

Stacy L. Fritz, PhD, PT

sfritz@mailbox.sc.edu

1300 Wheat Street, Blatt PE Center, University of South Carolina, Columbia, SC 29208

(803) 777-6887

EDUCATION

Doctoral Education	PhD in Rehabilitation Sciences , University of Florida; Gainesville, FL. Major: Movement Dysfunction ; Minor: Gerontology (1999 to 2004)
Masters and Undergraduate	Master of Science in Physical Therapy and Bachelors of Health Sciences University of Kentucky; Lexington, KY. (1990 to 1997)

FELLOWSHIPS

Graduate, Education Leadership Institute Fellowship, American Physical Therapy Association (2016)

ACADEMIC EMPLOYMENT

2020- present	Professor, University of South Carolina (USC) ; Arnold School of Public Health, Department of Exercise Science, Physical Therapy Program. Columbia, SC
2012- present:	Program Director, Physical Therapy Program; USC ; Arnold School of Public Health, Department of Exercise Science.
2013 - 2019:	Associate Professor, USC
2010 - 2013:	Assistant Professor, USC
2004 - 2010:	Clinical Assistant Professor, USC
Other:	
2015- present:	Faculty Affiliate, TecHealth Center, USC
2012- present:	Faculty Affiliate, Prevention Research Center, USC
2009-2012:	Adjunct Assistant Professor or Internal Medicine, USC School of Medicine

TEACHING EXPERIENCE

Instructor of record	University of South Carolina, Physical Therapy Program (<i>developed* or significantly revised** course</i>) <ul style="list-style-type: none"> • Health Promotion & Wellness in PT*(Summer 2018- present)- PHYT 777 • Foundations of Physical Therapy* (Summer 2015-present)- EXSC 201 • Physical Therapy Seminar* (Fall 2007- present)- PHYT 785 • Neuro Assessment & Treatment I* (Summer 2012- 2017)- PHYT 809 • Evidence-Based Practice* (Spring 2007- 2017)- PHYT 788 • Research Proposal Development* (Fall 2007- Spring 2017)- PHYT 753 • Interprofessional Education (Spring 2014-2016)- PUBH 678 • Neuro Assessment and Treatment II** (Fall 2004- 2013)- PHYT 810 • Multiple independent Studies (2004- present)
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- Research Advisor **University of South Carolina**, Dept. of Exercise Science
- Dissertation Chair, PhD students (2 active, 5 graduated)
 1. Reed Handlery, DPT- 2017 to present
 2. Elizabeth Regan, DPT- 2016 to present
 3. Derek Liuzzo, PhD, DPT- 2017
 4. Denise Peters, PhD, DPT- 2015
 5. Addie Middleton, PhD, DPT- 2015
 6. Jennifaye Brown, PhD, PT- 2013
 7. Angela Merlo, PhD, DPT- 2010
 - Committee member for PhD students (2 active, 6 graduated)
 - Project Chair for DPT students research (57 students graduated)
 - *DPT projects are similar in depth and breadth to a Master's thesis in which students must propose and defend a research project; however some projects are individual and some in groups.*
 - Committee member for DPT student research (100 graduated)
 - Committee member for Masters Student (3 graduated)
 - Undergraduate Honors Student (1 graduated)
- Teaching Assistant **University of Florida**, Dept. of Physical Therapy
- Neurological Evaluation (Fall 1999, 2000, 2001)
 - Neurological Treatment and Motor Control (Spring 2000, 2001)
 - Clinical Problem Solving (Fall 1999)
 - Intro to Physical Therapy (Ther-ex I & II) (Summer 2000, 2001)
 - Gerontology (Spring 2001)
 - Case Study in Physical Therapy (Spring 2002, 2003)

GRANTS

ONGOING RESEARCH SUPPORT:

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|---|-------------------------------|
| 1. NIH (NIA) (Caicedo, Zhaoshuo)
1R01AG067395-01
<i>SCH: INT: Inferring at home gait parameters of older adults using floor vibrations</i>
The investigators propose to create and leverage vibrational sensors that can measure floor vibrations to determine in-home gait parameters as a function of time and space; and correlate changes in gait parameters, after considering spatial-temporal factors, to the well-being of the resident.
Role: Co- Investigator | 9/2019- 5/2023
\$1,179,484 |
| 2. ASPIRE (Stewart)
University of South Carolina
Task-Oriented Training of Arm Function in Standing after Stroke: A Pilot Study
The overall goal of the proposed project is to determine the feasibility and preliminary efficacy of arm training provided in a standing position in individuals with arm deficits due to stroke.
Role: Co-Investigator | 5/2019- 4/2020
\$14,929 |
| 3. Excellence Initiative (Fridriksson)
Office of the Provost, University of South Carolina
<i>Aging brain cohort at the University of South Carolina (ABC@USC)</i> | 2019-2024
\$4,000,000 |

Funds a research collaboration on brain health among 20+ faculty members at UofSC. The goal is to build a comprehensive cross-sectional and longitudinal database that includes factors related to brain structure and function, genetics, diet, physical health, social status, and neuropsychological testing.

Role: Co-Investigator

4. NIH (NIA) (**Fritz**) 11/2018 – 10/2019
1R41AG059475-01A1 \$224,706

Mitigating Injurious Falls in Older Adults Through Non-Injurious Fall and Gait Analysis From Floor Vibrations.

The purpose of this study is to validate and improve measurements taken from a vibration detection system to better identify walking speed from floor vibrations and compare results to walking measurements using traditional methods.

Role: Principal Investigator

5. StrokeNET Clinical Study (Feng, Schlaug) 9/2018 - 8/2021
NIH (NINDS) \$7,045,568

1U01NS102353-01A1

TRANScranial Direct Current Stimulation Current for Post-stroke mOtor Recovery – A Phase II sTudy (TRANSPORT2).

The major goal of this study is to investigate the use of transcranial direct current stimulation for hand and arm recovery post-stroke. The four-year rehabilitation study will involve twelve clinical centers. As the subcontract principal investigator, Fritz is responsible for the standardization of the behavioral therapy on this large rehabilitation trial.

Role: Subcontract PI, co-investigator (Subcontract: \$127,443)

6. HPA the Catalyst (Regan**) 4/2018- 4/2020
American Physical Therapy Association - Health Policy & Administration Section. \$15,000

Integrating Stroke Survivors into Cardiac Rehabilitation: Exploring Effectiveness, Feasibility, Physical Therapist Involvement and Policy Implications.

To investigate physical activity for stroke survivors in existing cardiac rehabilitation setting. **Fritz is a co-investigator and mentor on this grant** submitted by her PhD student.

Role: Co-Investigator (**and mentor to Student PI)

7. NIH- NIMH (Chen, Levkoff, Chuengsatiansup) 8/2017-7/2022
1U19MH113201 \$810,639

Partnership in Implementation Science for Geriatric Mental Health (PRISM).

The goal is to establish a hub to integrate implementation research for scaling up sustainable, evidence-based mental health interventions with research capacity-building activities for East Asia with a focus on physical activity for older adults with dementia. **Fritz's role is the physical activity expert** and she is designing the physical activity program, delivery protocol, and functional outcome measurements.

Role: Consultant

8. Scientist Development Grant (Stewart) 7/2015-6/2020
American Heart Association- National Award \$308,000

Targeted Engagement of the Motor Action Selection Network during Arm Rehabilitation after Stroke

The aims of this study are to validate an action selection behavioral task as a probe of the premotor-prefrontal motor circuit after stroke and determine whether a period of motor training that targets this motor circuit leads to improved arm function.

Role: Co-Investigator

COMPLETED RESEARCH SUPPORT:

9. American Physical Therapy Association. **Fritz - SCAPTA** 12/2017-11/2018
Component Grants for Physical Activity, Exercise and Health Promotion \$10,000
The NExT (Neurological Exercise Training) Step in Promoting Healthy Lifestyles after Stroke.
 Community based, program assessment project to investigate physical activity for stroke survivors and their care partners.
 Role: Principal Investigator
10. NIH- NICHD- (Stewart) 3/2016-4/2018
1R03HD087481-01 \$140,734
Targeted Engagement of the Premotor-Prefrontal Motor Circuit after Stroke
 Goal is to determine the effect of a period of practice targeted at the premotor-prefrontal motor circuit through the addition of action selection demands to movement; and 2) determine whether behavioral improvement over practice can be predicted by initial performance.
 Role: Co-Investigator
11. Research Engagement Collaborative 1/2015- 12/2015
University of South Carolina \$20,000
iCare (Interprofessional Collaborative for Avoiding Readmissions through Education)
 Goal is to bring together a large group of interdisciplinary players to develop a large grant focused on reducing hospital readmission rates in SC.
 Role: Co- Investigator
12. Pilot Grant Program (Bosch) 6/2014-6/2015
University of Northern Arizona \$35,278
Appropriate Training Stimulus to Improve Function in Adults with Stroke-Related Walking Impairments
 The goal is to assess the feasibility of a high-intensity interval training protocol for individuals who have had a stroke. PI: Pamela Bosch, PhD, PT
 Role: Consultant
13. SCIRF 13-003 (**Fritz**) 11/2013-11/2014
South Carolina Spinal Cord Injury Research Fund \$14,578
Aerobic Exercise to Treat Depression Following Incomplete Spinal Cord Injury
 The goal of this project is investigate the effect of aerobic exercise on depression in individuals with incomplete spinal cord injury. Collaboration with Medical University of South Carolina.
 Role: Principal Investigator
14. ASPIRE II (Herter) 8/2013-12/2014
University of South Carolina \$98,000
Coupling Robotic Assessment with Gaze Tracking to Assess Action Selection Following Stroke.
 The goal of the grant is to investigate the role of gaze tracking in upper extremity reaching movements in those with chronic stroke. PI: Troy Herter, PhD
 Role: Co-Investigator
15. Injury & Traumatic Stress (INTRuST) Consortium (**Fritz**) 7/2011- 6/2014
US Army Medical Research and Materiel Command (USAMRMC) \$229,609
Improving Walking and Balance in Veterans with Traumatic Brain Injury: a Pilot Study Examining Feasibility and Dosage.

The goal of this proposal is to improve therapeutic interventions for the recovery of gait and balance following traumatic brain injury (TBI) by assessing the efficacy of Intensive Mobility Training (IMT).

Role: Principal Investigator

16. Injury & Traumatic Stress (INTRuST) Consortium (**Fritz**) 11/2011- 6/2014
US Army Medical Research and Materiel Command (USAMRMC) \$108,659

Study Site coordinating grant for study *Improving Walking and Balance in Veterans with Traumatic Brain Injury: a Pilot Study Examining Feasibility and Dosage*.

This grant was given to help support the above listed proposal by providing study site coordination.

Role: Principal Investigator

17. National Center Research Program- Scientist Development Grant (**Fritz**) 7/2008- 6/2012
American Heart Association \$280,000

Examining Differences in Outcomes for Intensive Mobility Training Compared to Locomotor Training in Chronic Stroke

The major goal of this grant is to evaluate if Intensive Mobility Training produced greater effects on gait, mobility, and balance for individuals with chronic impairments and disabilities from stroke when compared to a therapy of equal dosage and task intensity.

Role: Principal Investigator

18. Health Games Research (**Fritz**) 5/2008- 4/2011
Robert Wood Johnson Foundation \$112,000

Commercially-Available Interactive Video Games for Individuals with Chronic Mobility and Balance Deficits Post-Stroke

The primary aim of this proposal is designed to examine an innovative therapeutic approach by investigating the effects of commercially-available gaming systems on balance, mobility and fear of falling in a sample of individuals with chronic motor deficits from stroke.

Role: Principal Investigator

19. Pilot Research Award 12/2010-2/2012
National Multiple Sclerosis Society \$32,847

Home-based Balance Rehabilitation in Multiple Sclerosis: Effects of Nintendo Wii Fit

The goal of this proposal is to determine if a home based video gaming program can improve balance in individuals with Multiple Sclerosis

Role: Consultant

20. 1RO1 HD045751-01 A1 [Light, (**Fritz** subcontract PI)] 6/2006 – 5/2010
NIH/NCMRR \$825,000 (\$155,000 subcontract)

Examining Parameter of Constraint-Induced Therapy

The major goal of this grant is to determine if Constraint-Induced Therapy results in better outcomes for individuals post-stroke when the training and practice occurs onsite as opposed to a home practice.

Role: Subcontract PI

21. SCIRF 0105 (**Fritz**) 4/2006 – 2/2009
South Carolina Spinal Cord Injury Research Fund \$120,000

Intensive Mobility Training as an Intervention for Individuals with Incomplete Spinal Cord Injury

The major goal of this grant is to evaluate the effects of Intensive Mobility Training on gait, mobility, and balance for individuals with incomplete spinal cord injury.

Role: Principal Investigator

22. R21 (Mathern) 6/2005- 7/2007
National Institutes of Health \$275,000

Cortical Plasticity after Hemispherectomy

The goal of this grant is to investigate the plasticity occurring in children with a hemispherectomy following an intense lower extremity intervention.

Role: Co-Investigator

23. Seed Grant (Fritz) 12/2005 – 11/2006
University of South Carolina, Arnold School of Public Health \$15,000

Body Weight Support System for Intensive Mobility Training of Individuals Following a Stroke or Spinal Cord Injury.

The major goal of this grant was to help in funding the purchase of a Robomedica Body Weight Support System to use in other research.

Role: Principal Investigator

24. 1RO1 HD045751-01 A1 (Light) 8/2005 – 7/2006
NIH/NCMRR \$6000

Examining Parameter of Constraint-Induced Movement Therapy

The major goal of this grant is to determine if CIT results in better outcomes for individuals post-stroke when the training and practice occurs onsite as opposed to a home practice.

Role: Consultant

25. Research and Productive Scholarship (Fritz) 4/2005 – 6/2006
University of South Carolina \$18,000

Modified Constraint-Induced Movement Therapy for Individuals with Chronic Lower-Extremity Deficits Post-Stroke

The major goal of this grant is to perform pilot work investigating a new treatment intervention for recovery of gait, balance, and mobility for individuals with chronic stroke.

Role: Principal Investigator

26. SCIRF 015A (Fritz) 8/2005- 10/2005
South Carolina Spinal Cord Injury Research Fund \$5000

Repetitive Movement Therapy as an Intervention for Individuals with Incomplete Spinal Cord Injury: A Seed Redevelopment Grant

The goal of this grant was to fund the re-write of another proposal to SCSCIRF that was to perform pilot work investigating a new treatment intervention for recovery of gait, balance, and mobility for individuals with incomplete spinal cord injury.

Role: Principal Investigator

OTHER FUNDING

27. Visiting Scholars Grant Program (Fritz) 1/2015-6/2015
University of South Carolina \$14,816

Advancing evidence-based care for recurrent low back pain through expanding the scope of doctoral training and establishing a unique scholarly network.

Goal is to partially fund Dr. Sheri Silfies as a visiting scholar at the University of South Carolina

Role: Principal Investigator

28. Section on Geriatrics (Lusardi) 6/2013- 12/2015

American Physical Therapy Association

\$10,000

GerEDGE Evaluation of Fall Risk Assessment Tools and Fall Risk Abatement/Balance Outcome Measures.

The main goal of this grant is to evaluate clinometric properties/effectiveness of PT-based screening measures for falls risk. PI: Michelle Lusardi, PhD, PT

Role: Co- Investigator

29. Private Donation (**Fritz**)

9/2007- 12/2008

NA

\$9000

A private donation was given to investigate multiple sessions of Intensive Mobility Training for an individual with incomplete spinal cord injury, to determine if gait, balance and mobility can continue to improve over multiple sessions for someone with chronic impairments and disabilities.

30. Graduate Research Assistantship program (**Fritz**)

8/2007- 5/2008

University of South Carolina Graduate School

\$12,000

The intent of the Graduate Research Assistantship program is to provide one-time funds for hiring graduate assistants, enable them to work more closely with faculty on ongoing innovative research projects, and to assist faculty who are beginning new research projects.

OTHER RESEARCH EXPERIENCE

Lab Director	Director of Rehabilitation Laboratory at the University of South Carolina (2004-present)
Research Coordinator	Served as the research coordinator and grant physical therapist in a full time capacity for a grant funded by Florida Biomedical Granting Agency . Under direction of PI, I was in charge of day to day project, including: participant recruitment and coordination, scheduling, fidelity, data collection and organization, and staff hiring. 11/2001 to 11/2003. University of Florida, Gainesville, FL. College of Health Professions, Department of Physical Therapy. Constraint-Induced Therapy for Stroke Rehabilitation Study.
Research Evaluator	Served as a part time research evaluator for a national multi-center grant, primary role was as a masked evaluator for the intervention study. University of Florida, Gainesville, FL. College of Health Professions, Department of Physical Therapy, NIH Funded Multi-Center Grant: ExCITE National Clinical Trials . 6/2000 to 12/2003.
Research Investigator	Served as a part time research evaluator, primary role was as a masked evaluator for the intervention study. Veterans' Administration Hospital, Brain Rehabilitation Research Center. Gainesville, FL. Constraint-Induced Therapy Study. 2/2000 to 10/2001, Consultant 10/2001 to 6/2004.

PUBLICATIONS

Published Articles (* student author, **primary mentor or primary mentor for manuscript, ‡ senior author)

1. Handlery R**, Fulk G, Pellegrini C, Stewart, JC, Monroe C, **Fritz SL**. (2020). Stepping After Stroke: Walking Characteristics in People with Chronic Stroke Differ Based on Walking Speed, Walking Endurance and Daily Steps. *Physical Therapy Journal*. Jan 29. doi: 10.1093/ptj/pzaa020. [Epub ahead of print]
2. Regan EW**, Middleton A, Stewart J, Pearson JL, Wilcox S, **Fritz SL**. The Six-Minute Walk Test as a Fall Risk Screening Tool in Community Programs for Persons with Stroke: A Cross-Sectional Analysis. *Topics in Stroke Rehabilitation*. Accepted for publication 9-2019.

3. Regan EW**, Handlery R**, Beets MW, **Fritz SL**. Are Aerobic Programs Similar in Design to Cardiac Rehabilitation Beneficial for Survivors of Stroke? A Systematic Review and Meta Analysis. *Journal of the American Heart Association*. 2019;8(16):e012761.
4. Regan E**, Handlery R**, Liuzzo DM**, Stewart JC, Burke AR**, Hainline GM**, Horn C**, Keown JT**, McManus AE**, Lawless BS**, Purcell M**, ‡ **Fritz S**. The Neurological Exercise Training (NExT) Program: A Pilot Study of a Community Exercise Program for Survivors of Stroke. *Disability and Health*. 2019 July 12 (3) 528-532.
5. Lemes I*, Sui X, **Fritz S**, Beattie P, Lavie C, Turi-Lynch B, Blair S. Cardiorespiratory Fitness and Risk of All-Cause, Cardiovascular Disease and Cancer Mortality in Men with Musculoskeletal Condition. *Journal of Physical Activity and Health*. 2019 Feb 1;16(2):134-140. (JIF: 2.13)
6. Gunn L*, Stewart JC, Morgan BS*, Metts ST*, Magnuson JM*, Iglowski NJ*, **Fritz SL**, Arnot CF. Instrument-Assisted Soft Tissue Mobilization and Proprioceptive Neuromuscular Facilitation Techniques Improve Hamstring Flexibility Better than Static Stretching Alone: A Randomized Trial. *Journal of Manual & Manipulative Therapy*. 2019 Feb;27(1):15-23
7. Baird JF*, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, **Fritz SL**, Den Ouden DB, Stewart JC. The Effect of Energy-Matched Exercise Intensity on Brain-Derived Neurotrophic Factor and Motor Learning. *Neurobiology of Learning and Memory*. 2018 Dec; 156:33-44. (JIF: 3.525)
8. Peters D**, Fridriksson J, Stewart J, Richardson J, 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 Jan; 39(1):120-132. (JIF: 5.09; Journal Ranking: 2 out of 14 in Neuroimaging).
9. Mathews H, Middleton A, Boan L*, Jacks M*, Riddick L*, Shepherd J*, Patel J, McNeal A, **Fritz SL**‡. Intrarater and interrater reliability of a hand-held dynamometric technique to quantify palmar thumb abduction strength in individuals with and without carpal tunnel syndrome. *Journal of Hand Therapy*. 2018, Oct - Dec;31(4):554-561. (JIF: 2.0)
10. Regan E**, **Fritz SL**‡. Commentary on: Considerations for the selection of time-limited walk tests post-stroke: A systematic review of test protocols and measurement properties. *Journal of Neurologic Physical Therapy*, Jan 2017; 41; 18-20. (JIF: 3.259)
11. Singh T., Fridriksson J., Perry C*, Tryon SC*, Ross A*, **Fritz, SL**, & Herter, TM. A novel computational model to probe visual search deficits during motor performance. *Journal of Neurophysiology, Neurophysiol*. 2017 Jan 1;117(1):79-92. (JIF: 2.809)
12. Lusardi MM, **Fritz SL**, Middleton A**, Allison LK, Wingood 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*. 2017 Jan/Mar;40(1):1-36. (JIF: 1.889). **This Article received Excellence in Geriatric Research Award 2018 indicating best article in journal that year.**
13. 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; Mar 13:1-6. (JIF: 2.022).
14. 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. (JIF: 2.199)
15. 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. (JIF: 2.785)
16. DiPiro ND*, Embry A, **Fritz SL**‡, Middleton A*, Krause JS, Gregory CM. Effects of Aerobic Exercise Training on Fitness and Walking Related Outcomes in Ambulatory Individuals with Chronic Incomplete Spinal Cord Injury. *Spinal Cord. Spinal Cord*. 2015 Dec 2015. (JIF: 1.846)

17. Bailey LB*, Shanley E, Hawkings R, Beattie PF, **Fritz SL**, Kwartowitz D, Thigpen CA. Mechanisms of Shoulder Range of Motion Deficits in Asymptomatic Baseball Players. *The American Journal of Sports Medicine*. 2015 Nov;43(11):2783-93. (JIF: 4.517, # 3/74 in Orthopedics.)
18. 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*. August 2015. (JIF: 2.297)
19. Drenowatz C, Sui X, **Fritz SL**, Lavie CJ, Beattie PF, Church TS, Blair SN. The association between resistance exercise and cardiovascular disease risk in women. *Journal of Science and Medicine in Sport*. 2015 Nov;18(6):632-6. (JIF: 3.834)
20. Middleton A**, **Fritz SL**‡, Lusardi MM. Walking speed: The Functional Vital Sign. *Journal of Aging and Physical Activity*. 2015; 23(2), 314-22. (JIF: 2.785)
21. Middleton A**, **Fritz SL**, Liuzzo D**, Newman-Norlund R, Herter T. 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. (JIF: 1.568)
22. 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), 1454-1460. (JIF: 2.967)
23. Middleton A**; Merlo AM; 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 Nov-Dec;21(6):462-76. doi: 10.1310/tsr2106-462. (JIF: 1.702)
24. Cooley A*, Peters DM**, Vendemia J, Smith LP, Sweet RC, Baylis GC, Krotish D, **Fritz SL**, Rorden C. Pilot study on voxel-based lesion symptom mapping and motor impairment after stroke. *Neural Regeneration Research*. 2014; 9(7)766-772. (JIF: 0.205)
25. 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*. 2014 April; 30(3): 183-8. (JIF:2.151)
26. Sandler RD*, Sui X, Church TS, **Fritz SL**, Beattie PF, Blair SN. Are flexibility and muscle-strengthening activities associated with a higher risk of developing low back pain? *Journal of Science and Medicine in Sport*. 2014; 7: 361-365. (JIF: 3.834)
27. 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
28. Peters DM**, McPherson A**, Fletcher B**, McClenaghan B, **Fritz SL**‡. Counting Repetitions: An Observational Study of Video Game Play for People with Chronic Hemiparesis Post-Stroke. *Journal of Neurologic Physical Therapy*, 2013, 37 (105-111). (JIF: 2.711, #2/41 in Rehabilitation.)
29. **Fritz SL**‡, Peters DM**, Merlo AM**, Donley J. Active Video Gaming Effects on Balance and Mobility in Individuals with Chronic Stroke: A Randomized Control Trial. *Topics in Stroke Rehabilitation*. 2013, 20(3):218-225. (JIF: 1.702)
30. Merlo AM**, Goodman A, McClenaghan B, **Fritz SL**‡. Participants' perspectives on the feasibility of a novel, intensive, task-specific intervention for individuals with chronic stroke: a qualitative analysis. *Physical Therapy Journal*. 2013,93(2):147-57. (JIF: 3.786)
31. Peters DM**, **Fritz SL**‡, Krotish D. Assessing the Reliability and Validity of a Shorter Walk Test Compared to the 10 Meter Walk Test for Measurements of Gait Speed in Healthy, Older Adults. *Journal of Geriatric Physical Therapy*. 2013, 36(1):24-30. (JIF: 2.297)
32. **Fritz SL**‡, Peters DM**, Greene JV**. Measuring Walking Speed: Clinical Feasibility and Reliability. *Topics in Geriatric Rehabilitation*. 2012; 28 (2): 91-96. (JIF: 2.297)

33. **Fritz SL**†, Butts RJ**, Wolf SL. Constraint Induced Movement Therapy: From History to Plasticity. *Expert Review of Neurotherapeutics*. 2012, 12(2): 19-8. (JIF: 3.121)
34. deBode S, **Fritz SL**, Mathern G. Cerebral hemispherectomy: Sensory scores before and after Intensive Mobility Training. *Brain & Development*. 2012 Sep;34(8):625-3. (JIF:1.869)
35. **Fritz SL**†, Rivers ED**, Merlo AM**, Reed AD**, Mathern GW, de Bode S. Intensive Mobility Training Post Cerebral Hemispherectomy: Early Surgery Shows Best Functional Improvements. *European Journal of Physical Rehabilitation Medicine*. 2011; 47 (4): 569-77. (JIF: 2.194)
36. **Fritz SL**†, Merlo AM**, Rivers ED**, Peters DM**, Goodman A, Watson ET**, Carmichael BM**, McClenaghan BA. An Intensive Intervention for Improving Gait, Balance, and Mobility in Individuals with Chronic Incomplete Spinal Cord Injury: A Pilot Study of Activity Tolerance and Benefits. *Archives of Physical Medicine and Rehabilitation*. 2011, 92 (11): 1776-84. (JIF: 2.655)
37. Massie CL*, **Fritz SL**, Malcolm MP. Elbow Extension Predicts Motor Impairment and Performance Post-Stroke. *Rehabilitation Research and Practice*. Volume 2011.
38. **Fritz SL**†, Merlo AM**, Rivers ED**, Brandenburg B**, Sweet J**, Donley J, Mathews H, de Bode S, McClenaghan BA. Feasibility of Intensive Mobility Training as an Intervention for Improving Gait, Balance, and Mobility in Persons with Chronic Neurological Conditions: A Case Series. *Journal of Neurologic Physical Therapy*. 2011, 35(3):141-147. (JIF: 2.771)
39. McCarty D**, McClenaghan B, Blanck E, **Fritz SL**. Examining Dance Therapy as an Adjunct Therapy for Selected Measures of Postural Stability, Gait, and Sensory Processing for Children with Mild to Moderate Cerebral Palsy. *Journal of Student Physical Therapy Research*. 2010, 3 (1)1-13.
40. Goodman A*, Mensch JM, Jay M, French KE, Mitchell M, **Fritz SL**. Retention and attrition factors of female certified athletic trainers in the NCAA Division-I FBS setting. *Journal of Athletic Training*. 2010, 45(3) 287-98. (JIF: 2.935).
41. **Fritz SL**†, Blanton S, Uswatte G, Taub E, Wolf S. Minimal Detectable Change Scores for the Wolf Motor Function Test. *Neurorehabilitation and Neural Repair*. 2009, 23(7)662-7. (JIF: 4.836, #1/33 in Rehabilitation)
42. **Fritz SL**† & Lusardi M. White Paper: Walking Speed: the Sixth Vital Sign. *Journal of Geriatric Physical Therapy*. 2009, 32 (2):2-5. (JIF: 2.297)
43. deBode S, **Fritz SL**, Weir-Haynes K**, Mathern G. Constraint-Induced Movement Therapy for Children after Cerebral Hemispherectomy- Functional and Imaging Results: a Case Series. *Phys Ther*. 2009, 89(4):361-9. (JIF: 2.742)
44. Thigpen MT, Cauraugh J, Creel G, Day K, Flynn S, **Fritz SL**, Frost S, Respass R, Gardner-Smith P, Brack M, Behrman A. Adaptation of postural responses during different standing perturbation conditions in individuals with incomplete spinal cord injury. *Gait Posture* 2009;29(1):113-8. (JIF: 3.145)
45. Pickett TC, **Fritz SL**, Ketterson TU, Glueckauf RL, Davis SB, Malcolm MP, & Light KE. Telehealth and Constraint-Induced Movement Therapy: An Intensive Case Study Approach. *Clinical Gerontologist* 2007, 31(1):5-20. (JIF: 1.1.51)
46. **Fritz SL**†, Pittman AL, Robinson AC, Orton SC, Rivers ED. An Intense Mobility Intervention for Improving Gait, Balance, and Mobility for Individuals with Chronic Stroke. *Journal of Neurologic Physical Therapy* 2007; 31(2):71-6. (JIF: 2.045)
47. **Fritz SL**, George SZ, Wolf SL, Light KE. Participant Perception of Recovery as Criterion to Establish Importance of Improvement for Constraint-Induced Movement Therapy Outcome Measures: Results from a Preliminary Study. *Phys Ther* 2007; 87:170-178. (JIF: 2.498, #2/25 in Rehabilitation).
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51. **Fritz SL**, Chiu YP, Malcolm MP, Patterson TS, Light KE. Feasibility of Electromyography-Triggered Neuromuscular Stimulation as an Adjunct to Constraint-Induced Movement Therapy. *Phys Ther.* 2005; 85:428–442. (JIF: 2.498, #2/25 in Rehabilitation).
52. Kornetti D, **Fritz SL**, Chiu Y-P, Light KE, Velozo C. Rating Scale Analysis of the Berg Balance Test. *Arch Phys Med Rehabil.* 2004; 85:1128-35. (JIF: 2.391, #4/25 in Rehabilitation).

BOOK CHAPTERS

1. Woodbury M, **Fritz SL**, Blanton S, Wolf SL. Chapter 1: History and Development of CIMT in The Handbook of Pediatric Constraint-Induced Movement Therapy (P-CIMT): Translating Theory into Clinical Practice and Functional Occupations. American Occupational Therapy Association, Bethesda, MD. 2014.
2. **Fritz SL**. Balance, Coordination and Gait. Encyclopedia of Lifestyle Medicine and Health. Editor: James M. Rippe. Sage Publications, Inc. 2012.

RESEARCH PRESENTATIONS (& Published Abstracts)

1. Handlery R**, Fulk G, Pellegrini C, Stewart JC, Monroe C, **Fritz SL**. (2020). Walking characteristics in individuals with stroke differ based on walking speed, endurance and daily steps. American College of Sports Medicine’s Annual Meeting, San Francisco, CA. Poster Presentation.
2. Regan E**, Wilcox S, Stewart JC, Pearson JL, **Fritz SL**. (2020). Integrating Stroke Survivors into Cardiac Rehabilitation: Exploring Effectiveness, Feasibility, Physical Therapist Involvement and Policy Implications. Combined Sections Meeting of the APTA, Platform Presentation.
3. Handlery R**, **Fritz SL** (2019). Beyond Dichotomization: Quantifying Fall Risk Via Timed Up & Go & Post-Test Probability In Individuals With Chronic Stroke. World Confederation for Physical Therapy Congress, Geneva, Switzerland, Platform Presentation.
4. Handlery K, Lockhart O, Lewis AF, Kolar M, Blanck E, **Fritz SL**, Stewart JC. (2019). Applied principles of individualization during task-oriented arm training in individuals with chronic stroke: a case series. World Physical Therapy Conference, Geneva, Switzerland, Platform Presentation.
5. Regan E**, **Fritz SL**. (2019), The Six Minute Walk Test as a Predictor for Fall Risk in Persons with Stroke. International Stroke Conference, Poster Presentation.
6. Handlery R**, Regan E**, **Fritz SL**, Handlery K. (2019). Together is better: a community-based exercise program for survivors of stroke & their care partners. Active Living Conference, Charleston, SC. Poster Presentation.
7. Handlery R**, Regan EW**, Behnke A**, Grogan M**, Floyd W**, Gibbs K**, Handlery K, **Fritz SL**. (2019). “It’s Better than the Waiting Room.” Exercising Together is Associated with Improved Social Support for Survivors of Stroke and Their Care Partners. Combined Sections Meeting of the APTA, Poster Presentation.
8. Handlery R**, Handlery K, Regan EW**, **Fritz SL**. (2019). Objective Assessment of Sedentary Behavior in Survivors of Stroke: A Systematic Review and Meta-Analysis. Combined Sections Meeting of the APTA, Poster Presentation.

9. Regan E**, Handlery R**, Beets M, **Fritz SL**. (2019). Are Aerobic Programs Similar to Cardiac Rehabilitation Beneficial for Stroke Survivors' Aerobic Capacity? A Systematic Review and Meta-Analysis. Combined Sections Meeting of the APTA, Poster Presentation.
10. **Fritz S**, DeWald J, Segal R. Expanding Movement and Rehabilitation Sciences in DPT programs in the US. Education Leader Conference. (Oct 2018). American Physical Therapy Association. Session Talk.
11. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, **Fritz SL**, Den Ouden DB, Stewart JC. (May 2018). The Effect of Exercise Intensity on the Kinematics of Reach Performance and Brain-Derived Neurotrophic Factor, American College of Sports Medicine, Poster Presentation.
12. Stewart JC, Baird J, Foster A, **Fritz SL**, Fridriksson J. (February 2018). Targeted engagement of the premotor component of the motor network after stroke. International Stroke Conference, Poster Presentation.
13. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, **Fritz SL**, Den Ouden DB, Stewart JC. (February 2018). Exercise intensity affects the kinematic approach used to improve performance of a 3-dimensional target task. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Poster Presentation.
14. Liuzzo DM**, Plummer P, Stewart JC, **Fritz SL**. (February 2018). Chronological age and functional measurements predict dual task cost for postural sway while using a bimanual task in healthy adults across all ages. Combined Sections Meeting of the APTA, Poster Presentation.
15. Gunn L*, Magnuson J*, Iglowski N*, Morgan B*, Stewart J, **Fritz SL**, Arnot C. (February 2018). Instrumented-assisted soft tissue mobilization and proprioceptive neuromuscular facilitation techniques improve hamstring flexibility better than static stretching. Combined Sections Meeting of the APTA, Poster Presentation.
16. Handlery R**, Handlery K, Culbertson R**, Rivers C**, Zaring L**, Nester S**, **Fritz SL**. (February 2018) Less Talk, More Motion: Partnering to Provide Physical Activity to Individuals with Neurologic Disability and their Caregivers. Combined Sections Meeting of the APTA, Poster Presentation.
17. Culbertson R*, Arnot C, Fitz-Maurice S*, Handlery K*, Johnson A*, Malcom J*, **Fritz SL**, Herter TM, Liuzzo DM**, Mathews HW (February 2018). KinesioTape® Has No Effect on Shoulder Proprioception, Movement Control, or Strength When Using Robotic Assessment. Combined Sections Meeting of the APTA, Poster Presentation.
18. Mathews HW, Kears M*, Wilson AW*, McGowan M, **Fritz SL**. (February 2018). Comparing the Reliability of the Tekscan A201 Sensor and Precise Gauge Sub-bandage Pressure Monitors: A Technical Report. Combined Sections Meeting of the APTA, Poster Presentation.
19. Stewart JC, Handlery K, Blanck E, Baird J, Pathak G, **Fritz, SL**. (February 2017). Targeted engagement of premotor cortex during task-oriented training after stroke: a case series. Combined Sections Meeting of the APTA, San Antonio TX. Platform Presentation.
20. Heath AE, **Fritz SL**, Mahoney E, Brown T, Middleton A. (October 2017) Demographic and Admission Predictors of Students Who Had Difficulty in Entry Level DPT Programs. Education Leadership Conference, Columbus, OH. Platform Presentation.
21. Bosch P, **Fritz SL**. (October 2017). Long-Bout High-Intensity Interval Training is Feasible After a Stroke. ACRM 94th Annual Conference. Atlanta, GA.. Platform Presentation.
22. **Fritz SL**, Handlery RA**, Hainline G**, Miller S**, McManus A**, Keown J**, Horn C**, Burke A**, Purcell M**, Liuzzo D**, Stewart J. (July 2017). Taking the NExT Step in Promoting Exercise After Stroke: A Community-Based Gym for Survivors of Stroke. World PT Conference, Cape Town South Africa. Platform Presentation.
23. Regan E**, Merlo A, **Fritz SL**. Determine Responders vs. Non Responders using the Six-Minute Walk Test to Measure Endurance after Intensive Therapy for Individuals with Post-Stroke Limitations. World PT Conference, Cape Town South Africa. July 2017. Poster Presentation.

24. Lonnenman M** **Fritz SL**. (April 2017). The development of an online stroke resource for stroke survivors, TIPPS: Tools & Inventions for/from People Post-Stroke. Discover USC, Columbia, SC. Platform Presentation.
25. Rizor EJ, Fridriksson J, Rorden C, Bonilha L, Yourganov G, Peters DM, **Fritz SL**, Stewart JC. (Nov 2017). Functional neural correlates of hand motor function differ based on level of motor severity in individuals post-stroke. Society for Neuroscience Abstracts, 62.07. Poster Presentation.
26. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, **Fritz SL**, Den Ouden DB, Stewart JC. (Nov 2017). The effect of energy-matched exercise intensity on brain-derived neurotrophic factor and motor learning. Society for Neuroscience Abstracts, 593.12. Poster Presentation.
27. Yazdani S, Yourganov G, Fridriksson J, **Fritz SL**, Stewart JC, Herter TM. (Nov 2017). Cortical damage and disconnection independently contribute to stroke-induced deficits in limb-motor control and motor-task performance. Society for Neuroscience Abstracts, 62.01. Poster Presentation.
28. Liuzzo DM**[†], Plummer P, Stewart JC, **Fritz SL**. Functional Reach, Experience with Dual Task Situations, and Age are Weak Predictors of Walking Speed while Performing a Bimanual Task in Healthy Adults. Journal of Geriatric Physical Therapy. January, 2017 and Poster Presentation.
29. **Fritz SL**, Handlery RA**[†], Hainline G**[†], Miller S**[†], McManus A**[†], Liuzzo D**[†], Stewart J. The NEXt Step in Promoting Physical Activity After Stroke: A Community-Based Gym for Survivors of Stroke. Journal of Neurologic Physical Therapy. January 2017 and Poster Presentation.
30. **Fritz SL**, Lusardi MM Walking Speed: The Essential Functional Vital Sign, South Carolina Physical Therapy Association Annual Conference; Charleston, SC, May 2016.
31. Gunn B**[†], Middleton A, **Fritz SL**. Select clinical measures for strength and mobility do not predict daily ambulatory activity in community-dwelling adults. Presented at Graduate Student Day, University of South Carolina. April 2016. Poster Presentation.
32. Gunn B**[†], Middleton A, **Fritz SL**. Select clinical measures for strength and mobility do not predict daily ambulatory activity in community-dwelling adults. Presented at 12th Annual Aging Day Conference; Charleston, South Carolina: February 2016. Poster Presentation.
33. Middleton JA**[†], 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. American Physical Therapy Association Combined Sections Meeting, 2016. Poster Presentation.
34. Peters D**[†], **Fritz SL**, Stewart JC, Richardson JD, Middleton JA, 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. American Physical Therapy Association Combined Sections Meeting, 2016. Poster Presentation.
35. Liuzzo, D**[†], Stewart J, **Fritz SL**. Walking Speed during the Six Minute Walk Test Should Not Be Used as a Surrogate for Self-Selected or Fast Walking Speed in Individuals with Chronic Stroke. American Physical Therapy Association Combined Sections Meeting, 2016. Poster Presentation.
36. Herter TM, Fuss K*, Singh T, Perry CM*, Goins K*, Marebwa B*, Fridriksson J, **Fritz SL**, Herter TM. Visuomotor learning is attenuated by impairments of visual search following stroke. Society for Neuroscience, 2015. Poster Presentation.
37. 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, June 2015. Poster Presentaton.
38. Singh T, Perry CM*, Ross A*, Fridriksson J, **Fritz SL**, Herter TM. Deficits in visual search following stroke contribute to impaired visuomotor processing and executive function. Society for Neuroscience, 2015. Poster Presentation.
39. Tryon S, Spead O*, Middleton JA**[†], 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, 2015. Poster Presentation.

40. 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. Poster Presentation.
41. 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. American Physical Therapy Association Combined Sections Meeting; Indianapolis, IN. February 2015. Poster Presentation.
42. 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. Poster Presentation.
43. Lusardi MM, Allison LK, Bell A, Chui K, **Fritz SL**, Middleton A**, Renfro MO, Philips E, Wingood M. GeriEDGE-2: Fall Risk Assessment and Outcome Measures Recommendations. American Physical Therapy Association Combined Sections Meeting; Indianapolis, IN: February 2015.
44. 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. Presented at South Carolina chapter of the American Physical Therapy Association Annual Meeting; Charleston, SC: March 2014. Poster Presentation.
45. **Fritz SL**, Middleton A**, Merlo A**, Peters DM**, 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. Platform Presentation.
46. 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. Presented at American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014.
47. **Fritz SL**, Chui K, Lusardi M, Wing K, Hillegas E, Stevens-Lapsley J. Walking Speed: A Vital Sign and Even More. Symposium Presentation at Combined Sections Meeting, Las Vegas, NV; February, 2014.
48. Middleton A**, Peters DM**, 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. Poster Presentation.
49. Liuzzo D**, Greene J**, Peter DM**, Middleton JA**, 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. Poster Presentation.
50. Merlo A**, **Fritz SL**. The value of mixed methods: Lessons learned through intervention research in individuals with chronic stroke. American Physical Therapy Association Combined Sections Meeting; Las Vegas, NV: February 2014. Poster Presentation.
51. 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. Presented at Aging Research Day: Aging and Technology: Columbia, SC, January 2014. Poster Presentation.
52. Merlo A, **Fritz SL**. The value of mixed methods: Lessons learned through intervention research in individuals with chronic stroke. ACRM; Orlando, FL; November 2013. Symposium.
53. Middleton A**, Liuzzo D**, Newman-Norlund R, **Fritz SL**, Herter T. 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. Poster Presentation.

54. Middleton A**, Liuzzo D**, Newman-Norlund R, **Fritz SL**, Herter T. 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. Poster Presentation.
55. Middleton A**, Liuzzo D**, Herter T, Newman-Norlund R, **Fritz SL**. Improving Post-Stroke Upper Extremity Outcomes using Transcranial Direct Current Stimulation. South Carolina Physical Therapy Association Annual Meeting; Myrtle Beach, SC. May 2013. Poster Presentation.
56. Middleton A**, Liuzzo D**, Herter T, Newman-Norlund R, **Fritz SL**. Improving Post-Stroke Upper Extremity Outcomes using Transcranial Direct Current Stimulation. Graduate Student Day; University of South Carolina, Columbia, SC. April 2013, Poster Presentation.
57. Liuzzo D**, **Fritz SL**. Reliability of Nintendo Wii Fit Balance Board for Measuring Mediolateral Sway in Geriatric and Stroke Populations. Presented at Combined Sections Meeting, San Diego: Jan, 2013. Platform Presentation.
58. Middleton A**, **Fritz SL**. Active Video Gaming Effects on Balance and Mobility in Individuals with Chronic Stroke: A Randomized Control Trial. Presented at Combined Sections Meeting, San Diego: Jan, 2013. Platform Presentation.
59. Peters D**, **Fritz SL**. Active Video Gaming Effects on Balance in Individuals with Chronic Stroke: A Randomized Control Trial. Presented at Games for Health Conference, Boston, MA: June, 2012. Platform Presentation.
60. Light K, **Fritz SL**, Malcolm, MP. Changes in cutaneous sensation with Constraint-Induced Movement Therapy. Presented at World Congress for NeuroRehabilitation, Melbourne, Australia; May, 2012. Poster Presentation.
61. **Fritz SL**, Chui K, Lusardi M, Stevens-Lapsley J, Brewer K, Lynskey J, Bidelspach D. Walking Speed: A Vital Sign and Even More. Symposium Presentation at Combined Sections Meeting, Chicago, IL; February, 2012. **Symposium.**
62. Merlo A**, Goodman A, McClenaghan BK, **Fritz SL**. Patients Perspectives on the Benefits Associated with an Intensive, Task-Specific Intervention for Gait, Balance, and Mobility in Individuals with Chronic Stroke. Presented at Combined Sections Meeting, Chicago, IL. February, 2012. Poster Presentation.
63. **Fritz SL**, Dombek MK. Active Gaming for Balance Improvement in Post-Stroke and Functional Older Adults at Gerontological Society of America, Boston, MA November 2011. **Symposium.**
64. **Fritz SL**, Chui K, Lusardi M, Pohl P. Walking in Later Life: Current "Best Evidence" for Clinical Practice Presentation at Gerontological Society of America, Boston, MA November 2011. **Symposium.**
65. Greene JV**, Hooker SP, Fritz SL, Friedman, DB. Strike Out Second Stroke (SOS2): Development of a Physical Activity Program for African American Stroke Survivors and Caregivers. James E. Clyburn Health Disparities Lecture Series. Health Equity in the 21st Century: Saving the Next Generation. April 2011
66. Greene JV**, Fritz SL, Peters DM**, Merlo AR**. Body Weight-Supported Treadmill Training to Improve Overground Gait Speed. 7Th Annual Aging Research Day. Columbia, SC. Feb 2011
67. Robinson K, Gaines L, Brumels K, Motl RW, **Fritz SL**, Dunn M. Balance Rehabilitation in Multiple Sclerosis: A Preliminary Comparison of Conventional Training with Nintendo® Wii Fit™ Game Play. 1st International Symposium on Gait and Balance in Multiple Sclerosis: Gait and Balance as Biomarkers. Oregon Health & Science University in Portland, Oregon. September 2011.
68. **Fritz SL**, Duncan P. Assessing Walking Speed as the Vital Sign for Function. 16th International World Confederation of Physical Therapy Congress, Amsterdam, Netherlands, June 2011, **Satellite Session Presentation.**
69. Merlo A**, **Fritz SL**, Goodman A, McClenaghan BK, Jay MK. Patients Perspectives on the Feasibility of an Intensive, Task-Specific Intervention for Chronic Stroke. Presented at Combined Sections Meeting, New Orleans, LA. February, 2011. Poster Presentation.

70. Peters D**, **Fritz SL**, Merlo A**, Rivers ED**. Examining the Effects of Wii and Playstation Game Play on Dynamic Gait and Symmetrical Weight-Bearing in Individuals with Chronic Stroke: A Preliminary Study. Presented at Combined Sections Meeting, New Orleans, LA. February, 2011. Poster Presentation.
71. Chiu Y-P, Davis SB, **Fritz SL**, Light KE, Wen P-S, Teitelbaum O, Teitelbaum P. Effect of Constraint Induced Movement Therapy on Quality of Movement in People with Stroke. Presented at Combined Sections Meeting, New Orleans, LA. February, 2011. Poster Presentation.
72. Kostek M, **Fritz SL**, Moreau N. Neural Rehabilitation: from Molecule to Muscle to Man. Symposium Presentation, Southeastern ACSM, Greenville, SC. February, 2010. **Symposium**.
73. **Fritz SL**, Chui K, Duncan P, Hillegass E, Lusardi M, Purser J, Stevens-Lapsley J, Wing K. Assessing Walking Speed as the 6th Vital Sign. Symposium Presentation at Combined Sections Meeting, San Diego, CA. February, 2010. **Symposium**.
74. **Fritz SL**, Duncan BM**, Rivers ED**, Merlo AR**, Goodman A. The Effects of Intensive Mobility Training including Locomotor Training on Balance in Individuals with Incomplete Spinal Cord Injury. Presented at Combined Sections Meeting, San Diego, CA. February, 2010. Platform Presentation.
75. Chiu Y-P, Davis SB, **Fritz SL**, Light KE, Wen P-S, Teitelbaum O, Teitelbaum P. Quality of Movement in People with Stroke: Clinical Application of the Essential Movement Component Evaluation. Presented at Combined Sections Meeting, San Diego, CA. February, 2010. Poster Presentation.
76. **Fritz SL**, Rivers ED**, Merlo AR**. Lower-Functioning Participants with Post-Stroke Hemiparesis Show Greater Improvements with an Intensive, High-Dose, Mobility Training than Higher-Functioning Participants. Presented at Combined Sections Meeting, San Diego, CA. February, 2010. Poster Presentation.
77. **Fritz SL**, Rivers ED**, Merlo AR**, Duncan BM**. Examining the Effects of Commercially Available Video Game Systems, The Nintendo Wii and Sony Playstation 2, on Balance and Mobility in Individuals with Chronic Stroke. Presented at Combined Sections Meeting, San Diego, CA. February, 2010. Poster Presentation.
78. Chiu Y-P, Davis SB, Wen P-S, **Fritz SL**, Light KE, Teitelbaum P. Development and Reliability of Essential Movement-Component Evaluation: An Alternative Clinical Method to Analyze Movement in People with Stroke. *Stroke* Abstract. Published online Feb 16, 2009.
79. Willis TG**, **Fritz SL**, Williams H, Blanck E. Examining the Reliability of a Clinical Balance Assessment Tool Based on Clinician's Perceptions of the Global Balance Rating Scale. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Platform Presentation.
80. Watson E**, **Fritz SL**, Merlo AR**, Rivers ED**. Intensive Mobility Training: An intensive approach to chronic neurological rehabilitation. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
81. **Fritz SL**, Merlo AR**, Rivers ED**, Brandenburg B**, Sweet JK**, Galloway D**, deBode S. Intensive Mobility Training in Individuals with Chronic Neurological Injuries: A Case Series. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
82. Rivers ED**, **Fritz SL**, Merlo AR**, Hionis E**. Examining Potential Effects of Upper Extremity CIMT on Balance, Mobility, and Gait in Individuals with Chronic Stroke. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
83. Reed A**, **Fritz SL**, River ED**, Merlo AR**, deBode S, Mathern G. The Effects of Intensive Mobility Training (IMT) on Chronic Gait, Mobility and Balance Disabilities in Children Following Hemispherectomy. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
84. Chiu Y-P, Davis SB, Wen P-S, **Fritz SL**, Light KE, Teitelbaum O, Teitelbaum P. Reliability of Essential Movement-Component Evaluation. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.

85. Mathews H, Canfield J*, Beattie P, **Fritz SL**, Addy C. Comparison of the Diagnostic Accuracy of Dynamic Versus Isometric Hand Held Dynamometry in the Assessment of Quadriceps Muscle Strength in Persons With and Without Suspected Unilateral Lower Extremity Dysfunction. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
86. Mathews H, Akins L*, **Fritz SL**, Drane W. Perceived Differences in the Sensation of Pulsed and Sham Ultrasound at the Carpal Tunnel in Normal Subjects. Presented at Combined Sections Meeting, Las Vegas, NV. February, 2009. Poster Presentation.
87. Chiu Y-P, **Fritz SL**, Wen P-S, Davis SB, Light KE, Teitelbaum O, Teitelbaum P. Development and reliability of Essential Movement-Component Evaluation: an alternative clinical method to analyze movement in people with stroke. International Stroke Conference, American Heart/Stroke Association, San Diego, CA, February 2009
88. Conder, JA, **Fritz SL**, Krotish DE, Baylis GC (2008). Neural effects of mobility training in stroke patients. Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, March 2008.
89. Goodman A*, Mensch JM, Jay M, French KE, Mitchell M, **Fritz SL**. Retention and Attrition Factors of Female Certified Athletic Trainers in the National Collegiate Athletic Association Division-I Football Bowl Subdivision Setting. Presented at the Athletic Trainers' Association 59th Annual Meeting and Clinical Symposia; St. Louis, MO. June 2008. Poster Presentation.
90. **Fritz SL**, Merlo AR**, Rivers ED**, Watson E**. Intensive Mobility Training as an Intervention for Individuals With Incomplete Spinal Cord Injury: A Pilot Study. Presented at Physical Therapy 2008: Annual Conference & Exposition of the American Physical Therapy Association, San Antonio, TX. June 2008. Platform Presentation.
91. **Fritz SL**, Merlo AR**, Rivers ED**. Intensive Mobility Training for an Individual with Incomplete Spinal Cord Injury: A Case Study. Presented at the Second Scientific Conference of the South Carolina Spinal Cord Injury Research Fund, Charleston, SC. May, 2008. Poster Presentation.
92. Rivers ED**, Pittman AL**, Robinson AC**, Orton SC**, **Fritz SL**. Examining the Efficacy and Feasibility of an Intense Mobility Intervention in Individuals with Chronic Stroke: A Pilot Study. University of South Carolina Graduate Student Day. April 2008. Poster Presentation.
93. Duncan B**, River ED**, Merlo A**, **Fritz SL**. The Effect of Intensive Mobility Training Booster Session in an Individual with Chronic Spinal Cord Injury. University of South Carolina Graduate Student Day. April 2008. Platform Presentation.
94. **Fritz SL**, Pittman AL**, Robinson AC**, Orton SC**, Rivers ED**. An Intense Mobility Intervention for Improving Gait, Balance, and Mobility for Individuals with Chronic Stroke. Presented at Combined Sections Meeting, Nashville, TN. February, 2008. Poster Presentation.
95. **Fritz SL**, Merlo AR**, Rivers ED**. Intensive Mobility Training for an Individual with Incomplete Spinal Cord Injury: A Case Study. Presented at Combined Sections Meeting, Nashville, TN. February, 2008. Poster Presentation.
96. Davis SB, Chiu Y-P, Richards LG, **Fritz SL**. Quality of life changes by individual domains of the Stroke Impact Scale following Constraint Induced Movement Therapy. Presented at Combined Sections Meeting, Nashville, TN. February, 2008. Poster Presentation.
97. Sweet J**, River ED**, **Fritz SL**. Effects of Intensive Mobility Training on an Individual with Parkinson's Disease. Presented at Combined Sections Meeting, Nashville, TN. February, 2008. Poster Presentation.
98. Chiu Y-P, Davis SB, **Fritz SL**, Light KE, Behrman AL, Teitelbaum O, Teitelbaum P. An alternative clinical method to analyze a complex movement task in the Wolf Motor Function Test. Presented at Combined Sections Meeting, Nashville, TN. February, 2008. Poster Presentation.
99. Davis SB, Chiu Y-P, Richards LG, **Fritz SL**. Effect of Constraint-Induced Movement Therapy on health related quality of life. 15th International World Confederation for Physical Therapy Congress, Vancouver, Canada, June 2007. Poster Presentation.
100. Chiu Y-P, Davis SB, Richards LG, **Fritz SL**, Light KE. Immediate effect of Constraint-Induced Movement Therapy on quality of life as measured by specific domains of the Stroke

- Impact Scale. Annual Conference, American Physical Therapy Association, Denver, CO, June 2007. Poster Presentation.
101. Davis B, **Fritz SL**, Gelsone L, Mathern G, de Bode S. Expansion of Cortical Motor Representations Following Therapy in Individuals Post Hemispherectomy. Organization for Human Brain Mapping Annual Meeting, June 2007, Chicago, IL. Poster Presentation.
 102. **Fritz SL**, Pittman A**, Caniff S**, Robinson A**, Rivers ED**. An Intense Mobility Intervention for Improving Gait, Balance and Mobility for Individuals with Chronic Stroke: A Pilot Study. MUSC/ USC-PH / Clemson/ GHS Aging Research Day, April 13, 2007. Columbia Metropolitan Convention Center. Platform Presentation.
 103. Sweet J**, River ED**, **Fritz SL**. Effects of Intensive Mobility Training on an Individual with Parkinson's Disease. University of South Carolina Graduate Student Day. April 2007. Poster Presentation.
 104. Dureska M**, **Fritz SL**, Blanck E, Williams H, Lamar S. Beginning Ballet as an Intervention for Gait, Balance & Mobility in an Individual with Post-Stroke Hemiparesis: A Case Report. MUSC/ USC-PH / Clemson/ GHS Aging Research Day, April 13, 2007. Columbia Metropolitan Convention Center. Poster Presentation.
 105. Geddens R**, Beattie P, Mathews H, **Fritz SL**, Acker K. Comparison of the PEDro and van Tulder Scales in Rating Quality of Research Evidence. Carolina Consortium Meeting, March 2006. Charleston, SC. Poster Presentation.
 106. **Fritz SL**, Light KE, Patterson T, Behrman A, Davis S. Functional Predictors of Outcomes following Constraint Induced Movement Therapy (CIMT) for Individuals with Post-stroke Hemiparesis. Combined Sections Meeting 2006, San Diego, CA. Poster Presentation.
 107. Chiu YP, Davis SB, **Fritz SL**, Malcolm MP, Lin S-Y, Light KE, Behrman AL. Long-term changes of health-related quality of life in individuals post-stroke who received Constraint Induced Movement Therapy in conjunction with Donepezil and r-Transcranial Magnetic Stimulation (r-TMS). Physical Therapy 2006: Annual Conference & Exposition of the American Physical Therapy Association, Orlando, June 2006. Poster Presentation.
 108. Chiu YP, **Fritz SL**, Light KE, Behrman A, Lin SY, Teitelbaum O, Teitelbaum P. The Invariant Features of Reaching Movement in Older Adults with Stroke: An Application of Eshkol-Wachman Movement Notation. J Am Geriatr Soc. Abstract. 2005;53(4):S120. Presented at American Geriatric Society Meeting. July, 2005. Poster Presentation.
 109. **Fritz SL**, Light KE, Patterson T. Descriptive Predictors of Outcomes following Constraint Induced Movement Therapy (CIMT) for Individuals with Post-stroke Hemiparesis. Presented at Combined Sections Meeting, New Orleans. February, 2005. Poster Presentation.
 110. Khandekar G, Malcolm MP, Triggs W, **Fritz SL**, Light KE. Modulation of the Muscles Representations in the Primary Motor Cortex Following Constraint Induced Movement Therapy. University of Florida College of Public Health and Health Professions Research Day. April, 2004. Poster Presentation.
 111. Limaye S, Light KE, **Fritz SL**, Patterson TS. Changes in Prehension with Constraint-Induced Movement Therapy in Adults Following Unilateral Stroke. University of Florida College of Public Health and Health Professions Research Day. April, 2004. Poster Presentation.
 112. **Fritz SL**, Patterson T, Malcolm MP, Light KE. Descriptive Predictors of Outcomes for Constraint Induced Movement Therapy (CIMT): A Pilot Study. Presented at Combined Sections Meeting, Nashville, TN. February, 2004. Poster Presentation. Pickett TC, **Fritz SL**, Ketterson TU, Malcolm MP, Davis SB, Light KE, Glueckauf RL, & Nadeau SE. Telehealth and Constraint-Induced Movement Therapy: A Case Study Design. Presented at the International Conference on Aging, Disability and Independence (ICADI). Washington DC. December, 2003. Poster Presentation.
 114. Pickett TC, **Fritz SL**, Ketterson TU, Malcolm MP, Davis SB, Glueckauf RL, Light KE, Nadeau S. Telehealth and Constraint-Induced Movement Therapy (CIMT): A Case-study design. Presented at UF Brooks Center for Rehabilitation Studies Grand Opening. September, 2003. Poster Presentation.

115. Chiu YP, **Fritz SL**, Kornetti D, Light KE, Velozo C. Item Analysis of the Dynamic Gait Index in Community Dwelling Older Adults. Presented at World Physical Therapy Conference, Barcelona, Spain. July, 2003. Poster Presentation.
116. **Fritz SL**, Patterson T, Malcolm M, Chiu Y, Light K. Constraint Induced Movement Therapy with Electromyography-Triggered Neuromuscular Stimulation: A Case Study. University of Florida College of Health Professions Research Day. April, 2003. Poster Presentation.
117. Malcolm M, **Fritz SL**, Patterson T, Light K, Triggs W. Activity Dependent Plasticity in Survivors of Stroke. University of Florida College of Health Professions Research Day. April, 2003. Poster Presentation.
118. Patterson T, **Fritz SL**, Malcolm M, Chiu P, Light K. Constraint Induced Movement Therapy: A Comparison of On-site Therapy Versus Home Therapy. University of Florida College of Health Professions Research Day. April, 2003. Poster Presentation.
119. Kornetti D, **Fritz SL**, Chiu Y-P, Light KE, Velozo C. Functional Interpretation of the Berg Balance Test Using the Rasch Measurement Model. Presented at Combined Sections Meeting, Tampa, FL. February, 2003. Platform Presentation.
120. **Fritz SL**, Patterson T, Malcolm M, Chiu Y-P, Light KE. EMG Triggered Neuromuscular Stimulation as an Adjunct to CIMT: A Case Study. Presented at Combined Sections Meeting, Tampa, FL. February, 2003. Poster Presentation.
121. **Fritz SL**, Phadke C, Light KE. Apraxia and CIMT: Are They a Match? Presented at International Stroke Symposium. Kansas City, MO. April, 2002. Poster Presentation.
122. Malcolm M, Chiu YP, **Fritz SL**, Light KE. Constraint Induced Movement Therapy in subacute stroke survivors. Presented at VA National Rehabilitation Research Conference, Arlington, VA. February, 2002. Poster Presentation.
123. **Fritz SL**, Kornetti D, Prietto-Lewis N, Light KE. Use of the Timed Up and Go as a screening tool for prediction of falls and its correlation with the Dynamic Gait Index and Berg Balance Test in the geriatric population. Presented at APTA Combined Section Meeting, Boston, MA. February, 2002. Poster Presentation.
124. Flynn S, Thigpen M, **Fritz SL**, Behrman A, Thompson F. Locomotor training improves recovery of walking following contusion injury in adult rat. Presented at APTA Combined Section Meeting, Boston, MA. February, 2002. Poster Presentation.
125. Flynn S, **Fritz SL**, Thigpen M, Behrman A, Thompson F. Activity-dependent Neuroplasticity following locomotor training in the spinal cord injured adult rat. Functional recovery after spinal cord injury. Monte Verita, Ascona, Switzerland. May, 2001. Platform Presentation.
126. Flynn S, **Fritz SL**, Thigpen M, Behrman A, Thompson F. Recovery of Locomotor Function following Incomplete Spinal Cord Injury in the Adult Rat. 30th Annual Society for Neuroscience Program. p 133, Nov. Presented at International Neuroscience Conference. November, 2000. Poster Presentation.
127. **Fritz SL**, Saunders D, Flynn S, Light K, Behrman A. Effects of Various Arm Swing Conditions on Step-Length During Constant Speed Treadmill Walking: A Pilot Study. Presented at the University of Florida Graduate Student Forum. April, 2000. Poster Presentation.

INVITED PRESENTATIONS AND LECTURES

International:

1. *Physical Activity for the Older Adult with Dementia*, Borommarajonani College of Nursing Khonkaen, Thailand. June 2018.
2. *Intensity of Physiotherapy Practice for Neurological Rehabilitation*; Physiotherapy Department, Nanawati Hospital, Mumbai, India. July 2009
3. *Importance of Intensity in Stroke Rehabilitation*. Physiotherapy College Raipur, India. July 2009

4. *Importance of Intensity & Evaluation in Stroke Rehabilitation*. Srinivas College of Physiotherapy, Mangalore, India. July 2009.
5. *Constraint-Induced Movement Therapy and Locomotor Training, from Plasticity to Function*. Department of Neuroscience- Universiteit Utrecht; Utrecht, Holland. October 2007.
6. *Constraint-Induced Movement Therapy and Locomotor Training, from Theory to Application*. Physical Therapy Program. Hogeschool Utrecht College; Utrecht, Holland. October 2007.

National:

7. American Academy of Manipulative Therapy Fellowship in Orthopaedic Manual Physical Therapy. *Clinical Research Design and Methodology*. Columbia, SC, June 2014.
8. American Academy of Manipulative Therapy Fellowship in Orthopaedic Manual Physical Therapy. *Grant Writing and Publication*. Columbia, SC, June 2014.
9. TWU Institute of Health Sciences, Annual Research Conference: Keynote address. *Walking Speed: simple measurement, wealth of information*. Dallas, TX. April 2014
10. 5th Biennial Stroke Conference, "Technology: The Changing Landscape of Stroke Care." *Active Video- Gaming in Stroke Rehabilitation- The Evidence*. Asheville, NC. September 2012.
11. Ohio Physical Therapy Association Continuing Education. *Intensity & Assessment in Rehabilitation: Focus on the Geriatric Neurological Client*. Columbus, OH. September 2012.
12. Autumn Rehab Annual Meeting- 2011: *The Evidence for Active Gaming in Stroke Rehabilitation*. Myrtle Beach, SC. September 2011.
13. *Utilization of Video Gaming and Brain Function: A Researcher's Perspective*. National Athletic Trainers Association, National Meeting, *Feature Presentation*, San Antonio. June 2009.
14. *Are We Underdosing our Patients?* Colorado State University, Occupational Therapy Department, Spring Research Seminar, *Keynote Speaker*. April 2009.
15. *Emerging Science in the Diagnosis and Treatment of Stroke: Motor Recovery and Future Issues and Research*. American Stroke Association Satellite Broadcast. February 2002.

State:

16. Google Employee Health Forum, *Physical Activity for Prevention, Physical Therapy for Health Promotion*. Charleston, SC, October 2018.
17. South Carolina Aging Research Network (SCARN). *Physical Activity for the Older Adult*. Aging Research Day, Columbia, SC April 2017
18. Ever Changing and Evolving: Medical Surgical Specialties Annual Symposium. *Walking Speed: The Vital Sign for Function*. Columbia, SC. November 2012.
19. South Carolina American Physical Therapy Association Annual Conference. *Intensive Mobility Training and Functional Assessment Post Stroke*. Greenville, SC, April 2012.
20. Rehabilitation for the Neurologically and Cognitively Involved Patient. *Understanding Intensity and its link to Plasticity*. HealthSouth Hospital, Columbia, SC. December 2011
21. Eastern Regional Stroke Conference- 2011: *Current Perspectives and Recent Innovations. Video Games and Stroke Rehab: The Evidence*. Greenville, NC. April 2011.
22. Aging Research Day: Aging and Mobility. South Carolina Aging Research Network. *Gait Speed: The Sixth Vital Sign*. Columbia, SC. February 2011.
23. EngenuitySC Science Café. *Virtual Environment Rehabilitation- Possibilities of the Wii*. Columbia, SC. June 2010.
24. *Understanding Evaluation and Intensity in Stroke Rehabilitation*. South Carolina Physical Therapy Association Annual Conference. April 2010.
25. *Walking Speed: The 6th Vital Sign*. Palmetto Health Richland, Geriatric Conference. April 2010.
26. *Intensive Mobility Training: a Hybrid of CIMT and LT*. Chatham University, Pittsburg, PA. March 2008

27. *CIMT, Clinical Application*. Medical University of South Carolina, Department of Occupational Therapy; Charleston, SC. June 2005.
28. *Constraint Induced Therapy, Applications and Benefits*. North Central Florida Physical Therapy Sub District Meeting; Gainesville, FL. June 2002.
29. *CIMT for Stroke Rehabilitation*. Florida Physical Therapy Association Annual Meeting; Orlando, FL. May 2002.
30. *Research as a Physical Therapist, CIMT as a Model*. University of North Florida, Dept of Physical Therapy, Research Methods Class; Jacksonville, FL. February 2001, 2003
31. *Motor Cortex Plasticity: The Role of Intensive Therapy*. Brooks Rehabilitation Hospital; Jacksonville, FL. January 2002
32. *Requirements for Participation in the Therapy Trials*; Stroke Support Group, Ocala, FL. January 2002.

University/ Local:

33. Behavioral-Biomedical Interface Program Student Seminar on Presenting research. February 2019
34. Behavioral-Biomedical Interface Program Student Seminar on Publishing issues: journal selection, writing tips, submission, and ethics. October 2017
35. University of South Carolina, Exercise Science Clinical Research Group, *Intensive Mobility Training Post Chronic Neurological Insult*. Columbia, SC. November 2014
36. University of South Carolina, Exercise Science 755, *Research using controlled Trials. Intensity in Rehab Trials for those with Chronic Stroke*. Columbia, SC. November 2014
37. University of South Carolina, Exercise Science 755, *Research using controlled Trials. Intensity in Rehab Trials*. Columbia, SC. September 2013
38. South Carolina Clinical and Translational Research Institute: Spring Scientific Retreat. *Feasibility of Intensive Interventions in Stroke*. Charleston, SC. February 2011.
39. *Are we Underdosing our Patients?* University of South Carolina, Neurogenics Graduate Program in Speech-Language Pathology. September 2009.
40. *Introduction to Research in Rehabilitation Lab*; Undergraduate Research Program, University of South Carolina. September 2009.
41. *The Use of Commercially Available Video Gaming in Rehabilitation*. University of South Carolina, Exercise Science, Seminar Series. March 2009.
42. *Intensive Mobility Training: Pilot Results from Intensive Therapy*. Dorn VA Medical Center, Grand Rounds. July 2008
43. *Neuroplasticity*. HealthSouth Rehabilitation Hospital: Rehabilitation Approaches for the 21st Century. May 2008.
44. *Intensive Training: Application to Speech Therapy*. University of South Carolina, Neurogenics Graduate Program in Speech-Language Pathology. March 2008.
45. *Intensive Mobility Training, an Intervention for Individuals with Neurologic Impairments and Disabilities*, SCAPTA Midlands District Meeting. Columbia, SC. May 2007.
46. *Intensive Mobility Training, an Intervention Across Populations*. The Healthy Aging Research Consortium, Talk-a-topic presenter. Columbia, SC. December 2005.
47. *Application of CIMT, Background and Future Research Directions*. University of South Carolina, Department of Exercise Science; Columbia, SC. January 2005.
48. *Stroke Rehabilitation: New Developments*. Shands Hand Club; Gainesville, FL. July 2002.
49. *Use of Electromyography-Triggered Neuromuscular Stimulation as an Adjunct to CIMT*; Gainesville, FL. August 2001.
50. *Constraint-Induced Movement Therapy: Clinical Applications*. University of Florida, Dept. of Occupational Therapy; Gainesville, FL. April 2001.
51. *Physical Therapy as a Profession*. College of Health Professions, Undergraduate Rehabilitation Sciences Class. Gainesville, FL. April 2001.

PROFESSIONAL ASSOCIATIONS

- American Physical Therapy Association, Member since 1995
 - Section on Research Program Committee Member, 2008-2011
 - Sections: Research, Neurology, Education, and Geriatrics
- South Carolina Physical Therapy Association, Member 2004 to present
 - SCAPTA Membership Committee 2005 to 2007
- Florida Physical Therapy Association, Member 1999 to 2004
- Kentucky Physical Therapy Association, Member 1995 to 1999

REVIEWER FOR JOURNALS

1. *Topics in Stroke Rehabilitation* June 2017, March 2020
2. *BMC Neurology*, February 2020
3. *Journal of Neurologic Physical Therapy*, August 2017; December 2017, April 2019, October 2019
4. *PLOS One*, July 2019, September 2019
5. *Journal of Racial and Ethnic Health Disparities*, October 2018
6. *Gait and Posture*, September 2011, December 2011, July 2016, September 2018
7. *Journal of Geriatric Physical Therapy*, May 2009, July 2009, June 2010, July 2011, May 2012, September 2012, October 2012, May 2013, July 2013, September 2013, February 2015, May 2015, Feb 2016, September 2016, February 2017, May 2018, August 2018
8. *Games for Health Journal*, November 2017; December 2017, January 2018
9. *Journal of Gerontology*, November 2016
10. *Physical Therapy Journal*, Oct 2006, December 2006, August 2007, November 2008, January 2009, December 2014
11. *Spinal Cord*, September 2014
12. *Journal of Aging and Health*, April 2014
13. *Gerontechnology*, September 2013, July 2014, November 2014
14. *Physiotherapy Theory and Practice*, September 2008, October 2009, July 2010, February 2013
15. *Neurorehabilitation and Neural Repair*, March 2008, September 2009, June 2011, May 2012, October 2012
16. *Journal of Rehabilitation Research and Development*, June 2006, November 2006, February 2007, April 2007, July 2008, May 2011, September 2011, February 2012
17. *Archives of Physical Medicine and Rehabilitation*, July 2005, May 2007, September 2007, July 2008, December 2011
18. *Stroke Research and Treatment*, December 2011
19. *Health and Quality of Life Outcomes*, September 2010, November 2010
20. *Journal of Neuroengineering and Rehabilitation*, April 2010
21. *Stroke*, June 2006, November 2007, October 2009, November 2009
22. *Journal of Rehabilitation Medicine*, March 2008, January 2009
23. *Restorative Neurology and Neuroscience*, October 2006

REVIEWER FOR TEXTS

- *Multicultural Competence for the Physical Therapist*, December 2009

REVIEWER FOR GRANT PROPOSALS

- *Dunhill Medical Trust Grant Review- January 2020.*

- NIH- Musculoskeletal, Oral And Skin Sciences (MOSS) IRG, AREA (R15) Grant reviews- March 2019
- Panel Member, 2018 Congressionally Directed Medical Research Programs, Psychological Health and Traumatic Brain Injury Research Program- February 2019
- NIH- National Institute on Aging, Enhancing Central Neural Control of Mobility in Aging (U01 Clinical Trial Optional)- July 2018
- NIH- National Institute on Disability, Independent Living, and Rehabilitation (NIDILRR) – Rehabilitation Engineering Research Center (RERC): Individual Mobility and Manipulation- Alternative reviewer- May 2018
- Canadian Partnership for Stroke Recovery (CPSR)- Expert External Reviewer, March 2015
- NIH- Director’s Early Independence Award (DP5)- Grant Peer reviewer, March 2012
- Clinical Trial—Sensory Systems (CT-S) peer review panel of the 2012 Defense Medical Research and Development Program (DMRDP) for the Department of Defense Congressionally Directed Medical Research Programs (CDMRP). October 2011.
- Parkinson’s UK- Project Grants Scheme peer reviewer. October 2011

PROFESSIONAL AND UNIVERSITY SERVICE

Service to the Profession:

National-

- American Physical Therapy Association: Academy of Neurology’s Guideline Development Group for the development of Clinical Practice Guidelines for Locomotor Function for patients in the subacute stages following stroke, SCI and TBI (2019-present)- competitive application for committee
- American Physical Therapy Association: Academy of Neurology’s Health Promotion and Wellness Task Force (2016-2019)- Founding committee, competitive application for committee
- Physical Therapy Centralized Application Service (PTCAS) Advisory Board (2016-2021- two appointments, 3 years each), invited position
- Associate Member of Executive Committee for RIPPT (Research Intensive Programs in Physical Therapy) for the American Physical Therapy Association, **elected position**
- Leader at State Legislative Day, South Carolina Physical Therapy Association (2014, 2015, 2017)
- External Reviewer of Tenure and Promotion file from peer institutions [2014, 2015 (x2), 2017 (x2), 2019 (x2)].
- Geriatrics Section representative on the Section on Research’s EDGE task force (Evaluation Database to Guide Effectiveness) (2013-2017)- **Elected position**
 - Serving on Geriatric Edge Research Committee (2011-2017)
 - GeriEdge Workgroup on Falls Risk Assessment (2013)
- External Reviewer of new Doctoral Program for licensure (2012)
- Scientific Advisor for EyeStalks corporation development of rehabilitation product (2012-2016)
- Served on Strategic Planning committee for Geriatric Physical Therapy Journal (February 2012)
- Served on Strategic Task force for Research for Neurology Section of APTA – **competitive application for committee** (April 2011)
- Walking Speed Task Force- APTA (2009-2016)
- Session Moderator
 - Educational Leadership Conference APTA- October 2017, October 2018, October 2019

State-

- Advisory Board for South Carolina Stroke Learning Network (2010- 2013)
- Stroke Systems of Care Study Committee appointed by South Carolina Department of Health and

Environmental Control Board (2009- 2011)

- *Chair of Rehabilitation Subcommittee* charged with assessment of the current state of Stroke Rehabilitation and recommendations to General Assembly in South Carolina
- South Carolina Stroke Collaborative Planning Committee (2009-2013)
 - South Carolina Stroke Learning Network Advisory Board (2011-2013)

Service to the University of South Carolina:

- South Carolina Aging Research Network (SCARN) (2009-present), member
- Provost Blue Ribbon Committee on Graduate Life- **Co-Chair** (2015-2016)
- University of South Carolina **Athletics Advisory Committee** (2013-2016)
 - **Chair** (2015-2016)
 - Intercollegiate Athletics Committee of the University of South Carolina Board of Trustees (2015-2016)
 - **Faculty Senate Steering Committee** (2015-2016)
- University of South Carolina **Graduate Council** (2012-2015)
 - **Chair Graduate Council** (2014-2015)
 - Vice Chair Graduate Council (2013-2014)
 - Chair of Academic Policy and Practices Committee (2013-2014)
 - Fellowship and Scholarship Committee (2012-2013)
- SeniorSmart (USC & Palmetto Health) (2009-2015)
- University of South Carolina Institutional Review Board committee member (2012-2015)
- Faculty Judge for Graduate Student Day 2005, 2006, 2007, 2013, 2014, 2015
- Innovista Livability Committee (2006-2007)
- Search Committees:
 - University of South Carolina Faculty Athletic Representative (FAR) (2015)
 - University of South Carolina, Provost for Health Sciences. (2014)
 - University of South Carolina Faculty Athletic Representative (FAR) (2013)
 - Faculty Search- Physical Education and Athletic Training (2011)
 - Faculty Enhancement Initiative (FEI) in Imaging, Faculty Hire (2009)

Service to the Arnold School of Public Health:

- University of South Carolina Arnold School of Public Health Tenure & Promotion Committee (2013-present)
 - Writing Teaching Summaries (2015, 2016, 2017, 2018, 2019)
 - Peer review of teaching (annual)
- University of South Carolina, Arnold School of Public Health Council of Program Directors (2012- present)
- University of South Carolina, Arnold School of Public Health, Strategic Planning: Diversity and Inclusion Committee (2015- 2017)
- University of South Carolina, Arnold School of Public Health, Teaching awards committee (2012-2016), **(Chair 2015, 2016)**
- ASPH research retreat (fall 2014)
- Ad hoc committee to review promotion of Dr. Paul Beattie (2012)
- Ad hoc committee to review promotion of Dr. Cathy Arnot (2016)
- ASPH Technology and Library Committee (2007-2011)
- Search Committees:
 - Faculty Search, TecHealth, ASPH (2018- 2019)

- Arnold School of Public Health Search Committee for Associate Dean of Diversity, Equity and Inclusion (2018)
- Faculty Search, TecHealth, ASPH (2017- 2018)
- Faculty Search, TecHealth, ASPH (2015- 2016)
- Faculty Search, Center for Rehabilitation Reconstruction, HSPM Dept (2014-2015)
- Faculty Search, Center for Rehabilitation Reconstruction, HSPM Dept (2013-2014)
- Faculty Search, Masters of Health Administration, HSPM Dept (2012)

Service to the Department of Exercise Science:

- Graduate Director of Rehabilitation Sciences Division (2016-2019)
 - Coordinate Rehabilitation Sciences Journal Club (2016-2019)
- Department of Exercise Science PhD Admission and Curriculum Committee (2017-2019)
- University of South Carolina, Exercise Science Department, Executive Committee (2012- 2017)
- Physical Activity/ Exercise Task Force (2010-2011)
- Faculty Mentor
 - Gregory Mangion (2019-present)- Physician Assistant Program Director
 - Jill Stewart (2014- present)- EXSC, DPT
 - Ray Thompson (2015-present)- EXSC
 - Alicia Flach (2017- present)- EXSC, DPT
- Search Committees
 - Chair Search (2018-2019)
 - Faculty Search- Athletic Training (2018)
 - Faculty Search (2015-2016)
 - Chair Search (2013-2014)
 - Faculty Search (2010-2011)

Service to the Physical Therapy Program;

- Program Director (2012- present)
- Accreditation Review Committee
 - Chair (2016-2018)
 - Member (2007-2009)
- Admission Committee (2004-present), Chair (2012- present)
- Curriculum Committee (2004-present), Chair (2012- present)
- Assessment Committee (2005-present), Chair (2004-2017)
- Search Committee
 - Faculty Search Co-Chair (2017-2018)
 - Staff search committee chair (2017)
 - Faculty Search Chair (2016-2017)
 - Faculty Search Chair (2016)
 - Faculty Search Chair (2011- 2012)

AWARDS

- 2018 Academy of **Geriatric Physical Therapy Excellence in Geriatric Research Award**, Academy of Geriatrics, American Physical Therapy Association.

- University of South Carolina, **Pipeline for Academic Leaders Inaugural Fellow (PAL)** (2014-2015)
- Nominated for 2013, 2014 & 2015 Michael J. Mungo Graduate Teaching Award, University of South Carolina
- 2012 **James A. Keith Excellence in Teaching Award**, Arnold School of Public Health, University of South Carolina
- Elected to University of South Carolina, Graduate Council, 2012
- Nominated to the Mu Chapter of the Delta Omega Society for Public Health, 2010
- Arnold School of Public Health 2008 Faculty Research Award Nominee
- Pre-doctoral Associated Health Rehabilitation Research Fellowship, VA Hospital (2003-2004)
- 1st Place Poster Presentation at the World Physical Therapy Conference for Northern America Region. Barcelona, Spain (2003)
- Dean's Scholar for recognition of scholarly achievement, leadership, and professional potential. College of Health Professions, University of Florida. (2002)
- Foundation for Physical Therapy Promotion of Doctoral Studies Scholarship Level 1 (2001-2002)
- Dean's Scholar Finalist for recognition of scholarly achievement, leadership, and professional potential College of Health Professions, University of Florida (2001)
- Frederick Family Scholarship, University of Florida, Department of Physical Therapy for excellence in Academic, Teaching, and Research Achievements (2001)
- Shands Hospital Board of Directors Scholarship for College of Health Professions (2001)
- 1st Place Poster Presentation in Human Physiology and External Influences. University of Florida Graduate Student Forum (2000). A research symposium for all graduate students at the University of Florida.
- Travel Grants: Graduate Student Council, Fall 2001; Rehabilitation Sciences, Spring 2001; Graduate Student Council, Spring 2003.

MENTEE AWARDS

- Elizabeth Regan, DPT- 2020 Breakthrough Graduate Scholars; representing USC's most promising graduate students who demonstrate phenomenal commitment to research and scholarly activity
- Reed Handlery, DPT- 2020 CV & P Research Grant (APTA Cardiovascular and Pulmonary Academy); \$5000
- Elizabeth Regan, DPT –American Heart Association Pre-Doctoral Fellowship, 2019-2020; priority score of <1 percentile. \$53,688
- Reed Handlery, DPT 2018 Arnold Fellowship Recipient, \$10,000
- Reed Handlery, DPT; Promotion of Doctoral Scholars I Scholarship 2018-2019, Foundation of Physical Therapy, \$7500
- Elizabeth Regan, DPT; Presidential Fellowship Recipient, University of South Carolina; Columbia, SC 2016. \$8,000/year for 4 years
- Elizabeth Regan, NIH T-32 Pre-doctoral research training grant, University of South Carolina. 8/2016 – 8/2018, Behavioral-Biomedical Interface Program (BBIP)
- Molly Lonneman, Magellan Scholar Program -“TIPPS, Tools & Inventions for/from People Post-Stroke” \$2976. 2016-2017
- Addie Middleton, PhD, DPT 2015- Outstanding Exercise Science Graduating PhD student
- Addie Middleton, DPT 2014 voted to receive Arnold Fellowship
- Addie Middleton, DPT- Spring 2013: Top post-professional student poster presentation award at South Carolina Physical Therapy Association Annual Meeting. Myrtle Beach, SC.

- Derek Liuzzo, DPT 2012 Arnold Fellowship Recipient
- Addie Middleton, DPT- Fall 2012: Awarded Behavioral-biomedical Interface Program (BPIP) – T32 pre-doctoral researching training fellowship.
- Denise Peters, DPT- Spring 2011: 2nd Place Oral Presentation in Health Promotion, Education & Behavioral division, University of South Carolina Graduate Student Research Day
- Jennifaye Greene, PT- Spring 2011: Honorable Mention in Poster Presentation in Health and Life Sciences division, University of South Carolina Graduate Student Research Day
- Denise Peters, DPT- Fall 2010 Arnold Fellowship Recipient
- Angela Merlo, DPT: 3rd Place Poster Presentation in Health Sciences & Policy division, University of South Carolina Graduate Student Research Day, March 2009
- Angela Merlo-Rains, DPT & Erin Rivers, DPT- 2008-2009 Arnold Fellowship Recipient
- Erin Rivers, DPT: 1st Place Poster Presentation in Health Sciences & Policy division, University of South Carolina Graduate Student Research Day, March 2008.
- Brandy Duncan: 3rd Place Platform Presentation in Health & Physiology division, University of South Carolina Graduate Student Research Day, March 2008.
- Erin Rivers, DPT- Spring 2008 Arnold Fellowship Recipient
- Angela Merlo-Rains, DPT- Graduate Research Assistantship program sponsored by the Graduate School is to provide one-time funds for hiring graduate assistants, enable them to work more closely with faculty on ongoing innovative research projects, and to assist faculty who are beginning new research projects. 2007-2008
- Janea Sweet- 2nd place for Scholarly Poster in Arts, Social, and Life Sciences, University of South Carolina Graduate Student Research Day, April 2007
- Tabitha Washington- 2007 Minority Scholarship Award for Academic Excellence awarded by the American Physical Therapy Association

CLINICAL EXPERIENCE

Consulting

- Senior Research Associate- ASSEST, Advanced Smart Systems and Evaluation Technologies, LLC (2018-present)
- Ask the Expert on Stroke Network (www.strokenetwork.org). Respond to emails from patients, therapist, and caregivers regarding physical therapy questions related to stroke. (2002- present)
- Advisory Board- Second Wind Wellness Centers (2016-2017)
- “Rehabilitation Expert” for Palmetto Health Richland, Geriatric Mobility Clinic (2009-2014)

Staff Physical Therapist

- *Caretenders*, Lexington, KY. Home Health Physical Therapy, 1999.
- *Southern Tennessee Medical Center*, Winchester, TN. Traveling Physical Therapist with Staffing Options and Solutions (SOS), Indianapolis, IN. Practiced in outpatient clinic treating variety of patients with orthopedic and neurological injuries, 1998-1999.
- *Columbus County Hospital*, Whiteville, NC. Traveling Physical Therapist with SOS. Practiced in hospital based outpatient clinic treating acute orthopedic, post-surgical, neurological, and wound care patients, 1998.
- *Cardinal Hill Rehabilitation Hospital*, Lexington, KY. Traveling Physical Therapist with SOS. Practiced in a variety of settings including chronic pain management program, inpatient rehabilitation, orthopedics, pediatrics, home health, and skilled nursing facility, 1997-1998

PROFESSIONAL LICENSURE AND CERTIFICATIONS

State of South Carolina Licensed Physical Therapist, 2004- present