future of Nursing Scholar) Role: Dissertation Chair
2. Tiffany Pellathy, RN, MS, ACNP-BC 2018-2020
“Machine Learning to Determine Dynamically Evolving New-Onset Venous Thromboembolic (VTE) Event Risk in Hospitalized Patients” (F31NR0000) Role: Committee Member
3. Mohammad Alrawashdeh, RN, MSN 2015–2017
“Clinicians’ Acceptance of Interactive Health Technologies to Support Patients’ Self-Management” (T32NR008857) Role: Committee Member

BSN Honors Thesis

1. Parker Landis 2017–2018
“Evaluating the Safety of Morphine Use in the Management of Patients with Acute Coronary Syndrome” Role: Thesis Chair
2. Victoria Remo 2017–2018
“Variations in Gene Expression in Patients with ACS” Role: Thesis Chair
3. Diana Rivero 2016–2017
“Electrocardiographic abnormalities and their effect on Clinical Decision Making in patients presenting to the emergency department with chest pain” Role: Thesis Chair

International Visiting Scholars

1. Mohammad Abu-Jaradeh, MD 9/2018–2/2019
(School of Medicine, Hashemite University, Jordan)
2. Mohammad Hamaideh, MD 1/2017–12/2017
(School of Medicine, University of Jordan, Jordan)

Other Research Trainees

Undergraduate Research Assistants

Adrian Bermudez	(2018–2019)	Diana L Rivero	(2014–2017)
Madeline Reiche	(2018–2019)	Katherine G McCoy	(2014–2015)
Parker Landis	(2017–2019)	Connor R McClellan	(2014–2015)
Victoria Tori	(2017–2018)	Lindsey R. Buchanan	(2014–2015)
Amber DeSantis	(2016–2018)	Melinda M Douglas	(2013–2015)
Kelsey Walden	(2015–2016)		

Graduate Students Researchers

Lucas Besomi	(2018–2019)
Hongjin Li	(2018–2019)
Mohammad Alrawashdeh	(2014–2017)
Heba Khalil	(2015–2016)
Khalil Yousef	(2015–2016)
Nicholas Scangas	(2014–2015)
Justin Bala-Hampton	(2013–2014)

TEACHING

University of Pittsburgh (2013–2018)

Classroom Teaching

<i>Years</i>	<i>Course Number & Title</i>	<i># of Times Taught</i>	<i># of Students</i>	<i>Level</i>
2018	NUR 3287: Research Design and Methods [Core 3 – Methods and Analysis] (3 credits)	1	5–10	PhD
2018	NUR 0067: Nursing Research: An Introduction to Critical Appraisal and EBP (3 credits)	1	60–80	BSN
2017– 2018	NUR 0088: Introduction to Basic Statistics for Evidence Based Practice (3 credits)	2	80–100	BSN
2016	NUR/HRS/EPIDEM 2004: Advanced Pathophysiology Across the Life Span (4 credits)	1	80–100	DNP

Web-Based Teaching

<i>Years</i>	<i>Course Number & Title</i>	<i># of Times Taught</i>	<i># of Students</i>	<i>Level</i>
2015– 2017	NUR 2078: Clinical Diagnostics (3 credits)	2	3–8	DNP

Clinical Teaching

<i>Years</i>	<i>Course Number & Title</i>	<i># of Times Taught</i>	<i># of Students</i>	<i>Level</i>
2015– 2017	NUR 1134: Transition into Professional Nursing (8 hours/week)	3	3–10	BSN
2016– 2017	NUR 1121: Advanced Clinical Problem Solving (8 hours/week)	2	7–8	BSN

Laboratory Teaching

<i>Years</i>	<i>Course Number & Title</i>	<i># of Times Taught</i>	<i># of Students</i>	<i>Level</i>
2014– 2016	NUR 2031: Diagnostic Physical Exam (3 hours/week)	6	6–8	DNP
2014	NUR 0081: Foundations of Nursing Practice I (3 hours/week)	1	6–8	BSN

One-to-One Research Mentoring

<i>Course Number & Title</i>	<i>No. of credits</i>	<i>Level</i>	<i>No. of Students</i>	<i># of Times Taught</i>
NUR 3071: PhD Apprenticeship	1–2	Graduate	1	3
NUR: PhD Dissertation	2–3	Graduate	1	3
NUR 3060: Independent Study	2–3	Graduate	1	1
NUR 1061: Independent Study	3	UG	2	3

Guest Lecturer

<i>Course Number & Title</i>	<i>Times Taught</i>	<i>Level</i>	<i>Topic</i>
NUR 2004: Advanced Pathophysiology Across the Lifespan	5	DNP	Altered Cardiovascular Function
BIOENG 2151: Medical Product Development	2	M.S.	Clinical Mentor: Cardiology
BIOENG 2150: Medical Product Ideation	2	M.S.	Clinical Mentor: Cardiology
NUR 3030: Professional Development	2	PhD	Keys of Success for Junior Faculty
NUR 0082: Nursing Care of Adults with Acute and Chronic Problem	4	BSN	Cultural Sensitivity: Nursing Education & Healthcare in Jordan

Continuing Education

<i>Topic</i>	<i># of Times Offered</i>	<i>No. of attendees</i>	<i>Level</i>	<i>Contact Hours</i>
A Guide for Basic 12-Lead EKG Interpretation	4	20–50	RN(s), NP(s)	10
Coronary Artery Diseases: An Up-to-Date Review	2	8–10	RN(s), NP(s)	3

PROFESSIONAL SERVICE

➤ International Society for Computerized Electrocardiology (ISCE):

2010–Present	Member
2013	Judge, Young Investigator Competition
2014	Judge, Best Poster Award
2014–2016	Working Group: “Finding ECG Readers in Clinical Practice” (letter to the editor published at <i>J Am Coll. Cardiology</i> , 10.1016/j.jacc.2014.01.086)
2015–2018	Poster Chair (3-year term)
2018–Present	Publication Chair (3-year term)
2018–Present	Executive Editor, <i>Journal of Electrocardiology</i> (Official Journal of ISCE)

- American Heart Association (AHA), Council on Cardiovascular and Stroke Nursing (CVSN)
 - 2012–2016 Member
 - 2016–Present Premium Professional Member
 - 2016–2018 Elected Member, Early Career Committee (2-year term)
 - 2016–Present Scientific Sessions’ Abstract Reviewer
 - 2017–Present AHA Fellow
 - 2017–2018 Award Reviewer, Katharine A. Lembright Award
 - 2018–2020 Elected Member, Early Career Committee (2-year term, renewal)
 - 2018–2020 Elected Member, Research Mentoring Committee (2-year term)
 - 2018–2019 Award Reviewer, Student Scholarships in Cardiovascular Disease
 - 2018–2019 AHA Statement Writing Group: “Placing the Risks into Perspective: An Update on Exercise and Acute Cardiovascular Events” (to be published in *Circulation* on February 2019).

- American Association of Critical Care Nurses (AACN):
 - 2010–Present Editorial Column: “ECG Puzzler” (A regular feature of *Am J of Critical Care*)

- Sigma Theta Tau International (STTI) & Biennial Convention:
 - 2010–2016 Abstract Reviewer

- Council for the Advancement of Nursing Science (CANS):
 - 2014 Discussion Moderator, Session: Technology II (Washington DC)
 - 2014–2016 Abstract Reviewer

- Canadian Cardiovascular Congress (CCC)
 - 2015 Discussion Moderator, Session: Nursing Education (Toronto, Canada)

- Eastern Nursing Research Society (ENRS)
 - 2016 Abstract Reviewer

- Ad-hoc Reviewer at Peer-Reviewed Scientific Journals
 - Journal of Electrocardiology*
 - American Journal of Critical Care*
 - Journal of Cardiovascular Nursing*
 - Heart & Lung: Journal of Acute and Critical Care*
 - EUROPACE*
 - Critical Care*
 - Public Library of Science (PLoS One)*
 - Circulation: Cardiovascular Quality and Outcomes*
 - Medical and Biological Engineering and Computing*
 - Prehospital Emergency Care*

Service at University of Pittsburgh (2013–2018)

➤ University-Wide Committees

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| 2016 | Patent Reviewer, Office of Technology Management (OTM) |
| 2017 | Grant Reviewer, Clinical and Translational Science Institute (CTSI)
Biomedical Modeling Pilot Awards (1UL1TROO1857) |
| 2018–2021 | Member, Senate Plant Utilization and Planning Committee (3-year term) |

➤ Office of Community Partnership:

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| 2015 | Health Fair Coordinator, Hosted at the Universal Academy of Pittsburgh in Swissvale PA, and co-sponsored by UPMC Health Plan and Walgreens |
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➤ School of Nursing Committees:

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| 2013–2015 | Member, Academic Integrity Committee |
| 2014–2015 | Member, Evaluation & Steering Committee |
| 2015 | Award Reviewer, Cameos of Caring Award |
| 2015–2017 | Chair, Evaluation & Steering Committee (2-year term) |
| 2015–2017 | Member, School-Wide Curriculum Committee |
| 2015–2017 | Member, Planning & Budget Committee |
| 2017 | Grant Reviewer, Leslie Hoffman Research Award |
| 2016–2018 | Member, Admission, Progression, & Graduation Committee (2-year term) |