

January 2019

CURRICULUM VITAE

NAME: ADDIE MIDDLETON, PhD, DPT

PRESENT POSITION AND ADDRESS:

Assistant Professor
Division of Physical Therapy
College of Health Professions
Medical University of South Carolina
151-B Rutledge Avenue
Charleston, SC 29425

EDUCATION:

2016	Post-doc in Health Services Research	University of Texas Medical Branch Galveston, TX
2015	PhD in Exercise Science	University of South Carolina Columbia, SC
2007	Doctor of Physical Therapy	University of South Carolina Columbia, SC
2003	B.A. in Economics	University of North Carolina Chapel Hill, NC

PROFESSIONAL WORK HISTORY:

2016-2017	University of Texas Medical Branch Division of Rehabilitation Sciences Galveston, TX	Research Assistant Professor Claude D. Pepper Older Americans Independence Center Scholar
2015 - 2016	University of Texas Medical Branch Division of Rehabilitation Sciences Galveston, TX	Postdoctoral Fellow
2012 - 2015	University of South Carolina Rehabilitation Laboratory Columbia, SC	Graduate Research Assistant
2011 - 2012	Columbine Health Systems Fort Collins, CO	Physical Therapist
2009 - 2010	Coastal Therapy Services, Inc. Mt. Pleasant, SC	Physical Therapist

2008 - 2009	South Carolina School for the Deaf and the Blind Spartanburg, SC	Physical Therapist
2008 – 2008	Lake Norman Regional Medical Center Mooresville, NC	Physical Therapist

RESEARCH ACTIVITIES:

Area of Research

My current research focus is demonstrating and further improving the value of rehabilitative care. Specific topics of interest include identifying targets for care improvement, improving the translation of knowledge to practice, and evaluating quality of care through patient-centered outcomes.

Current Grant Support

Source	The Center of Excellence in Physical Therapy Health Services/Health Policy Research and Training (CoHSTAR)	
Title	CoHSTAR Research Training Career Program	
Role	Faculty Fellow (PI: Linda Resnik)	
Date	2017-2019	
Source	(U54GM10494) Institutional Development Award (IDeA), National Institute of General Medical Sciences, National Institutes of Health	
Title	Delaware CTR- ACCEL Program	
Role	CTR Scholar (PI: Stuart Binder-Macleod)	
Date	2017-2019	

Previous Grant Support

Source	(5K12HD055929-09) Eunice Kennedy Shriver National Institute of Child Health & Human Development, National Institutes of Health	
Title	Rehabilitation Research Career Development Program	
Role	Trainee (PI: Kenneth J. Ottenbacher)	
Date	2016-2017	
Source	(H133P110012) National Institute on Disability, Independent Living, and Rehabilitation Research	
Title	Advanced Rehabilitation Research Training Program	
Role	Postdoctoral Fellow (PI: Kenneth J. Ottenbacher)	
Date	2015-2016	
Source	(5T32GM081740-08) National Institute of General Medical Sciences, National Institutes of Health	
Title	Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	
Role	Predoctoral Fellow (PI: Ronald J. Prinz)	
Date	2012-2014	

Source (SCIRF 13-003) South Carolina Spinal Cord Injury Research Fund
 Title Aerobic Exercise to Treat Depression Following Incomplete Spinal Cord Injury
 Role Co-investigator (PI: Stacy L. Fritz)
 Date 2013-2014

PROFESSIONAL LICENSURE AND CERTIFICATIONS:

2008 - Present: State of South Carolina Licensed Physical Therapist

TEACHING EXPERIENCE:

Instructor		
2018	Evidence-Based Practice I	Medical University of South Carolina
2017, 2018	Evidence-Based Practice III	Medical University of South Carolina
Co-instructor		
2013, 2014	Neuromuscular Assessment and Treatment I	University of South Carolina
Facilitator		
2018	Interprofessional Patient Support and Intervention	Medical University of South Carolina
Teaching Assistant		
2012	Neuromuscular Assessment and Treatment II	University of South Carolina
Guest lecturer		
2017, 2018	Evidence-Based Practice II	Medical University of South Carolina
2016	Introduction to Rehabilitation Science	University of Texas Medical Branch
2016	Rehabilitation Sciences Seminar	University of Texas Medical Branch
2012-2014	Postural Control	University of South Carolina
2012, 2013	Treatment Strategies: Multiple Sclerosis, Guillain-Barre Syndrome, Amyotrophic Lateral Sclerosis, Post-polio Syndrome, and Parkinson's Disease	University of South Carolina
2012, 2013	Intervention Approaches: Functional Training, Augmented Therapeutic Techniques, Bobath, Neurodevelopmental Treatment, Brunnstrom, Sensory Integration, and Motor Relearning Program	University of South Carolina
2012, 2013	Standardized Assessments	University of South Carolina

PUBLICATIONS:Articles in Peer-Reviewed Journals

1. **Middleton A**, Graham JE, Prvu Bettger J, Haas A, Ottenbacher KJ. Facility and Geographic Variation in Rates of Successful Community Discharge following Inpatient Rehabilitation among Medicare Fee-for-service Beneficiaries. *JAMA Network Open*. 2018;1(7): e184332. doi:10.1001/jamanetworkopen.2018.4332.
2. **Middleton A**, Kuo YF, Graham JE, Karmarkar A, Lin Y, Goodwin JS, Hass A, Ottenbacher KJ. Readmission patterns over 90-day episodes of care among Medicare fee-for-service beneficiaries discharged to post-acute care. *Journal of the American Medical Directors Association*. 2018; 19(10), 896-901.
3. **Middleton A**, Downer B, Haas A, Knox S, Ottenbacher KJ. Functional status is associated with 30-day potentially preventable readmissions following home health care. *Medical Care*. Accepted, October 2018.
4. Goodwin JS, Li S, **Middleton A**, Ottenbacher KJ, Kuo YF. Differences between skilled nursing facilities in risk of subsequent long-term care placement. *Journal of the American Geriatrics Society*. 2018; 66(10), 1880-1886.
5. Fisher S, **Middleton A**, Graham JE, Ottenbacher KJ. The same but different: summary scores of physical functioning. *Archives of Physical Medicine and Rehabilitation*. 2018; 99(8), 1479-1482.
6. **Middleton A**, Graham JE, Ottenbacher KJ. Functional status is associated with 30-day potentially preventable hospital readmissions following inpatient rehabilitation among aged Medicare fee-for-service beneficiaries. *Archives of Physical Medicine & Rehabilitation*. 2018; 99(6), 1067-1076.
7. Andrews AW, **Middleton A**. Improvement during inpatient rehabilitation among older adults with Guillain-Barre Syndrome, Multiple Sclerosis, Parkinson Disease, and Stroke. *American Journal of Physical Medicine & Rehabilitation*. Epub, June 2018.
8. Li S, **Middleton A**, Ottenbacher KJ, Goodwin JS. Trajectories over the first year of long-term care nursing home residence. *Journal of the American Medical Directors Association*. 2018; 19(4), 333-341.
9. **Middleton A**, Downer B, Haas A, Lin Y, Graham JE, Ottenbacher KJ. Functional status is associated with 30-day potentially preventable readmissions following skilled nursing facility discharge among Medicare beneficiaries. *Journal of the American Medical Directors Association*. 2018; 19(4), 348-354.
10. Howrey B, Al Snih S, **Middleton A**, Ottenbacher KJ. Trajectories of frailty among older Mexican origin adults. *Geriatrics and Gerontology International*. Under review, March 2018.
11. Graham JE, **Middleton A**, Prvu-Bettger J, Mallinson T, Roberts P. Health services research in rehabilitation and disability- The time is now. *Archives of Physical Medicine and Rehabilitation*. 2018; 99(1), 198-203.
12. **Middleton A**, Li S, Kuo YF, Ottenbacher KJ, Goodwin JS. New institutionalization in long term care after hospital discharge to skilled nursing facility. *Journal of the American Geriatrics Society*. 2018; 66(1), 56-63.
13. Peters DM, Fridriksson J, Stewart JC, Richardson JD, Rorden C, Bonilha L, **Middleton A**, Gleichgerrcht E, Fritz SL. Cortical disconnection of the ipsilesional primary motor cortex is

- associated with gait speed and upper extremity motor impairment in chronic left hemispheric stroke. *Human Brain Mapping*. 2018; 39(1), 120-132.
14. Martinez J, Leland N, Murphy T, **Middleton A**, Hanley K. Enhancing care quality in rehabilitation service delivery: A framework for stakeholder engagement. *Physical & Occupational Therapy in Geriatrics*. Under review, December 2017.
 15. **Middleton A**, Graham JE, Deutsch A, Ottenbacher KJ. Potentially preventable within stay readmissions among Medicare fee-for-service beneficiaries receiving inpatient rehabilitation. *PM&R*. 2017; 9(11), 1095-1105.
 16. Mathews H, **Middleton A**, Boan L, Jacks M, Riddick L, Shepherd J, McNeal A, Patel J, Fritz SL. Intra- and inter-rater reliability of a hand-held dynamometric technique to quantify abductor pollicis brevis strength in individuals with and without carpal tunnel syndrome. *Journal of Hand Therapy*. Epub, September 2017.
 17. Swartz MC, Lewis ZH, Lyons EJ, Jennings K, **Middleton A**, Deer R, Arnold D, Dresser K, Ottenbacher KJ, Goodwin J. Effect of home and community-based physical activity interventions on physical function among cancer survivors: A systematic review and meta-analysis. *Archives of Physical Medicine and Rehabilitation*. 2017; 98(8), 1652-1665.
 18. Graham JE, Prvu Bettger J, **Middleton A**, Spratt H, Sharma G, Ottenbacher KJ. Effects of acute-postacute continuity on community discharge and 30-day rehospitalization following inpatient rehabilitation. *Health Services Research*. 2017; 52(5), 1631-1646.
 19. **Middleton A**, Lin Y, Graham JE, Ottenbacher KJ. Outcomes over 90-day episodes of care in Medicare fee-for-service beneficiaries receiving joint replacement. *Journal of Arthroplasty*. 2017; 32(9), 2639-2647.
 20. **Middleton A**, Zhou J, Ottenbacher KJ, Goodwin JS. Hospital variation in rates of new institutionalizations within six months of discharge. *Journal of the American Geriatrics Society*. 2017; 65(6), 1206-1213.
 21. Pretz CR, Graham JE, **Middleton A**, Ottenbacher KJ. Longitudinal investigation of rehospitalization patterns in spinal cord and traumatic brain injury among Medicare beneficiaries. *Archives of Physical Medicine & Rehabilitation*. 2017; 98(5), 997-1003.
 22. Liuzzo DM, Peters DM, **Middleton A**, Lanier W, Chain R, Barksdale B, Fritz SL. Measurements of weight bearing asymmetry using the Nintendo Wii balance board are not reliable for older adults and individuals with stroke. *Journal of Geriatric Physical Therapy*. 2017; 40(1), 37-41.
 23. **Middleton A**, Graham JE, Krishnan S, Ottenbacher KJ. Program interruptions and short-stay transfers represent potential targets for inpatient rehabilitation care-improvement efforts. *American Journal of Physical Medicine & Rehabilitation*. 2016; 95(11), 850-861.
 24. Lusardi MM, Fritz SL, **Middleton A**, Allison LK, Wingwood M, Phillips E, Criss M, Verma S, Osborne J, Chui KK. Determining risk of future falls in community-dwelling older adults: A systematic review and meta-analysis using post-test probability. *Journal of Geriatric Physical Therapy*. 2016; 40(1), 1-36.
 25. **Middleton A**, Graham JE, Lin Y, Goodwin JS, Prvu Bettger J, Deutsch A, Ottenbacher KJ. Motor and cognitive functional status are associated with 30-day unplanned rehospitalization following post-acute care in Medicare fee-for-service beneficiaries. *Journal of General Internal Medicine*. 2016; 31(12), 1427-34.

26. **Middleton A**, Braun CH, Lewek MD, Fritz SL. Balance impairment limits ability to increase walking speed in individuals with chronic stroke. *Disability and Rehabilitation*. 2016; 13, 1-6.
27. **Middleton A**, Fulk GD, Herter TM, Beets MW, Donley J, Fritz SL. Self-selected and maximal walking speeds provide greater insight into fall status than walking speed reserve among community-dwelling older adults. *American Journal of Physical Medicine & Rehabilitation*. 2016; 95(7), 475-82.
28. **Middleton A**, Fulk GD, Beets MW, Herter TM, Fritz SL. Self-selected walking speed is predictive of daily ambulatory activity in older adults. *Journal of Aging and Physical Activity*. 2016; 24(2), 214-22.
29. DiPiro N, Embry A, Fritz SL, **Middleton A**, Krause J, Gregory C. Effects of aerobic exercise training on fitness and walking-related outcomes in ambulatory individuals with chronic incomplete spinal cord injury. *Spinal Cord*. 2016; 54(9), 675-81.
30. **Middleton A**, Fritz SL, Lusardi MM. Walking speed: The functional vital sign. *Journal of Aging and Physical Activity*. 2015; 23(2), 314-22.
31. Peters DM, Jain S, Liuzzo DM, **Middleton A**, Greene J, Blanck E, Sun S, Raman R, Fritz SL. Individuals with chronic traumatic brain injury improve walking speed and mobility with Intensive Mobility Training. *Archives of Physical Medicine and Rehabilitation*. 2014; 95(8), 1454-60.
32. **Middleton A**, Fritz SL, Liuzzo D, Newman-Norlund R, Herter TM. Using clinical and robotic assessment tools to examine the feasibility of pairing tDCS with upper extremity physical therapy in patients with stroke and TBI: a consideration-of-concept pilot study. *NeuroRehabilitation*. 2014; 35(4), 741-754.
33. **Middleton A**, Merlo-Rains A, Peters DM, Greene JV, Blanck EL, Moran R, Fritz SL. Body weight supported treadmill training is no better than overground training for individuals with chronic stroke, a randomized control trial. *Topics in Stroke Rehabilitation*. 2014; 21(6), 462-476.
34. Peters DM, **Middleton A**, Donley JW, Blanck EL, Fritz, SL. Concurrent validity of walking speed values calculated via the GAITRite electronic walkway and 3 Meter Walk Test in the chronic stroke population. *Physiotherapy Theory and Practice*. 2013; 30(3), 183-8.
35. **Middleton A**, Fritz SL. Assessment of gait, balance, and mobility in older adults: Considerations for clinicians. *Current Translational Geriatrics and Experimental Gerontology Reports*. 2013; 2, 205-214.

Refereed Abstracts

1. Martinez J, Leland NE, Furniss J, **Middleton A**, Hanley K, Pacifici E, Murphy T, Holyk H, Karchem D. (2018). Advancing occupational therapy care through stakeholder and patient-engaged quality improvement initiatives. *American Journal of Occupational Therapy*, 2018; 72(4), Supplement 1. doi: 10.5014/ajot.2018.72S1-RP402B
2. **Middleton A**, Fulk G, Herter TM, Beets M, Donley JD, Fritz SL. Walking speed reserve identifies fall status in older adults receiving physical therapy for impaired mobility but not in healthy controls: Cross-sectional study. *Journal of Geriatric Physical Therapy*. January, 2016.
3. Peters D, Fritz S, Stewart JC, Richardson JD, **Middleton A**, Fridriksson J, Rorden C, Bonilha L, Gleichgerrcht E, Herter TM, Newman-Norlund R. Cortical Disconnection of the Ipsilesional Primary

- Motor Cortex is Associated with Gait Speed and Upper Extremity Motor Impairment in Chronic Stroke. *Journal of Neurologic Physical Therapy*. January 2016.
4. **Middleton A**, Fulk GD, Beets MW, Herter TM, Fritz SL Self-selected walking speed is predictive of community walking behavior in older adults. *Archives of Physical Medicine and Rehabilitation*. 2015; 96(10), e52.
 5. Tryon S, Spead O, **Middleton A**, Marebwa B, Rorden C, Fridriksson J, Fritz S, Herter TM. Lesion symptom mapping of brain regions involved in action selection and specification during trail making. *Society for Neuroscience*, 2015.
 6. **Middleton A**, Fritz SL. Walking Speed Reserve: Ability of the measure to identify fall risk in community-dwelling individuals with chronic stroke. *Journal of Neurologic Physical Therapy*. January 2015.
 7. Callahan S, Liuzzo DM, Peters DM, **Middleton A**, Fritz SL. An observational analysis of the amount of practice performed by individuals with traumatic brain injury during intensive mobility training. *Journal of Neurologic Physical Therapy*. January 2015.
 8. Peters D, Jain S, Liuzzo D, **Middleton A**, Brown J, Blanck E, Sun S, Raman R, Fritz SL. Feasibility and Impact of Different Dosages of Intensive Mobility Training in Individuals with Chronic Traumatic Brain Injury. *Journal of Neurologic Physical Therapy*. January 2015.
 9. **Middleton A**, Peters D, Donley J, Blanck E, Fritz SL. Concurrent validity of walking speed values calculated via the GAITRite electronic walkway and 3 Meter Walk Test in the chronic stroke population. *Journal of Neurologic Physical Therapy*. 2014; 38(1), 26-99.
 10. Fritz SL, **Middleton A**, Merlo A, Peters D, Blanck E. Body-weight supported treadmill training is no better than overground gait training during Intensive Mobility Training for individuals with chronic stroke: A randomized control trial. *Journal of Neurologic Physical Therapy*. 2014; 38(1), 15-25.
 11. Liuzzo D, Greene J, Peter DM, **Middleton A**, Blanck E, Fritz SL. Increasing the dosage of intensive mobility training improves fast gait speed and functional balance in individuals with chronic TBI. *Journal of Neurologic Physical Therapy*. 2014; 38(1), 26-99.
 12. **Middleton A**, Liuzzo D, Newman-Norlund R, Fritz SL, Herter TM. Using clinical and robotic assessment tools to examine the feasibility of pairing tDCS with standard physical therapy in patients with stroke and TBI. *Neurorehabilitation and Neural Repair*. 2014; 28(4), NP1-NP25.

CONFERENCE PRESENTATIONS / INVITED LECTURES:

Kraft S, Bowden M, Monsch E, **Middleton A**. How to FIIT Best practice in Neurological Rehabilitation. SCAPTA Annual Conference; Greenville, SC: March 2019 [Accepted].

Middleton A, Schmidt C, Horn M, Falvey J. Leveraging Big Data to Inform Clinical Decisions and Drive Quality Improvement. American Physical Therapy Association Combined Sections Meeting; Washington DC: January 2019.

Seif G, Timko M, Faris K, Russo G, **Middleton A**. Transferring Weekend Continuing Education to Monday Morning Patient Care: A Pilot Study for Quality Improvement. AAOMPT 2018 Annual Conference; Reno, NV: November 2018.

Middleton A, Parry C, Jones ML, Pastva A, Hoffman JM, Lutz B, Prvu Bettger J. PCORI's TC-E2AN Trials to Enhance Care Transitions for Patients with Rehabilitation Needs. ACRM Annual Meeting; Dallas, TX: October 2018.

Middleton A, Bowden M, Monsch E. Lessons Learned from an Implementation Trial in the Inpatient Rehabilitation Setting. ACRM Annual Meeting; Dallas, TX: October 2018.

Martinez J, Leland NE, **Middleton A**, Furniss J, Hanley K, Pacifici E, Murphy T, Holyk H, Karchem D. Advancing occupational therapy care through stakeholder and patient engaged quality improvement initiatives. American Occupational Therapy Association Annual Conference & Meeting. Salt Lake City, UT: April 2018.

Middleton A, Graham JE, Ottenbacher KJ. Functional Status is Associated with 30-day Potentially Preventable Hospital Readmissions following Inpatient Rehabilitation among Aged Medicare Fee-for-Service Beneficiaries. American Physical Therapy Association Combined Sections Meeting; New Orleans, LA: February 2018.

Ottenbacher KJ, Ward R, **Middleton A**. Leveraging Existing Data to Answer Novel Research Questions: Perspectives on Archiving and Using Research Data. ACRM Annual Meeting; Atlanta, GA: October 2017.

Graham JE, Nakase-Richardson R, **Middleton A**, Kumar A, Reistetter T, Mroz T, Li C. Health Services Research Efforts within the ACRM, Part II. ACRM Annual Meeting; Atlanta, GA: October 2017.

Middleton A, Graham JE, Nakase-Richardson R, Massengale J, Dismuke C, Downer B. Health Services Research Efforts within the ACRM, Part III. ACRM Annual Meeting; Atlanta, GA: October 2017.

Graham JE, Cernich A, Pienta A, Bean JF, **Middleton A**. Broadening Access to Research Data in the Rehabilitation and Disability Fields. Datapalooza; Washington DC: April 2017.

Middleton A. Improving Care for Older Adults. Preventative Medicine and Community Health Seminar Series; Galveston, TX: March 2017.

Middleton A. Functional Independence in Older Adults. Galveston Aging Care Network; Galveston, TX: October 2016.

Graham JE, Fisher SR, **Middleton A**, Mallinson T. Opportunities for health services research within the ACRM. ACRM Annual Meeting; Chicago, IL: October 2016.

Middleton A. Minority populations and individuals receiving care in critical access hospitals are at increased risk for multiple hospital readmissions. Texas Public Health Association Annual Educational Conference; Galveston, TX: April 2016.

Middleton A. Motor and cognitive functional status are associated with 30-day unplanned rehospitalization following post-acute care in Medicare fee-for-service beneficiaries. Pepper Investigators Lecture; University of Texas Medical Branch, Galveston, TX: February 2016.

Middleton A. Self-selected walking speed is predictive of community walking behavior in older adults. Graduate Student Day; University of South Carolina, Columbia, SC: April 2015.

Lusardi MM, Allison LK, Bell A, Chui K, Fritz SL, **Middleton A**, Renfro MO, Philips E, Wingwood M. GeriEDGE-2: Fall risk assessment and outcome measures: Recommendations. American Physical Therapy Association Combined Sections Meeting; Indianapolis, IN: February 2015.

Middleton A. Aerobic exercise to treat depression following incomplete spinal cord injury. South Carolina Spinal Cord Injury Research Fund Board of Directors Meeting, Columbia, SC. May 2014.

Fritz SL, **Middleton A**, Merlo A, Peters D, Blanck E. Body-weight supported treadmill training is no better than overground gait training during Intensive Mobility Training for individuals with chronic stroke: A randomized control trial. American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014.

Lusardi MM, Allison LK, Bartonicek M, Bell A, Chui K, Fritz SL, **Middleton A**, Philips EL, Renfro MO, Shubert T. Recommendations on risk of falling assessment: Outcome of the GeriEDGE Workgroup. American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014.

Middleton A, Fritz SL, Peters DM, Merlo A, Donley J. Active video gaming effects on balance and mobility in individuals with chronic stroke: A randomized controlled trial. American Physical Therapy Association Combined Sections Meeting; San Diego, CA: January 2013.

Poster Presentations

Middleton A, Downer B, Haas A, Lin Y, Graham JE, Ottenbacher KJ. Functional Status is Associated with 30-day Potentially Preventable Readmissions following Skilled Nursing Facility Discharge among Medicare Beneficiaries. CoHSTAR Summer Institute; Boston, MA: April 2018.

Hong I, **Middleton A**, Reistetter TA. Risk factors for disability progression among Mexican American older adults. Accepted for presentation at AOTA Annual Conference & Expo; Salt Lake City, Utah: April 2018.

Middleton A, Graham JE, Ottenbacher KJ. Functional status is associated with 30-day potentially preventable readmissions following inpatient rehabilitation among Medicare fee-for-service beneficiaries. CoHSTAR Summer Institute; Boston, MA: June 2017.

Middleton A, Zhou J, Ottenbacher KJ, Goodwin JS. Hospital-level variation in rates of new institutionalizations within six months of discharge among Medicare fee-for-service beneficiaries. Annual Forum on Aging; Galveston, TX: October 2016.

Middleton A, Graham JE, Ottenbacher KJ. Facility-type is associated with potentially-preventable within stay readmissions in Medicare fee-for-service beneficiaries receiving inpatient rehabilitation. AcademyHealth Annual Research Meeting; Boston, MA: June 2016.

Middleton A, Graham JE, Ottenbacher KJ. Case-mix influences facility-level variation in potentially preventable within stay readmission rates across inpatient rehabilitation facilities. Rehabilitation Research at NIH Moving the Field Forward conference; Bethesda, MD: May 2016.

Mathews H, Jacks M, Riddick L, **Middleton A**, McNeal A, Fritz SL. Intra- and inter-rater reliability of a hand-held dynamometric technique to quantify abductor pollicis brevis and abductor digiti minimi strength. SCAPTA Annual Conference; Charleston, SC: May 2016.

Middleton A, Graham JE, Lin Y, Goodwin J, Prvu Bettger J, Deutsch A, Ottenbacher KJ. Motor and cognitive functional status are associated with 30-day unplanned rehospitalization following post-acute care in Medicare fee-for-service beneficiaries. Pepper Annual Meeting; Washington DC: April 2016.

Middleton A, Fulk G, Herter TM, Beets MW, Donley J, Fritz SL. Walking speed reserve identifies fall status in older adults receiving physical therapy for impaired mobility but not in healthy controls: Cross-sectional study. American Physical Therapy Association Combined Sections Meeting; Anaheim, CA: February 2016.

Gunn B, **Middleton A**, Fritz S. Select clinical measures for strength and mobility do not predict daily ambulatory activity in community-dwelling adults. 12th Annual Aging Day Conference; Charleston, South Carolina: February 2016.

Middleton A, Lin Y, Ottenbacher KJ, Graham JE. Functional status and cognition are associated with 30-day unplanned rehospitalization following postacute care. Annual Forum on Aging; Galveston, TX: October 2015.

Middleton A, Fulk GD, Beets MW, Herter TM, Fritz SL. Self-selected walking speed is predictive of community walking behavior in older adults. American Congress of Rehabilitation Medicine Annual Meeting; Dallas, TX: October 2015.

Tryon S, Spead O, **Middleton A**, Marebwa B, Rorden C, Fridriksson J, Fritz SL, Herter TM. Lesion symptom mapping of brain regions involved in action selection and specification during trail making. Society for Neuroscience Annual Conference; Chicago, IL: November 2015.

Middleton A, Fritz SL. Walking speed reserve: Ability of the measure to identify fall risk in community-dwelling individuals with chronic stroke. American Physical Therapy Association Combined Sections Meeting; Indianapolis, IN: February 2015.

Peters D, Jain S, Liuzzo D, **Middleton A**, Brown J, Blanck E, Sun S, Raman R, Fritz SL. Feasibility and impact of different dosages of intensive mobility training in individuals with chronic traumatic brain injury. American Physical Therapy Association Combined Sections Meeting; Indianapolis, IN: February 2015.

Middleton A, Peters D, Donley J, Blanck E, Fritz SL. Concurrent validity of walking speed values calculated via the GAITRite electronic walkway and 3 Meter Walk Test in the chronic stroke population. South Carolina chapter of the American Physical Therapy Association Annual Meeting; Charleston, SC: March 2014.

Middleton A, Peters D, Donley J, Blanck E, Fritz SL. Concurrent validity of walking speed values calculated via the GAITRite electronic walkway and 3 Meter Walk Test in the chronic stroke population. American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014.

Liuzzo D, Greene J, Peter DM, **Middleton A**, Blanck E, Fritz SL. Increasing the dosage of Intensive Mobility Training improves fast gait speed and functional balance in individuals with chronic TBI. American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014.

Middleton A, Peters D, Donley J, Blanck E, Fritz SL. Concurrent validity of walking speed values calculated via the GAITRite electronic walkway and 3 Meter Walk Test in the chronic stroke population. Aging Research Day and Geriatric Symposium; Columbia, SC: January 2014.

Henning J, Donley J, Fritz SL, **Middleton A**. A single dose of whole body vibration acutely influences muscle activation and hamstring length in community dwelling geriatrics. Aging Research Day and Geriatric Symposium; Columbia, SC: January 2014.

Middleton A, Liuzzo D, Herter T, Fritz SL, Newman-Norlund R. Using clinical and robotic assessment tools to examine the feasibility of pairing tDCS with standard physical therapy in patients with stroke and TBI. Society for Neuroscience Annual Conference; San Diego, CA: November 2013.

Middleton A, Liuzzo D, Herter T, Fritz SL, Newman-Norlund R. Quantifying the feasibility of pairing tDCS with standard physical therapy following neurological insult using clinical and robotic assessment tools. American Society for Neurorehabilitation Annual Conference; San Diego, CA; November 2013.

Middleton A, Liuzzo D, Herter T, Fritz SL, Newman-Norlund R. Improving post-stroke upper extremity outcomes using transcranial direct current stimulation. South Carolina chapter of the American Physical Therapy Association Annual Meeting; Myrtle Beach, SC: May 2013.

Middleton A, Liuzzo D, Herter T, Fritz SL, Newman-Norlund R. Improving post-stroke upper extremity outcomes using transcranial direct current stimulation. Graduate Student Day; University of South Carolina, Columbia, SC: April 2013.

AWARDS AND HONORS:

2016 American Journal of Physical Medicine & Rehabilitation Excellence in Research Writing Honorable Mention

2016 Invited junior faculty attendee at the Workshop on Pathways, Contributors and Correlates of Functional Impairment across Specialties hosted by the project “A Transdisciplinary Approach to Engage Specialty Investigators in Aging Research” (NIA U13 and John A. Hartford Foundation)

2015 Excellence in Post-Doctoral Research Award, Annual Forum on Aging. Galveston, TX

2015 Outstanding Exercise Science Doctoral Student

2015 Delta Omega Honorary Society in Public Health- Mu Chapter

2014 Department of Exercise Science candidate nominated for Breakthrough Graduate Scholar Award

2013 Top post-professional student poster presentation award, South Carolina Physical Therapy Association Annual Meeting. Myrtle Beach, SC

2013 - 2015 Travel grants: University of South Carolina Graduate School (2013, 2014, 2015), University of South Carolina Department of Exercise Science (2013), Behavioral-Biomedical Interface Program (2013, 2014), Dean’s Student Travel Award (2015)

2003 Omicron Delta Epsilon Honor Society in Economics

PEER REVIEW ACTIVITY:

Grant Reviewer

- NIDILRR Field Initiated Projects (2016)
- Center for Large Data Research & Data Sharing in Rehabilitation Pilot Projects Program (2016, 2017, 2018)
- Stroke Association (United Kingdom) Development Project Grant Application (2017)

Manuscript Reviewer

- Journal of the American Medical Directors Association
- Journal of the American Geriatrics Society
- PTJ
- Journal of Gerontology: Medical Sciences
- Archives of Physical Medicine and Rehabilitation
- Journal of Geriatric Physical Therapy
- Clinical Rehabilitation
- Disability and Rehabilitation

- Journal of Aging and Physical Activity
- Physical Medicine & Rehabilitation
- Topics in Stroke Rehabilitation

Abstract Reviewer

- Neurology Section of the American Physical Therapy Association, Platform and Poster Sessions, Combined Sections Meeting (2015, 2017, 2018)
- American Congress of Rehabilitation Medicine, Plenary Sessions and Special Symposiums, Annual Meeting (2017, 2018)

COMMITTEE SERVICE:

National

- 2018: Planning Committee, 2019 CoHSTAR Summer Institute
- 2017-2018: Programming Committee, American Congress of Rehabilitation Medicine Annual Meeting
- 2017-present: Secretary, Health Services Research Networking Group, American Congress of Rehabilitation Medicine
- 2016: Co-chair, Health Services Research Taskforce, Measurement Networking Group, American Congress of Rehabilitation Medicine
- 2015, 2018: Ad-hoc abstract review committee for the Neurology Section of the APTA for 2016 Combined Sections Meeting
- 2013 – 2015: GeriEDGE Fall Risk Assessment Workgroup

State

- 2013 – 2015: South Carolina Physical Therapy Association Research and Practice Committee

University

- 2018-present: College of Health Professions Alternate Representative, Faculty Senate (MUSC)
- 2018-present: Faculty Senate Governance Committee (MUSC)
- 2018-present: Center on Aging Executive Committee (MUSC)
- 2018-present: Faculty Assembly Nominations Committee (MUSC)
- 2018-present: Division of Physical Therapy Professionalism Committee (MUSC)
- 2017-present: Division of Physical Therapy Admissions Committee (MUSC)
- 2017-present: Research Communications Committee (MUSC)
- 2015: Committee for Career Development (UTMB)
- 2015: Division of Rehabilitation Sciences Faculty Search Committee (UTMB)

MEMBERSHIP IN SCIENTIFIC / PROFESSIONAL ORGANIZATIONS:

Current

- American Congress of Rehabilitation Medicine
- American Physical Therapy Association

MENTORING:

PhD Dissertation Committee (1 student, graduated)

DPT Research Project Committees (12 students, graduated)