

CURRICULUM VITAE

Michael Callihan, PhD, RN, CEN, NRP, FAEN Associate Professor

Office

University of North Carolina at Greensboro
School of Nursing
Room 262
1007 Walker Ave
Greensboro, NC 27403

Home

1412 Wrenwood Ct
Greensboro, NC 27455
Email: mikecallihan@gmail.com
Cell: (334) 294-9252

EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Major</u>	<u>Institution</u>
2022-ongoing	MsPH	Industrial Hygiene	University of Alabama at Birmingham
2015-2018	PhD	Nursing	University of Kentucky
2012-2014	MSN	Nursing Education	Gonzaga University
2008-2012	BSN	Nursing	Miami University (Ohio)
2005-2008	ADN	Nursing	Miami University (Ohio)

LICENSURES AND CERTIFICATIONS

<u>Year</u>	<u>License/ Certification</u>	<u>Issuing Body</u>
2023	MSL-RN	North Carolina Board of Nursing
2020	NRP- Paramedic	National Registry of EMS
2020	Certified Emergency Nurse	Board of Certifications of Emergency Nurses

PROFESSIONAL WORK EXPERIENCE (Employment History):

<u>Years</u>	<u>Title/Rank</u>	<u>Institution</u>	<u>Functional Area</u>
2024-	Associate Editor	The Journal of Emergency Nursing	
2023-	Associate Professor Tenure	UNC at Greensboro School of Nursing	Adult Health Nursing

2023-	Staff Nurse	MedCenter Greensboro at Drawbridge	Emergency Department
2018-2023	Assistant Professor	University of Alabama Capstone College of Nursing	Undergraduate Education
2022-2023	Paramedic	Regional Paramedic Services	Emergency Response
2019-2021	Staff Nurse	DCH Regional Medical Center Tuscaloosa, AL	Emergency Department
2017-2020	Staff Nurse	East Alabama Medical Center Opelika, AL	Emergency Department
2010-2020	RN/ EMT-P	Arnold Sports Festival Columbus, OH	Medical Team (Volunteer)
2012-2018	Paramedic	Harlan Twp. Fire and Rescue Pleasant Plain, OH	EMS in local community
2017-2018	Assistant Clinical Professor	Auburn University School of Nursing	Undergraduate Education. Simulation Coordinator
2016-2017	Staff Nurse	University of Kentucky MC Lexington, KY	Emergency Department
2014-2016	Assistant Professor	Miami University Middletown, OH	Medical Surgical Nursing
2013-2014	Clinical Coordinator, Department Chair	Beckfield College Springdale, OH	Nursing Department instruction and clinical coordination, Personal training chair and instruction
2012-2013	Charge Nurse	Bethesda Medical Center Lebanon, OH	Emergency Department
2007-2012	Staff Nurse, EMS Clinical Manager	Miami Valley Hospital Dayton, OH	Emergency Department, EMS manager
2000-2008	Firefighter/ Paramedic	City of Hamilton Hamilton, OH	Fire and EMS
1995-1999	Machinist Mate 2 Submarine Qualified	US Navy San Diego, CA	Engineering Department of Submarine

SCHOLARSHIP

RESEARCH GRANTS completed or in progress (funded):

Callihan, M (Principal), “Safer Lifting Strategies for Emergency Nurses,” ENA Foundation, Research Grant (Major), \$24,757 (January 1, 2024- December 31, 2024)

Callihan, M. (Principal), Cole, H. (Co-Principal), “The effect of a cooling vest on core temperatures among helicopter emergency medical crews,” University of Alabama, 2023 Office for Research & Economic Development Small Grants Program, \$6,000, (January 1, 2023-December 31, 2023)

Callihan, M.L. (PI), Eyer, J.C. (Co-PI), Rice, M. (Co-PI), Stokley, H. (Co-PI), Tice, J.R. (Co-PI), and Cole, H. (Co-PI), “Understanding the Effects of Secondary Traumatic Stress of Emergency Nurses and the associated patient outcomes,” Deep South Center for Occupational Health and Safety: Pilot Study, College, \$13,172, (June 1, 2020-June 31, 2021).

Kaylor, S.K. (PI) and **Callihan, M.L.** (Co-I), “Engaging Undergraduate Students in Rural Health Nursing and Research.” University of Alabama CCN Summer seed funding, \$15,000 (May 2019-August 2019)

Callihan, M. L. (Co-PI) and Kaylor, S. K. (Co-PI), "The Development of best practice for the lifting of a patient from the floor secured to a rigid spine board, direct patient lift from the floor, and the horizontal transfer of a patient.," Central Appalachian Regional Education and Research Center: Pilot study, College, \$11,551.00. (January 1, 2019 – June 30, 2019).

Callihan, M. L. (PI) and Lennie, T. (Supporting), "Getting to the core of back injury prevention in nurses," AAOHN Foundation, Foundation/Nonprofit, \$3,000.00. (January 2017 - January 2018)

Callihan, M.L. (PI) (2015-2018). *The Potential Role of Weightlifting Training on the Biomechanics of Patient Movements in the Prevention of Back Injury.* [Dissertation], Central Appalachian Region Education and Research Center. Tuition waiver

RESEARCH completed or in progress (without funding):

Callihan, M.L. (Co-PI) and Kaylor, S.K. (2018-2019). *Understanding the Effect of Group Fitness on Wellness during the Holiday Season.*

Jeong, S. (PI) and **Callihan, M.L.** (Co-PI). (2020-2021) *Gait pattern and movement classification using a resistive pressure sensor shoe insole and inertial measurement units (IMUs).*

Callihan, M.L. (PI) and Kaylor, S.K. (Co-PI) (2019-2021) *Establishing a link between gait and squat abnormalities and low back pain.*

Callihan, M.L. (PI) and Kaylor, S.K. (Co-PI) (2019-2020) *Gender specific learned vs taught movement patterns effecting body mechanics*

Callihan, M.L. (PI) and Kaylor, S.K. (Co-PI) (2019-2020) Evaluating the emotional effect of disease specific group exercise activities

GRANTS SUBMITTED (not funded; not implemented):

Callihan, M (Principal), McCoy, T. (Co-I), Letvak, S. (Co-I), “Musculoskeletal Health among In-home Caregivers of Victims of Violence,” National Institute for Nursing Research- NIH, Federal, \$397,250 (Not Funded)

Callihan, M. (Principal), Cole, H. (Co-I), Barrow, M. (Co-I), Glass, K. (Co-I), "Identification of factors contributing to caregiver musculoskeletal injury risks," National Institute for Aging, \$429,342 (Not Funded)

Jeong, N. (Principal), **Callihan, M.** (Co-PI), Parton, J. (Co-I), Glass, K. (Co-I), Hu, Q. (Co-I), "Fall Risk detection in the community dweller older adult using a plantar pressure shoe system" National Institute of Health, \$3,339,919 (Not Funded)

Callihan, M. (Principal), Cole, H. (Co-Principal), and Barrow, M. (Co-Principal), "Developing Evidence-Based Teaching for Safe Patient Handling," National League for Nursing, \$27, 390 (Not Funded)

Jeong, N. (Principal), **Callihan, M.** (Co-Principal), "Improving independence of older adults," University of Alabama at Birmingham - UAB, Federal, \$99,636.00. (not funded)

Callihan, M. (Principal), Cole, H. (Co-Principal), Eyer, J. (Co-Principal), Winchester, L. (Co-Principal), Newman, S. (Co-Principal), "Understanding the impact of heat on the wellbeing of firefighters," Centers for Disease Control and Prevention - CDC, Federal, \$397,183.00. (not funded)

Martelli, D. (PI), ...**Callihan, M.L.** (Co-PI), "MRI: Acquisition of the GRAIL Platform to Equip the Innovation in Motion and Balance Lab, a Multidisciplinary Research Facility at the University of Alabama," National Science Foundation, Federal, \$597,638.00 (not funded).

Callihan, M. (Principal), Rasbury, M. (Co-Principal), "Building Environmental Scientists within the Black Belt Region," CHOICE Inc., Federal, \$39,548.00. (not funded)

Callihan, M. (Principal), Elswick, D. (Co-Principal), Rasbury, M. (Co-Principal), "Foundations for the Development of an infectious disease plan to protect our first responders," Occupational Safety and Health Administration - OSHA, Federal, \$195,477.00. (not funded)

Callihan, M.L. (PI), Kaylor, S.K. (Co-I), Eyer, J. C. (Co-I), and Sazonov, E. (Co-I), "Testing the efficacy of the Alabama Safe Handling and APplied Efficiency (SHAPE) training program in the emergency medical service," Center for Disease Control, R21, \$273, 523 (Not Funded)

Callihan, M. L. (Co-PI), Kaylor, S. K. (Co-PI), Hibberd, E. E. (Key/Senior Personnel), Esco, M. R. (Key/Senior Personnel), "Development of a Culture of Safety for Patients and Care Providers Through Implementation of Simulation-Based Lifting and Movement Task Training," Agency for Healthcare Research and Quality, Federal, \$1,995,524.00. (May 1, 2019 - April 30, 2024). Not Funded

Patrician, P. (PI), et. al. & **Callihan, M. (Co-I)**. The Deep South Patient Safety Learning Laboratory to Address the Cluster of Harm Associated with Patient Deconditioning. AHRQ R18:, \$3,749,996. Not funded.

Kaylor, S. K. (PI), **Callihan, M. L.** (Co-I), "Health Behaviors of Generation Z College Students: An Ethnographic Approach," Southern Nursing Research Society, Foundation/Nonprofit, \$7,472.94. Not Funded

Kaylor, S. K. (Co-PI), **Callihan, M. L.** (Co-PI), Esco, M. R. (Key/Senior Personnel), Hibberd, E. E. (Key/Senior Personnel), "The Impact of Fitness Programming on Employee Health, Safety, and Wellness: A Feasibility Pilot Project," Alabama Life Research Institute, The University of Alabama, \$25,000.00. Not Funded

Hardin-Fanning, F. (PI), Callihan, M. (Co-PI), Carter, M., (Co-I), Welch, T., (Co-I), Cheshire, M. (Co-I), & Strickland, H. (Co-I). *VetTide to BSN Option*. Health Resources & Services Administration Nurse Education, Practice, Quality and Retention (NEPQR) – Veteran Nurses in Primary Care (VNPC) Training Program HRSA-19-092. \$1,500,000, *Submitted* March 8, 2019. Not funded

PUBLICATIONS:

- INVITED publications
 - Kaylor, S. K., **Callihan, M. L.**, Townsend, H. F. (2022). Choosing Community: Bringing Health & Wellness Initiatives to One Rural Alabama Community. Capsule Magazine, Fall 2022 Capsule Magazine, 10-11.
- Refereed Journal Articles (published or in press):
 - Townsend, H., Hobbs, J., Kaylor, S., Cody, S., **Callihan, M.** (2024). Point-of-Care STI Testing in Rural Settings: A Feasibility Project. *Public Health Nursing*. <http://doi.org/10.1111/phn.13361>
 - **Callihan, M.**, Cole, H., Callihan, A., Penn, E., Peek, L., Barrow, M., Lungu, C., Odame, E. A., Oh, J., Stokley, H., Wickliffe, J., Winchester, L. (in press). Reliability of wearable technology to monitor core temperature among Helicopter-based EMS crews. *Workplace Health & Safety*.
 - **Callihan, M. L.**, Wolf, L. (2024). Understanding Research: Translation of research to practice. *Journal of Emergency Nursing* 50 (4), 499-502. <https://doi.org/10.1016/j.jen.2024.04.001>
 - **Callihan, M. L.**, McCoy, T. P., Reed, C., Morley, C., Law, E., Phillips, T. (2024). Save your back: Comparison of the compressive force on the lower back based on differences in the training techniques. *Journal of Emergency Nursing*. <https://doi.org/10.1016/j.jen.2023.12.009>
 - Wolf, L., Noblewolf, H. S., **Callihan, M. L.**, Moon, M. D. (2023). What if It Were Me? A Qualitative Exploratory Study of Emergency Nurses' Clinical Decision Making Related to Obstetrical Emergencies in the Context of a Post-Roe Environment. *Journal of Emergency Nursing*, 49(5), 714-723. https://api.elsevier.com/content/abstract/scopus_id/85165355363
 - **Callihan, M. L.**, *Somers, B., *Dinesh, D., *Aldred, L., *Clamp, K., *Treglown, A., *Custred, C., *Porteous, K., *Szukala, E. (2023). Proof of Concept Testing of Safe Patient Handling Intervention Using Wearable Sensor technology. *Sensors*, 23 Sensors (23), 5769. <https://doi.org/10.3390/s23125769>
 - **Callihan, M. L.**, Cole, H. S., Stokley, H. A., Gunter, J. A., *Clamp, K., *Martin, A., *Doherty, H. (2023). Comparison of Slate Safety wearable device to ingestible pill and wearable heart rate monitor. *Sensors*, 23 Sensors (2), 877. <https://doi.org/10.3390/s23020877>
 - *Choffin, Z., Jeong, N. S., **Callihan, M. L.**, Sazonov, E. (2022). Lower Body Prediction Using Machine Learning and Inverse Dynamics. *Sensors*, 23 Sensors (228). <https://doi.org/10.3390/s23010228>
 - **Callihan, M. L.**, Wolf, L., Cole, H., Robinson, S., Stokley, H., Rice, M., Eyer, J. C., Tice, J., Mohabbat, S., & Rogers, S. (2023). Determining Clinical Judgment Among Emergency Nurses During a Complex Simulation. *J Emerg Nurs*, 49(2), 222-235. <https://doi.org/10.1016/j.jen.2022.11.010>
 - Wolf, L., Delao, A., Perhats, C., Valdez, A., Strout, T., Clark, P., Moon, M., Frisch, S., **Callihan, M. L.** (2022). The experiences of US emergency nurses related to witnessed and experienced bias: a mixed methods study. *The Journal of Emergency Nursing The Journal of Emergency Nursing*. <https://doi.org/10.1016/j.jen.2022.11.008>

- **Callihan, M. L.**, Mizerek, E., Wolf, L. (2022). Understanding Research: The Importance of Research Mentors. *Journal of Emergency Nursing*, 48 Journal of Emergency Nursing (6), 642-643. <https://doi.org/10.1016/j.jen.2022.08.004>
- **Callihan, M. L.**, Gibson, K. B., Smith, S. T., *Bolton, K., Kaylor, S. K., Horton, A. G., Cain, D. S., Pfitzinger, M. E. (2022). The Use of High-Fidelity Simulation to Promote Authentic Learning in Undergraduate Social Work Students. *Best Practices in Mental Health*, 18 Best Practices in Mental Health (1, Fall 2022), 62-70.
- Kaylor, S. K., *Allen, I., *Rodgers, J., **Callihan, M. L.**, Townsend, H. F. (2022). "Black Out or Back Out": Understanding the Alcohol Habits, Behaviors, and Motivations of Generation Z Students. *Journal of American College Health* Journal of American College Health. <https://doi.org/10.1080/07448481.2022.2129975>
- Wolfe, L., Perhats, C., Delao, A., Burchill, C., Clark, P., **Callihan, M. L.**, Edwards, C., Frisch, S., Moon, M., Strout, T. (2022). Role and Training of Emergency Department Charge Nurses: A mixed methods analysis of processes, needs, and expectations. *Journal of Emergency Nursing* Journal of Emergency Nursing. <https://doi.org/10.1016/j.jen.2022.03.009>
- *Anderson, W., *Choffin, Z., Jeong, N. S., **Callihan, M. L.**, Jeong, S., Sazonov, E. (2022). Empirical Study on Human Movement Classification Using Insole Footwear Sensor System and Machine Learning. *Sensors*, 22 Sensors (7), 2743. <https://doi.org/10.3390/s22072743>
- Kaylor, S. K., *Allen, I., *Crim, A. D., **Callihan, M. L.** (2022). Calories and Control: Eating Habits, Behaviors, and Motivations of Generation Z Females. *Journal of American College Health* Journal of American College Health. 10.1080/07448481.2021.1978465
- **Callihan, M. L.**, *Leonard, M. (2021). Training the Industrial Athlete: Targeted Fitness programming to reduce injury risk in workers. *The Journal of Orthopaedic and Sports Medicine*, 3 The Journal of Orthopaedic and Sports Medicine (4), 152-161. 10.26502/josm.511500051
- *Choffin, Z., Jeong, N., **Callihan, M.**, *Olmstead, S., Sazonov, E., *Thakral, S., *Getchell, C., *Lombardi, V. (2021). Ankle Angle Prediction Using a Footwear Pressure Sensor and a Machine Learning Technique. *Sensors*, 21 Sensors (11), 3790. 2620 Huntington St <https://doi.org/10.3390/s21113790>
- **Callihan, M. L.**, Kaylor, S. K. (2021). Proning Pains: Recognizing the Red Flags of Body Mechanics for Healthcare Workers Involved in Prone Positioning Techniques. *Journal of Emergency Nursing*, 47 Journal of Emergency Nursing (2), 211-213. <https://doi.org/10.1016/j.jen.2021.01.001>
- **Callihan, M. L.**, Eyer, J. C., *McCoy, C. J., *Anna, D. M., *Diket, K. M., *Robinson, A. T., Kaylor, S. K. (2020). Development and Feasibility of a Contextual Patient Movement Intervention. *Journal of Emergency Nursing* Journal of Emergency Nursing. [https://www.jenonline.org/article/S0099-1767\(20\)30167-7/fulltext](https://www.jenonline.org/article/S0099-1767(20)30167-7/fulltext) <https://doi.org/10.1016/j.jen.2020.05.018>

- Rode, J. L., **Callihan, M. L.**, Barnes, B. L. (2016). Assessing the Value of Large-Group Simulation in the Classroom. *Clinical Simulation in Nursing*, 12 Clinical Simulation in Nursing (7), 251-259. https://api.elsevier.com/content/abstract/scopus_id/84963621295
10.1016/j.ecns.2016.02.012

PRESENTATIONS:

○ INVITED Presentations

- **Callihan, M. L.**, University of Kentucky Nursing Research Paper Day, "Workplace Wellness: More than just checking a box," University of Kentucky Medical Center (Academic), Campbell House, Lexington, KY, United States of America. Invited. (November 10, 2023).
- **Callihan, M. L.**, Alabama ENA Educational Conference, "I'm ER'er than you: Surviving the Emergency Environment," Alabama ENA, Wallace State Community College, Hanceville, AL, United States. (April 27, 2023).
- **Callihan, M. L.**, OSA- Engaging in Scholarship, "Can I do research? The need for clinically based research," CCN Office of scholarly affairs, Capstone College of Nursing, Tuscaloosa, AL, United States. (October 17, 2022).
- **Callihan, M. L.**, Tuscaloosa Chapter of the American Assembly of Men in Nursing monthly meeting, "If these scrubs could talk: We are very much the same," Tuscaloosa Chapter of the American Assembly of Men in Nursing, Capstone College of Nursing, Tuscaloosa, AL, United States. (October 10, 2022).
- **Callihan, M. L.** (Solo Presenter), A DCH Professional Development Program, "Disaster Strikes: Are you ready?," DCH Regional Medical Center, DCH regional Medical center, Tuscaloosa, AL. (May 4, 2022).
- Adams, A., Clark, P., **Callihan, M.**, Johnson, K., Weinman, S., and White, J. (September 2021) EN21 "Make a Greater Impact on Emergency Nursing: Learn How to Publish Your Project in the Journal of Emergency Nursing; Author Panel." Emergency Nurses Association, Orlando, FL, United States
- Callihan, M. (July 2021) "Community Engagement News Conference." JCM 303 News Conference, University of Alabama Department of Journalism, Tuscaloosa, AL, United States
- **Callihan, M. L.**, McCoy, C. J., Dailey, A., Diket, K., Kaylor, S.K. (February 2020), 3rd annual Southeast Regional Research Symposium: An occupational safety and health conference, "Determining the efficacy of a contextual lifting training on back injury risk reduction." Southeast Regional Research group, Birmingham, AL, United States
- **Callihan, M.**, Hudson, S., & Christie, C. (November 2020) "Building a Disaster Response Team in the Hospital Environment." Disaster response committee, DCH regional Medical Center, Tuscaloosa, AL, United States
- **Callihan, M. L.** (December 2018). CCN Lunch and Learn, "If these scrubs could talk...they'd sound a lot like yours." Committee on Inclusivity, CCN, TUSCALOOSA, United States.

- **Callihan, M.**, Capehart, S., Ransom, A., & Worcester, K. (March 2017) *Pelvic Tilt: Lifting a patient from the floor to a standing height*. Podium discussion presented at Deep South ERC Research Symposium
- Podcasts/ Media Appearance:
 - **Internet**
 - "Biomechanics and Occupational Injury Prevention," Nurse Executive Podcast. (August 31, 2023). <https://www.thinkbrg.com/insights/multimedia/nepodcast/>
 - Capstone SimCast: Dr. Mike Callihan, Capstone SimCast, April 11, 2022 open.spotify.com/episode/1LFkidAWbvilzezd28nH7d?si=gl_CaKZuTI22ZHQGdpTizA
 - Monica Mercurio and Carsen Lamont with Dr. Callihan, Project Research, September 8, 2021 podcasts.apple.com/us/podcast/project-research/id1550150428
 - **TV**
 - Community Health Fair held in West Tuscaloosa over Weekend, WVUA23, August 23, 2021 wvua23.com/community-health-fair-held-in-west-tuscaloosa-over-weekend/
 - **Journal feature articles**
 - "Backing Safety: New Foundation-supported study to offer ED Nurses Safer Lifting Strategies," ENA Connection. (March 2024).
 - "Member Spotlight: The Last Word with Mike Callihan," ENA Connection. (November 2023).
- Refereed Paper/Podium Presentations:

National

- Kaylor, S.K., Deeter, D., Townsend, H., Butler, E., & **Callihan, M.** (2022, September 21). Engaged scholarship: Building commUNITY one step at a time. Engagement Scholarship Consortium 2022. Hosted by University of Georgia, Athens, GA.
- Kaylor, S. K., **Callihan, M. L.**, Conway, A., Butler, E., Haley, J., Creating Healthy work Environments 2022, "Sustaining Healthy Environments through an Annual Running Event," Sigma Theta Tau, Washington, DC, United States. (March 2022)
- Aldridge, M., Townsend, H., Kaylor, S., & **Callihan, M.**, Creating Healthy Work Environments 2022, "Increasing Lower Division Nursing Student Engagement in Professional Socialization," Sigma Theta Tau, Washington, DC, United States. (March 2022)
- Kaylor, S. K., **Callihan, M. L.**, Townsend, H. F., Butler, E., Creating Healthy work Environments 2022, "Community Engagement: A Vehicle for Promoting Healthy Living, Learning, and Work Environments," Sigma Theta Tau, Washington, DC, United States. (March 2022).
- **Callihan, M. L.**, Cole, H. S., Stokley, H. A., Rice, M. N., Tice, J. R., Eyer, J.C., Robinson, S. M., Wolf, L., Mohabbat, S., and Rogers, S. (March 2022), 5th annual Southeast Regional Research Symposium: An occupational safety and health conference, "Measuring the Impact of Secondary

Stressors on Patient Outcomes through simulation activities.” Southeast Regional Research group, Birmingham, AL, United States

- *Kaylor, S. K., *Rodgers, J., **Callihan, M. L.**, The Nursing Education Research Conference, "Health Behaviors of Generation Z Students in Black Sororities and Fraternities," Sigma Theta Tau/National League for Nursing, Washington, DC, United States. (March 28, 2020).
- **Callihan, M. L.**, Kaylor, S. K., *McCoy, C., *Dailey, A., *Diket, K., Nursing Education Research Conference 2020, "Testing the Learnability of a Lifting Intervention to Aid in Patient Transfer Using Motion Capture," Sigma Theta Tau International, Washington, DC, United States. (March 27, 2020).
- **Callihan, M.L.**, Kaylor, S.K., *McCoy, C. (March 2019). Creating Healthy Work Environments, "Creating a Safe Environment for Providers During Horizontal Patient Transfer." Sigma Theta Tau International, New Orleans, LA, United States (refereed)
- Watts, S., **Callihan, M.L.** (March 2019). Creating Healthy Work Environments, "Optimizing Patient Outcomes Through Intrerprofessional Disaster Training." Sigma Theta Tau International, New Orleans, LA, United States (refereed)
- **Callihan, M. L.**, *Capehart, S., *Ransom, A., *Worcester, K. (April 2018). Sour to New heights- Advancing a Culture of Worker Health, "Saving Our Backs: Does Exercise Play a Role?," American Association of Occupational Health Nurses, Reno, NV, United States. (Refereed)
- ***Callihan, M. L.**, *Capehart, S., *Ransom, A., *Worcester, K. (April 2017). History, Passion, Performance: Together Towards Tomorrow, "When Lifting Hurts: Biomechanics of Emergent Lifts," American Association of Occupational Health Nurses, New Orleans, LA, United States. (Refereed)
- ***Callihan, M. L.**, *Capehart, S., *Ransom, A. (September 2016). Emergency Nursing 2016, "The Core of Back Injury," Emergency Nurses Association, Los Angeles, CA, United States. (Refereed)
- ***Callihan, M. L.**, Leading the Future: Endless Possibilities in Occupational and Environmental Health Nursing, "Getting to the Core of Back Injury Prevention in Nurses," American Association of Occupational Health Nurses, Jacksonville, FL, United States. (April 2016). (Refereed)

State

- **Callihan, M. L.**, Alabama ENA Education Conference, "Emergency Care for the Older Adult Patient," Alabama Emergency Nurses Association (Non-Academic), St. Vincent Hospital Conference Center, Birmingham, AL, United States of America. Accepted. (April 12, 2024).
- **Callihan, M. L.**, Savage, J., Bonebrake, J., Jones, J., Reid, K., Jeffers, P., Johnson, A., Mendelson, A., Dougherty, M., Khan, Z., New Jersey Emergency Care Conference, "No Time for That! Wellness Strategies for the ER Nurse," NJ Emergency Nurses Association (Non-Academic), Tropicana, Atlantic City, NJ, United States of America. Accepted. (March 14, 2024).

Local

- **Callihan, M.** (May 2022, August 2022) When Disaster Strikes: Are you Ready? Seminar, DCH regional Medical Center, Tuscaloosa, AL, United States

- **Callihan, M. L.** (Solo Presenter), Future of the Profession, "Total Worker Health: Life Beyond the Jobsite," American Industrial Hygiene Association, AGC, Inrondale, AL, United States. (March 11, 2022).
- **Callihan, M.L.,** Mohabbat, S., Rogers, S. (October 2021) The Impact of Secondary Stressors on Patient Outcomes. Podium discussion presented at Research Colloquia Series, Capstone College of Nursing, The University of Alabama. Tuscaloosa, AL
- Kaylor, S. K., *Allen, I., Crim, A. D., **Callihan, M.,** Spring 2021 Research Colloquia series, "Eating Habits, Behaviors, and Motivations of Generation Z Females," Capstone College of Nursing Office of Scholarly Affairs, Virtual, Tuscaloosa, AL. (April 22, 2021).
- Butler, E., Dudley, E., Kaylor, S. K., **Callihan, M.,** The University of Alabama Council on Community-Based Partnerships Academic Conference, "Two Miles on Twelve," The University of Alabama Council on Community-Based Partnerships Academic, Virtual, Tuscaloosa, AL, United States. (April 20, 2021).
- Kaylor, S.K., **Callihan, M.L.,** McCoy, C., Rodgers, J. (December 2019) *Engaging Undergraduate Students in Rural Health Nursing and Research.* Podium discussion presented at Research Colloquia Series, Capstone College of Nursing, The University of Alabama. Tuscaloosa, AL
- **Callihan, M. L.** Capehart, S., Ransom, A., & Worcester, K. (February 2017) *When Lifting Hurts: The Biomechanics of Patient Lifting.* Podium discussion presented at the Lincoln County EMS Rural Healthcare Training Weekend in Danville, KY.
- **Callihan, M.L.** (August 2016) *Who Takes Care of Us?* Podium presentation at the 2016 Kentucky Emergency Nurses Association Education Conference. Louisville, KY
- **Callihan, M.L.** (August 2016) *Five things every ER nurse should know about Hemodynamics.* Podium presentation at the 2016 Kentucky Emergency Nurses Association Education Conference. Louisville, KY
- **Callihan, M.L.** (September 2015) *Getting to the Core of Back Injury.* Podium presentation at Ohio Association of Occupational Health Nurses bimonthly meeting. Middletown, OH
- Refereed Poster Presentations:
 - Cole, H. & **Callihan, M.** (March 2023). Developing Large-Group Simulation for Didactic Content. Poster (Nursing Education Research Conference). Washington, D.C.
 - **Callihan, M. L.,** *Cole, H. S. (Co-Presenter), ALN Annual conference, "Developing a Large Group Simulation," Alabama League for Nursing, Marriott in Birmingham, AL, Birmingham, AL. (April 1, 2022).
 - Payne-Foster, P., Lockhart, J., McClure, S., Ross, L., Oths, K., Pruitt, S., Townsend, H., Kaylor, S.K., **Callihan, M.,** Lichtenstien, B., Radcliffe, O., Adams, S. (2022, April 14-15). *Development of an Innovative Partnership to Increase Employer-Based COVID-19 Vaccination in West Alabama.* The 21st Annual Rural Health Conference, hosted by the Institute for Rural Health Research. The University of Alabama, Tuscaloosa, Alabama.

- Kaylor, S.K., Townsend, H.F., **Callihan, M.**, Aldridge, M.*, Deeter, D.*, Conway, A.*, Mobarak, M.* & Butler, E. (2022, April 1). *Involving Students in Community Engagement: A Vehicle for Promoting Healthy Living and Learning Environments*. The Alabama League for Nursing 2022 Annual Conference. Birmingham, Alabama.
- **Callihan, M. L.**, *Mohabbat, S., Jeong, S., *Choffin, Z., Gunter, J. A., AAOHN 2022 National Conference, "Fixing knee and back injury: Correcting common biomechanical flaws in common worker movements," AAOHN, Pittsburgh, PA, United States. (March 2022).
- McCoy, C., *Furr, M., Kaylor, S. K., **Callihan, M. L.**, Nursing Education Research Conference, "Risk Behaviors of Generation Z: Electronic Cigarette Use in Males," Sigma Theta Tau/National League for Nursing, Washington, DC, United States. (March 27, 2020).
- **Callihan, M. L.**, *Capehart, S., *Ransom, A., *Worcester, K., Lennie, T., Salt, E., Bazrgari, B., Warshawsky, N. (February 2017). Grounded in Research: Academic and Clinical Partnerships Transforming Health, "As The Pelvis tilts: Identifying Biomechanical Risk Factors for Back Injury," Southern Nurses Research Society, Dallas, TX, United States.

Patent

- Jeong, S. H., **Callihan, M. L.**, Sazonov, E. (June 2021) Shoe-based Sensor System for Detecting Human Motions and Body Balance. US Patent Office (provisional No. 63/313,567)

TEACHING

PROFESSIONAL TEACHING EXPERIENCE:

<u>Years</u>	<u>Title/Rank</u>	<u>Institution</u>	<u>Functional Area/ Courses</u>
2024	Associate Professor	UNCG	Interprofessional Education Nursing Informatics/ Technology Nursing Leadership and Management Nursing Care Individual Acute Physical Problems Fundamental Concepts in Nursing Research and Evidence-Based Practice
2023	Associate Professor	UNCG	Older Adult populations Interprofessional Education Evidence Based Practice
2018-2023	Assistant Professor	The University of Alabama	Complex Client Medical Surgical Informatics R&D Innovative Healthcare Fundamentals of Nursing Health Assessment
2017-2018	Assistant Clinical Professor	Auburn University	Simulation/ High Acuity
2016	Guest lecturer	The University of Kentucky	High Acuity
2014-2016	Assistant Professor	Miami University of Ohio	Medical Surgical Informatics

COURSE DEVELOPMENT/ MAJOR COURSE REVISION:

- NUR 309: Nursing Informatics. Part of team to redevelop this online course
- NUS 785: Research and Development of Innovative Health Care Technology. Course development for new course in the PhD program.

SERVICE OUTREACH / ACADEMIC CITIZENSHIP

UNIVERSITY SERVICE:

2019-2023	Faculty Senate Member
2021-2023	Medical IRB, Faculty Senate Representative
2019-2020	Faculty Senate DEI committee
2019-2020	Non-medical IRB, Faculty Senate representative
2021-2023	Faculty Senate Research advisory committee

COLLEGE SERVICE:

2023	Promotion and Tenure Committee Committee of Inclusivity Member Graduate Education committee Lower Division Student Advising (30-40 students) Faculty Advisor local Men in Nursing Chapter
2022	Committee of Inclusivity Member Graduate Education committee Lower Division Student Advising (30-40 students) Faculty Advisor local Men in Nursing Chapter
2021	Committee of Inclusivity Member Graduate Education committee Lower Division Student Advising (30-40 students) Faculty Advisor local Men in Nursing Chapter
2020	Committee of Inclusivity Member Lower Division Student advising (30-40 students) Faculty Advisor local Men in Nursing Chapter
2019	Committee of Inclusivity Member Lower division Student advising (35-40 students) Faculty Advisor local Men in Nursing Chapter
2018	Caring Fund Committee Member Committee of Inclusivity Member Task Force to identify potential research space Member Lower Division Student Advising (35-40 students) Faculty Advisor local Men in Nursing Chapter

CERTIFICATIONS:

2022	Emergency Nursing Pediatric Care, Emergency Nurses Association
2021	Board Certified Emergency Nurse
2021	The Biomechanics Method Corrective Exercise Specialist
2020	National Registered Paramedic
2019	Rock Steady Boxing Coach, Rock Steady Boxing, Inc
2018	Clinical and Translational Science Research Skills Graduate Certificate
2013	Certified Personal trainer, American Council on Exercise
2009	Trauma Nursing Core Curriculum instructor/ course coordinator/ faculty, Emergency Nurses Association.
2003	Advanced Cardiac Life Support instructor, American Heart Association
2003	Pediatric Advanced Life Support instructor, American Heart Association
1995	Basic Life Support instructor, American Heart Association

HONORS AND AWARDS:

2023	Fellow in the Academy of Emergency Nursing (FAEN)
2023	Journal of Emergency Nursing Author of the year
2022	Scholar, Deep South Education and Research Center, Industrial Hygiene
2022	Alabama League for Nursing Excellence in Teaching Award
2021	Journal of Emergency Nursing Reviewer of the Year
2021	Outstanding Faculty/ Staff Initiated Engagement Effort
2015-2018	Scholar, Central Appalachian Region Education and Research Center, Occupational and Environmental Health Nursing

PROFESSIONAL SERVICE/MEMBERSHIPS:

2024-Present	Editor, Associate, Journal of Emergency Nursing, Schaumburg, IL.
2008-Present	Emergency Nurses Association
	2016-2017: Secretary for local ENA Chapter (Bluegrass ENA)
	2018: Item writer for TNCC
	2019-present: Reviewer for Journal of Emergency Nursing
	2021: Member Emergency Nursing Research Advisory Council
	2024-2026: Chair Emergency Nursing Research Advisory Council
	2022: Member Injury prevention committee- State Alabama
	2023: Member QSIP committee- State North Carolina
2015-Present	American Association of Occupational Health Nurses
2016-Present	Sigma Theta Tau
	2022: Secretary for local chapter
2017	Southern Nursing Research Society
2018-Present	National League for Nursing

OTHER PROFESSIONAL ACTIVITIES:

Manuscript Reviewer

2018-Current *IRIs Journal of Nursing Care*
 Journal of Applied Ergonomics
 Journal of Strength and Conditioning
 2019-Current *Journal of Emergency Nursing*
 2020-Current MDPI journals

MENTOR:

Name	Topic	Program	Role	Date of Completion
McCoy	Patient transfer	UG intern	Mentor	2019
Dailey	Patient transfer	UG intern	Mentor	2019
Diket	Patient transfer	UG intern	Mentor	2019
Devers	Home Health	UG intern	Mentor	2019
Apperson	Gait retraining	UG intern	Mentor	2020
Fischer	Gait retraining	UG intern	Mentor	2020
Prizgint	Gait retraining	UG intern	Mentor	2020
Barton	Gait retraining	UG intern	Mentor	2020
Chase	Gait retraining	UG intern	Mentor	2020
Kane	Gait retraining	UG intern	Mentor	2020
Davis	Gait retraining	UG intern	Mentor	2021
Leonard	Gait retraining	UG intern	Mentor	2021
Luppino	Gait retraining	UG intern	Mentor	2021
Dries	Gait retraining	UG intern	Mentor	2021
Lombadri	EE study	UG Intern	Mentor	2021
Thackral	EE study	UG Intern	Mentor	2021
Getchell	EE Study	UG Intern	Mentor	2021
Simpson	Transition from paramedic to RN	PhD student	Committee member	In progress
Jesperperson	Bias in Medical Care	UG intern	Mentor	2022
Johnson	Bias in Medical Care	UG intern	Mentor	2022
Reick	Bias in Medical Care	UG intern	Mentor	2022
Aldred	Proning a patient	UG Intern	Mentor	2022
Beck	Proning a patient	UG Intern	Mentor	2022
Joseph	Proning a patient	UG Intern	Mentor	2022
Olson	Proning a patient	UG Intern	Mentor	2022
Rogers	Proning a patient	UG Intern	Mentor	2022
Aldredge	Access to Healthcare in BlackBelt Region	UG Intern	Mentor	2022
Mohabbat	Access to Healthcare in BlackBelt Region	UG Intern	Mentor	2021
Winston	Access to Healthcare in BlackBelt Region	UG Intern	Mentor	2021
Strycher	PTSD Among ER Nurses	UG Intern	Mentor	2021
Graham	Tool development for determining risk of violence in the emergency department	PhD Student	Committee Chair	2023
Cole	Simulation competency	PhD Student	Committee member	2023
Choffin	Biomechanical predictions using pressure sensor system	PhD student (EE)	Committee Co-Chair	2024
Johnson	Skill competencies in nursing	EdD student	Reader	2024

Brittingham	Patient flow in the emergency department	DNP student	Advisor	2023
Rogien	Improving “time-out” compliance in the operating room	DNP student	Advisor	2023
Treglown	Running mechanics that influence injury	UG Intern	Mentor	2023
Dinesh	Proning a patient	UG Intern	Mentor	2023
Martin	The impact of heat stress on nursing skill	UG Intern	Mentor	2023
Somers	Proning a patient	UG Intern	Mentor	2023
Swift	Learned versus taught behaviors	UG Intern	Mentor	2023
Doherty	The impact of heat on nursing skills	UG Intern	Mentor	2023
Lewis	Learned versus taught behaviors	UG Intern	Mentor	2023
Isaacs	The lived experience of the male NS	UG Intern	Mentor	2023
Clamp	The impact of heat on nursing skills	UG Intern	Mentor	2023
Aldred	Proning a patient	UG Intern	Mentor	2023
Penn	Heat stress among flight nurses	UG Intern	Mentor	2024
Jeffers	Safer lifting in the ER	UG Intern	Mentor	Ongoing
Jones	Safer lifting in the ER	UG Intern	Mentor	2024
Bonebrake	Safer lifting in the ER	UG Intern	Mentor	2024
Reid	Safer lifting in the ER	UG Intern	Mentor	2024
Savage	Safer lifting in the ER	UG Intern	Mentor	2024
Johnson	Safer lifting in the ER	UG Intern	Mentor	Ongoing
Dougherty	Safer lifting in the ER	UG Intern	Mentor	Ongoing
Khan	Safer lifting in the ER	UG Intern	Mentor	Ongoing
Mendelson	Safer lifting in the ER	UG Intern	Mentor	Ongoing
Rutan	Implementation of research to the bedside	PhD Student	Advisor	ongoing

SPEECHES, WORKSHOPS OR PROGRAMS DEVELOPED:

Liebig, A., Derringer, J. Locke, G. and **Callihan, M.** (September, 2019). Emergency Nursing 2019, “Team Resuscitation and Nurse-Led ACLS: Building Your Program,” Emergency Nurses Association, Austin, TX, United States. (Refereed).

COMMUNITY SERVICE:

2023	CHOICE, Inc., Community Garden construction and maintenance Food Drive CHOICE, Inc. 3 community CPR courses taught
2022	CHOICE, Inc., Community Garden construction and maintenance Robert C. Hatch football program strength and conditioning program development
2021	CHOICE, Inc., Community Garden construction and management Construction of outdoor fitness park in Uniontown, AL

2020	<p>CHOICE, Inc., Community Back to School Drive</p> <p>Title Town Rock Steady Boxing, Develop and Implement boxing programing for Parkinson's patients in the community</p>
2019	<p>Perry County Hatch High School HOSA Community Health Fair – Coordinated UA College of Nursing Faculty Participation</p> <p>CHOICE, Inc., Community Back to School Drive</p> <p>Men In Nursing/ Project serve Health Fair at Greater Tuscaloosa YMCA coordination</p> <p>Title Town Rock Steady Boxing, Develop and Implement boxing programing for Parkinson's patients in the community</p>
2018	Community based group fitness classes at the YMCA- Coordinated and ran classes
2010-2017	Volunteer paramedic- Harlan Township Fire and Rescue
2012-present	<p>Sing in Southern gospel group that travels to local community churches</p> <p>Active in local church organization</p>