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Education

2013	Postdoc	Neurology	University of California, Irvine
2010	PhD	Biokinesiology	University of Southern California
2000	MS	Physical Therapy	University of Indianapolis
1995	BS/MPT	Physical Therapy	University of Evansville

Training

2025 – 2026	ReproRehab Fellow funded by the National Center for Medical Rehabilitation Research, National Institutes of Health
2019	Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop funded by the National Center for Medical Rehabilitation Research, National Institutes of Health
2017	17th Annual OBSSR/NHLBI Summer Institute on Randomized Behavioral Clinical Trials funded by the National Institutes of Health

Academic Positions

2025 –	PhD Program Director, Department of Exercise Science, University of South Carolina, Columbia, SC
2020 –	Associate Professor, Physical Therapy Program, Department of Exercise Science, University of South Carolina, Columbia, SC
2014 –	Director, Motor Behavior and Neuroimaging Laboratory, University of South Carolina, Columbia, SC
2014 – 2019	Assistant Professor, Physical Therapy Program, Department of Exercise Science, University of South Carolina, Columbia, SC
2010 – 2013	Postdoctoral Research Fellow, Neurorehabilitation Laboratory, University of California, Irvine, Irvine, CA
2008 – 2016	Adjunct Instructor, Department of Physical Therapy, University of Tennessee Health Science Center, Memphis, TN
2003 – 2009	Teaching/Research Assistant, Doctor of Physical Therapy Program, Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, CA
2000 – 2002	Adjunct Instructor, Physical Therapist Assistant Program, Krannert School of Physical Therapy, University of Indianapolis, Indianapolis, IN
1999 – 2000	Graduate Assistant, Krannert School of Physical Therapy, University of Indianapolis, Indianapolis, IN

Clinical Positions

2003 – 2004	Physical Therapist, Northridge Hospital Medical Center, Northridge, CA
2002 – 2003	Physical Therapist, Head Injury Rehabilitation Services, Marina del Ray, CA
2001 – 2002	Physical Therapist, Clarian Health Partners, Indianapolis, IN
1999 – 2002	Physical Therapist, Rehabilitation Hospital of Indiana, Indianapolis, IN
1998 – 1999	Physical Therapist, Florence Physical Therapy Associates, PC, Lugoff, SC
1995 – 1999	Physical Therapist, HealthSouth Rehabilitation Hospital, Columbia, SC

Honors and Awards

2023	Distinguished Research Service Award, Office of the Vice President for Research, University of South Carolina
2011	Best Podium Presentation Award, California Physical Therapy Association Annual Conference, California Physical Therapy Association
2008	Research Publication Award, Physical Therapist-Student, California Physical Therapy Association
2008	Interdisciplinary Research Award, Student Research Day, School of Dentistry, University of Southern California
2000	Award for Excellence in Research in Postprofessional Program, Krannert School of Physical Therapy, University of Indianapolis

Peer-Reviewed Journal Publications (underline represents student/mentee)

1. Goh HT, **Stewart J**, Chung YC, Becker K, Shang T. (2026). Post-stroke fatigue and brain excitability: an exploratory TMS study. *Restorative Neurology and Neuroscience*, 44(1), 15-27.
2. Schroers FN, Herter TM, Bruemmer D, Ichiyanagi T, Hetherington A, O'Donnell M, Ozorowski J, Simmons C, **Stewart JC**. (2025). Effect of practice on the control of reach extent. *Experimental Brain Research*, 243, 236.
3. Liao KC, Christian I, **Stewart J**, Trudelle-Jackson E, Wang W, Shang T, Goh HT. (2025). Behavioral and neural correlates of post-stroke fatigue: a randomized controlled trial protocol. *PLoS One*, 20(6), e0324591.
4. Jordon MK, Silfies SP, Beattie, PF Vendemia JMC, **Stewart JC**. (2025). Brain activation and functional connectivity during performance of lumbopelvic motor tasks in individuals with and without low back pain: a functional magnetic resonance imaging study. *European Journal of Neuroscience*, 61(11), e70154.
5. Goh HT, **Stewart J**, Becker K. (2025). Fatigue is associated with perceived effort and two-dimensional reach performance after stroke. *Journal of Neurologic Physical Therapy*, 49(2), 90-98.
6. Smith CR, Baird JF, Buitendorp J, Horton H, Watkins M, **Stewart JC**. (2024). Implicit motor sequence learning using three-dimensional reaching movements with the non-dominant left arm. *Experimental Brain Research*, 242(12), 2715-2726.
7. Rizor E, Fridriksson J, Peters DM, Rorden C, Bonilha L, Yourganov G, Fritz SL, **Stewart JC**. (2024). Brain-hand function relationships based on level of grasp function in chronic left-hemisphere stroke. *Neurorehabilitation and Neural Repair*, 38(10), 752-763.

8. Lewis AF, Bohnenkamp R, Myers M, den Ouden DB, Fritz SL, **Stewart JC**. (2024). Effect of positive social comparative feedback on the resting state connectivity of dopaminergic neural pathways: a preliminary investigation. *Neurobiology of Learning and Memory*, 212, 107930.
9. Goh HT, **Stewart J**, Becker K. (2024). Validating the Fatigue Scale for Motor and Cognitive Function (FSMS) in chronic stroke. *Neurorehabilitation*, 54, 275-285.
10. Goh HT, **Stewart J**, Becker K, Hung CJ. (2023). Memory-guided reaching: is it effortful? *Motor Control*, 27(2), 194-216.
11. Lewis AF, Bohnenkamp R, Johnson L, den Ouden DB, Wilcox S, Fritz SL, **Stewart JC**. (2023). Effects of positive social comparative feedback on motor sequence learning and performance expectancies. *Frontiers in Psychology*, 13, 1005705.
12. Hayward K, Ferris JK, Lohse KR, Borich MR, Borstad A, Cassidy JM, Cramer SC, Dukelow SP, Findlater SE, Hawe RL, Liew SL, Neva JL, **Stewart JC**, Boyd LA. (2022). An observational study of neuroimaging biomarkers of severe upper limb impairment after stroke. *Neurology*, 99(4), e402-e413.
13. Klusek J, Newman-Norlund R, Fairchild A, Newman-Norlund S, Sayers S, **Stewart JC**, Berry-Kravis E, Fridriksson J. (2022). Low normal FMR1 genotype in older women: Psychological well-being and motor function. *Archives of Gerontology and Geriatrics*, 103, 104789.
14. Lingo VanGilder J, Bergamino M, Hooyman A, Fitzhugh M, Rogalsky C, **Stewart JC**, Beeman SC, Schaefer SY. (2022). Using whole-brain diffusion tensor analysis to evaluate white matter structural correlates of delayed visuospatial memory and one-week motor skill retention in nondemented older adults: A preliminary study. *PLoS One*, 17(9), e0274955.
15. **Stewart JC**, Baird JF, Lewis AF, Fritz SL, Fridriksson J. (2022). Effect of behavioral practice targeted at the motor action selection network after stroke. *European Journal of Neuroscience*, 56, 4469-4485.
16. Jordon M, **Stewart JC**, Silfies SP, Beattie PF. (2022). Task-based functional connectivity and BOLD activation during within-scanner performance of lumbopelvic motor tasks: an fMRI study. *Frontiers in Human Neuroscience*, 16, 816595.
17. Smith C, Hetherington A, Silfies SP, **Stewart JC**. (2022). Scaling of joint motion and muscle activation for 3-dimensional control of reach extent. *Journal of Motor Behavior*, 54(2), 222-236.
18. Goh HT, **Stewart JC**, Becker K, Hung CJ. (2022). Perceived effort for reaching is associated with self-reported fatigue. *Journal of Motor Behavior*, 54(1), 14-26.
19. Handlery R, **Stewart JC**, Pellegrini C, Monroe C, Hainline G, Flach A, Handlery K, Fritz S. (2021). Physical activity in de novo Parkinson's Disease: daily step recommendation and effects of treadmill exercise on physical activity. *Physical Therapy & Rehabilitation Journal*, 101, 1-11.
20. Lewis AF, **Stewart JC**. (2021). Comparison of corticospinal tract integrity measures extracted from standard versus native space in chronic stroke. *Journal of Neuroscience Methods*, 359, 109216.
21. Peters DM, Fridriksson J, Richardson JD, **Stewart JC**, Rorden C, Bonilha L, Middleton A, Fritz SL. (2021). Upper and lower limb motor function correlates with ipsilesional corticospinal tract and red nucleus structural integrity in chronic stroke: a cross-sectional, ROI-based MRI Study. *Behavioural Neurology*, 2021, 3010555.
22. Handlery R, Regan EW, **Stewart JC**, Pellegrini C, Monroe C, Hanline G, Handlery K, Fritz S. (2021). Predictors of daily steps at one year post stroke: a secondary analysis of a randomized controlled trial. *Stroke*, 52(5), 1768-1777.
23. Regan EW, Handlery R, **Stewart JC**, Pearson JL, Wilcox S, Fritz SL. (2021). Feasibility of integrating survivors of stroke into cardiac rehabilitation: a mixed methods pilot study. *PLoS One*, 16(3): e0247178.

24. Regan E, Fridriksson J, Schaefer SY, Rorden C, Bonilha L, Lingo Vangilder J, **Stewart JC**. (2021). Neural correlates of within-session practice effects in mild motor impairment after stroke: a preliminary investigation. *Experimental Brain Research*, 239(1), 151-160.
25. **Stewart JC**, Saba A, Baird JF, Kolar MB, O'Donnell M, Schaefer SY. (2021). Effect of standing on a standardized measure of upper extremity function. *OTJR: Occupation, Participation, and Health*, 41(1), 32-39.
26. Regan EW, Handlery R, **Stewart JC**, Pearson JL, Wilcox S, Fritz S. (2021). Integrating survivors of stroke into cardiac rehabilitation improves cardiovascular endurance and functional strength. *Journal of the American Heart Association*, 10(3), e017907.
27. **Stewart JC**, Handlery K, Baird JF, Blanck EL, Pathak G, Fritz SL. (2020). Targeted engagement of the action selection network during task-oriented arm training after stroke. *Neural Plasticity*, 8814158.
28. Handlery R, Fulk G, Pellegrini C, **Stewart JC**, Monroe C, Fritz S. (2020). Stepping after stroke: walking characteristics in people with chronic stroke differ based on walking speed, walking endurance and daily steps. *Physical Therapy Journal*, 100(5), 807-817.
29. Lewis AF, Myers M, Heiser J, Kolar M, Baird JF, **Stewart JC**. (2020). Test-retest reliability and minimal detectable change of corticospinal tract integrity in chronic stroke. *Human Brain Mapping*, 41(9), 2514-2526.
30. Regan E, Middleton A, **Stewart JC**, Wilcox S, Pearson JL, Fritz SL. (2020). The six-minute walk test as a screening tool for fall risk in person with stroke: a cross-sectional analysis. *Topics in Stroke Rehabilitation*, 27(2), 118-126.
31. Goh HT, **Stewart JC**. (2019). Post-stroke fatigue is related to motor and cognitive performance: a secondary analysis. *Journal of Neurologic Physical Therapy*, 43(4):233-239.
32. Regan E, Handlery R, Liuzzo DM, **Stewart JC**, Burke AR, Hainline GM, Horn C, Keown JT, McManus AE, Lawless BS, Purcell M, Fritz S. (2019). The Neurological Exercise Training (NExT) Program: A Pilot Study of a Community Exercise Program for Survivors of Stroke. *Disability and Health Journal*, 12, 528-532.
33. **Stewart JC**, Lewthwaite R, Rocktaschel J, Winstein CJ. (2019). Self-efficacy and reach performance in individuals with mild motor impairment due to stroke. *Neurorehabilitation and Neural Repair*, 33(4), 319-328.
34. Gunn LJ, **Stewart JC**, Morgan B, Metts ST, Magnuson JM, Iglowski NJ, Fritz SL, Arnot C. (2019). Instrument-assisted soft tissue mobilization and proprioceptive neuromuscular facilitation techniques improve hamstring flexibility better than static stretching alone: a randomized clinical trial. *Journal of Manual & Manipulative Therapy*, 27(1), 15-26.
35. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, Fritz SL, den Ouden DB, **Stewart JC**. (2018). The effect of energy-matched exercise intensity on brain-derived neurotrophic factor and motor learning. *Neurobiology of Learning and Memory*, 156, 33-44.
36. Schaefer SY, Saba A, Baird J, Kolar MB, Duff K, **Stewart JC**. (2018). Within-session practice effects in the Jebsen Hand Function Test (JHFT). *American Journal of Occupational Therapy*, 72(6), 7206345010p1-7206345010p5.
37. Quinlan EB, Dodakian L, See J, McKenzie A, **Stewart JC**, Cramer SC. (2018). Biomarkers of rehabilitation therapy vary according to stroke severity. *Neural Plasticity*, 9867196.
38. Baird J, **Stewart JC**. (2018). Sequence-specific implicit motor learning using whole-arm 3-dimensional reach movements. *Experimental Brain Research*, 236, 59-67.

39. Peters DM, Fridriksson J, **Stewart JC**, Richardson JD, Rorden C, Bonilha L, Middleton A, Gleichgerrcht E, Fritz SF. (2018). Cortical disconnection of the ipsilesional primary motor cortex is associated with gait speed and upper extremity motor impairment in chronic stroke. *Human Brain Mapping*, 39, 120-132.
40. **Stewart JC**, O'Donnell M, Handlery K, Winstein CJ. (2017). Skilled reach performance correlates with corpus callosum structural integrity in individuals with mild motor impairment after stroke: a preliminary investigation. *Neurorehabilitation and Neural Repair*, 31(7), 657-665.
41. **Stewart JC**, Cramer SC. (2017). Genetic variation and neuroplasticity: role in rehabilitation after stroke. *Journal of Neurologic Physical Therapy*, 41, S17-S23.
42. **Stewart JC**, Dewanjee P, Tran G, Quinlan EB, Dodakian L, McKenzie A, See J, Cramer SC. (2017). Role of corpus callosum in sensorimotor function differs based on level of motor impairment after stroke. *Neuroimage: Clinical*, 14, 641-647.
43. **Stewart JC**, Dewanjee P, Shariff U, Cramer SC. (2016). Dorsal premotor activity and connectivity relate to action selection performance after stroke. *Human Brain Mapping*, 37(5), 1816-1830.
44. Dodakian L, **Stewart JC**, Cramer SC. (2014). Motor imagery during movement activates the brain more than movement alone after stroke: a pilot study. *Journal of Rehabilitation Medicine*, 46(9), 843-848.
45. **Stewart JC**, Tran X, Cramer SC. (2014). Age-related variability in performance of a motor action selection task is related to differences in brain structure and function among older adults. *Neuroimage*, 86, 326-334.
46. **Stewart JC**, Gordon J, Winstein CJ. (2014). Control of reach extent with the paretic and nonparetic arms after unilateral sensorimotor stroke II: planning and adjustments to control movement distance. *Experimental Brain Research*, 232(11), 3431-3443.
47. **Stewart JC**, Gordon J, Winstein CJ. (2014). Control of reach extent with the paretic and nonparetic arms after unilateral sensorimotor stroke: kinematic differences based on side of brain damage. *Experimental Brain Research*, 232(7), 2407-2419.
48. **Stewart JC**, Cramer SC. (2013). Patient-reported outcomes provide unique insights into motor function after stroke. *Stroke*, 44(4), 1111-1116.
49. **Stewart JC**, Gordon J, Winstein CJ. (2013). Planning and adjustments for the control of reach extent in a virtual environment. *Journal of NeuroEngineering & Rehabilitation*, 10, 27.
50. Schweighofer N, Lee JY, Goh HT, Choi Y, Kim S, **Stewart JC**, Lewthwaite R, Winstein CJ. (2011). Mechanisms of the contextual interference effect in individuals post-stroke. *Journal of Neurophysiology*, 106(5), 2632-2641.
51. **Stewart JC**, Yeh SC, Jung Y, Yoon H, Whitford M, Chen S, Li L, McLaughlin M, Rizzo A, Winstein CJ. (2007). Intervention to enhance skilled arm and hand movements after stroke: A feasibility study using a new virtual reality system. *Journal of NeuroEngineering & Rehabilitation*, 4, 21.
52. Domholdt E, **Stewart JC**, Barr JO, Melzer BA. (2002). Entry-level doctoral degrees in physical therapy: Status as of Spring 2000. *Journal of Physical Therapy Education*, 16(1), 60-68.

Invited Commentaries and Editorials

1. Fritz NE, **Stewart JC**. Moving the movement system forward in neurologic physical therapy. Invited Editorial. *Journal of Neurologic Physical Therapy*, 2026

2. Silfies SP, Vendemia JMC, Beattie P, **Stewart JC**, Jordon M. (2017). Changes in brain structure and activation may augment abnormal movement patterns: an emerging challenge in musculoskeletal rehabilitation. *Pain Medicine*, 18(11), 2051-2054.
3. **Stewart JC**, Flach A. (2015). Making the most of every repetition. *Journal of Neurologic Physical Therapy*, 39(1), 31-32.

Book Chapters

1. Winstein CJ, **Stewart JC**. (2006). Conditions of task practice for individuals with neurological impairments. In: *Textbook of Neural Repair and Neurorehabilitation. Medical Neurorehabilitation* (eds Selzer M, Clark S, Cohen L, Duncan P, Gage F), Cambridge University Press, Cambridge, 89-102.

Peer-Reviewed Conference Papers

1. **Stewart JC**, Gordon J, Winstein CJ. (2008). Use of a virtual environment to investigate planning of unconstrained reach actions after stroke: a feasibility study. *Virtual Rehabilitation 2008*, Vancouver, Canada, 13-21.
2. Yeh SC, **Stewart J**, McLaughlin M, Parsons TD, Winstein CJ, Rizzo AA. (2007). Evaluation approach for post-stroke rehabilitation via virtual reality aided motor training. *Twelfth Annual International Conference on Human-Computer Interaction*, Beijing, China, 378-387.
3. Yeh SC, **Stewart J**, McLaughlin M, Parsons TD, Winstein CJ, Rizzo AA. (2007). VR aided motor training for post-stroke rehabilitation: system design, clinical test, methodology for evaluation. *IEEE Virtual Reality Conference*, Charlotte, NC, 299-300.
4. McLaughlin M, Zimmermann R, Liu LS, Jung Y, Peng W, Jin SA, **Stewart J**, Yeh SC, Zhu W, Seo B. (2006). Integrated voice and haptic support for tele-rehabilitation. *Fourth Annual IEEE International Conference on Pervasive Computing and Communications Workshops*, Pisa, Italy, 595-599.
5. **Stewart JC**, Yeh SC, Jung Y, Yoon H, Whitford M, Chen S, Li L, McLaughlin M, Rizzo A, Winstein CJ. (2006). Pilot trial results from a virtual reality system designed to enhance recovery of skilled arm and hand movements after stroke. *Fifth International Workshop on Virtual Rehabilitation*, New York, NY, 11-17.
6. Jung Y, Yeh SC, **Stewart J**, USC-UT Consortium for Interdisciplinary Research. (2006). Tailoring virtual reality technology for stroke rehabilitation: a human factors design. *Proceedings on Human Factors in Computing Systems, CHI 2006*, Montreal, Canada, 929-934.
7. Yeh SC, Rizzo A, Zhu W, **Stewart J**, McLaughlin M, Cohen I, Jung Y, Peng W. (2005). An integrated system: virtual reality, haptics and modern sensing technique (VHS) for post-stroke rehabilitation. *ACM Symposium on Virtual Reality Software and Technology*, Monterey, CA, 59-62.

Conference Research Presentations (underline represents student/mentee)

1. Pandya R, Chen YA, Goh HT, Yang CH, Winstein C, **Stewart J**. (2026). Relationship between self-reported body position and paretic arm activity amount and intensity in chronic stroke. *Combined Sections Meeting of the APTA*, accepted.
2. Massoudin S, Au C, Liao KC, Wang M, **Stewart J**, Trudelle-Jackson E, Goh HT. (2026). Corticospinal tract integrity and excitability after stroke: a DTI and TMS study. *Combined Sections Meeting of the APTA*, accepted.

3. Wang M, **Stewart J**, Trudelle-Jackson E, Wang W, Goh HT. (2026). Relationship between sleep quality, fatigue, and depression after stroke: an exploratory study. *Combined Sections Meeting of the APTA*, accepted.
4. Pandya R, Chen YA, Goh HT, Yang CH, Winstein C, **Stewart JC**. (2025). Relationship between self-reported body position and arm use time in chronic stroke: an ecological momentary assessment study. *American Society of Neurorehabilitation Annual Meeting*.
5. Wang M, Liao KC, **Stewart J**, Trudelle-Jackson E, Wang W, Goh HT. (2025). Reach fast or slow? The role of post-stroke fatigue in arm movement decisions. *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
6. Thomas P, Cristian I, Kendall K, **Stewart J**, Trudelle-Jackson E, Wang W, Shang T, Goh HT. (2025). Impact of post-stroke fatigue on perceived effort during reaching: a replication study. *Combined Sections Meeting of the APTA*.
7. Johnson M, Karakkattil P, Liao KC, **Stewart J**, Trudelle-Jackson E, Wang W, Shang T, Goh HT. (2025). Feasibility and safety of transcranial direct current stimulation for post-stroke fatigue. *Combined Sections Meeting of the APTA*.
8. Soto M, Pacheco L, **Stewart J**, Trudelle-Jackson E, Goh HT. (2025). A scoping review of the association between post-stroke fatigue and neuroimaging markers. *Combined Sections Meeting of the APTA*.
9. Pandya R, Lockhart O, Lewis A, Maxwell K, Fritz SL, **Stewart JC**. (2024). Effect of task-oriented arm training in standing on bimanual and unimanual arm use in stroke: a preliminary study. *American Society of Neurorehabilitation Annual Meeting*.
10. Liao KC, Christian I, **Stewart J**, Jackson E, Wang W, Shang T, Goh HT. (2024). Behavioral and neural correlates of post-stroke fatigue: a randomized controlled trial protocol. *American Society of Neurorehabilitation Annual Meeting*.
11. Pandya R, Lockhart O, Lewis A, Maxwell K, Fritz SL, **Stewart JC**. (2024). Task-oriented arm training in standing after stroke: a feasibility study. *Combined Sections Meeting of the APTA*.
12. McAdams D, Trunnelle B, Pugh D, Liu H, **Stewart J**, Becker K, Goh HT. (2024). Relationship between self-reported fatigue and brain activation during reaching: an fNIRS study. *Combined Sections Meeting of the APTA*.
13. Geary MD, Arnot CF, Jacobson ET, Grant LA, Bayliss R, Bruce ME, Cooper SK, Parrish AM, Pfeiffer A, Steadings JE, Turner J, **Stewart JC**. (2024). Impact of mobilization with movement on hip flexion range of motion: a randomized control trial. *Combined Sections Meeting of the APTA*.
14. Smith CR, Silfies SP, Behroozmand R, Kantak S, **Stewart, JC**. (2023). Investigation of the effect of attentional focus instructions on learning a whole-arm sequence task. *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
15. Lewis AF, Bohnenkamp R, **Stewart JC**. (2023). Genetic variation in the dopamine system impacts learning response to positive social comparative feedback. *American Society of Neurorehabilitation Annual Meeting*.
16. Marshall T, Paz C, **Stewart J**, Becker K, Goh HT. (2023). Psychometric properties of the Fatigue Scale for Motor and Cognitive Function (FSMC) in chronic stroke. *Combined Sections Meeting of the APTA*.
17. Lewis AF, Bohnenkamp R, Myers M, den Ouden D, Fritz S, **Stewart JC**. (2022). Effect of positive social comparative feedback on resting state connectivity of dopaminergic neural pathways: a preliminary investigation. *Society for Neuroscience*.

18. Goh HT, **Stewart JC**, Becker K. (2022). Unique role of post-stroke fatigue in reach performance and arm use after stroke. *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
19. **Stewart JC**, Lewis AF, Baird J, Handlery K, Lockhart O, Blanck E, Fritz SL. (2022). Targeting the action selection network during functional arm training after stroke: a feasibility study. *International Stroke Conference*.
20. Goh HT, **Stewart JC**, Becker K. (2022). Post-stroke fatigue is related to perceived effort during reaching. *Combined Sections Meeting of the APTA*.
21. Chung YC, **Stewart JC**, Shang T, Goh HT. (2022). Reduced corticomotor excitability and increased cortical inhibition are associated with post-stroke fatigue. *Combined Sections Meeting of the APTA*.
22. Lewis AF, Bohnenkamp R, Johnson L, den Ouden D, Wilcox S, Fritz S, **Stewart JC**. (2021). Effects of social comparative feedback on motor sequence learning and the kinematic variables of performance. *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
23. Smith C, Via J, Roark H, Watkins M, Baird JF, **Stewart JC**. (2021). Sequence-specific implicit motor learning of a 3-dimensional whole-arm sequence task in the non-dominant versus dominant arm, *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
24. Lewis AF, Bohnenkamp R, Johnson L, den Ouden D, Wilcox S, Fritz S, **Stewart JC**. (2021). Effects of social comparative feedback on motor sequence learning and perceived competence. *American Society of Neurorehabilitation Annual Meeting*.
25. Johnson LR, Heiser JC, Corely RK, Lewis AF, **Stewart JC**. (2021). Effect of task-oriented arm training on corticospinal tract integrity in chronic stroke. *Combined Sections Meeting of the APTA*.
26. Jordon MK, Beattie PF, Silfies SP, **Stewart J**. (2021). Increased insular and mid-cingulate cortex activation in individuals with cLBP occurs only during pain-specific tasks. *Combined Sections Meeting of the APTA*.
27. Smith CR, Via J, Roark H, Watkins M, Baird JF, **Stewart JC**. (2021). Sequence-specific implicit motor learning using the non-dominant left arm in a three-dimensional virtual environment. *Annual Meeting of the Southeast Chapter of the American College of Sports Medicine*.
28. 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. *Annual Meeting of the American College of Sports Medicine*.
29. Regan EW, Handlery R, Wilcox S, **Stewart J**, Pearson JL, Fritz SL. (2020). Outcomes from integrating stroke survivors into cardiac rehabilitation. *AHA Quality of Care & Outcomes Research Conference*.
30. Lewis AF, **Stewart JC**. (2020). Corticospinal tract fractional anisotropy extracted from native versus standard space in chronic stroke. *Combined Sections Meeting of the APTA*.
31. Goh HT, Becker K, Hung CJ, Beutel, **Stewart J**. (2020). Subjective fatigue is correlated with perceived effort and reach performance. *Combined Sections Meeting of the APTA*.
32. Regan EW, 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*.
33. Jordon MK, Beattie PF, Silfies SP, Bialosky JE, **Stewart J**. (2020). Task-based functional connectivity during lumbopelvic motor tasks: an fMRI study in healthy participants. *Combined Sections Meeting of the APTA*.

34. Jordon MK, Beattie PF, Silfies SP, Bialosky JE, **Stewart J.** (2020). Individuals with chronic low back pain exhibit alterations in brain activation during lumbopelvic motor tasks. *Combined Sections Meeting of the APTA.*
35. Behnke AD, Gibbs K, Jansen SS, **Stewart JC**, Westlake FL, Harrington SE. (2020). Comparing functional assessment in those with CIPN vs. community dwelling older adults. *Combined Sections Meeting of the APTA.*
36. Lewis AF, **Stewart JC.** (2019). Comparison of corticospinal tract fractional anisotropy extracted from native versus standard space in chronic stroke. *American Society of Neurorehabilitation Annual Meeting.*
37. Smith CR, Hetherington A, Silfies SP, **Stewart JC.** (2019). Joint motion and muscle activation scaling during 3-Dimensional Reach Actions. *North American Society for the Psychology of Sport and Physical Activity Annual Conference.*
38. 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.*
39. Anderson K, Adkins D, **Stewart J**, Simpson A, Woodbury ML. (2019). Using evidence from neuroscience, psychology, and learning theory to know when to grade task difficulty. *AOTA Annual Conference & Expo.*
40. Lewis AF, Myers M, Heiser J, Kolar MB, **Stewart JC.** (2019). Reliability and minimal detectable change of fractional anisotropy of the corticospinal tract in chronic stroke. *Combined Sections Meeting of the APTA. *Awarded Best Poster Award-Basic or Applied Research, Stroke Special Interest Group*
41. **Stewart JC**, Lewis AF, Baird JF, Fritz SL, Fridriksson J. (2018). Effect of behavioral practice targeted at the premotor-prefrontal component of the motor network after stroke. *American Society of Neurorehabilitation Annual Meeting.*
42. Hayward KS, Ferris J, Lohse K, Borich M, Borstad A, **Stewart J**, Dukelow S, Cassidy J, Findlater S, Neva J, Cramer SC, Boyd LA. (2018). Severity of impairment is important when exploring biomarkers of upper limb outcome post-stroke. *American Society of NeuroRehabilitation Annual Meeting. *Awarded Fletcher McDowell Award – Best Abstract in Clinical Science*
43. Lewis AF, Myers M, Heiser J, Kolar MB, **Stewart JC.** (2018). Test-retest reliability of corticospinal tract integrity in chronic stroke. *Society for Neuroscience Abstracts*, 311.08.
44. Smith CR, Hetherington A, Silfies S, **Stewart JC.** (2018). Scaling of muscle activation during 3D reach actions. *Society for Neuroscience Abstracts*, 401.08.
45. Hayward K, Ferris J, Lohse K, Borich M, Cramer S, Borstad A, **Stewart J**, Cassidy J, Neva J, Boyd L. (2018). Biomarkers of upper limb outcome post-stroke: moving beyond one-size-fits-all. *11th World Stroke Congress.*
46. Goh HT, **Stewart JC.** (2018). Post-stroke fatigue is associated with cognitive function and information processing speed. *American College of Rehabilitation Medicine Annual Conference.*
47. Baird J, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, Fritz SL, Den Ouden DB, **Stewart JC.** (2018). The effect of exercise intensity on the kinematics of reach performance and brain-derived neurotrophic factor. *Annual Meeting of the American College of Sports Medicine.*
48. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, Fritz SL, Den Ouden DB, **Stewart JC.** (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.*

49. **Stewart JC**, Baird J, Foster A, Fritz SL, Fridriksson J. (2018). Targeted engagement of the premotor component of the motor network after stroke. *International Stroke Conference*.
50. Liuzzo DM, Plummer P, **Stewart JC**, Fritz SL. (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*.
51. Jordon M, Silfies SP, Beattie PF, Vendemia JM, **Stewart JC**. (2018). Brain activation during lumbopelvic exercises: an fMRI study. *Combined Sections Meeting of the APTA*.
52. Gunn L, Magnuson J, Iglowski N, Morgan B, **Stewart J**, Fritz S, Arnot C. (2018). Instrumented-assisted soft tissue mobilization and proprioceptive neuromuscular facilitation techniques improve hamstring flexibility better than static stretching. *Combined Sections Meeting of the APTA*.
53. Regan E, Fridriksson J, Schaefer SY, Rorden C, Bonilha L, Van Gilder JL, **Stewart JC**. (2017). Neural correlates of within session changes on a simulated feeding task in individuals with mild motor impairment after stroke. *American Society of Neurorehabilitation Annual Meeting*.
54. Baird JF, Gaughan ME, Saffer HM, Sarzynski MA, Herter TM, Fritz SL, Den Ouden DB, **Stewart JC**. (2017). The effect of energy-matched exercise intensity on brain-derived neurotrophic factor and motor learning. *Society for Neuroscience Abstracts*, 593.12.
55. Rizor EJ, Fridriksson J, Rorden C, Bonilha L, Yourganov G, Peters DM, Fritz SL, **Stewart JC**. (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.
56. **Stewart JC**, Hetherington A, Bruemmer D, Ichiyonagi T, Rocktaschel J, O'Donnell M, Simmons C, Herter TM. (2017). Effect of practice on the control of reach extent. *Society for Neuroscience Abstracts*, 405.03.
57. Hayward KS, Borich MR, Cramer SC, Borstad A, **Stewart JC**, Neva JL, Ferris JK, Cassidy J, Boyd LA. (2017). Regional diffusion differences in people with severe upper limb impairment post-stroke: a multicentre study. *Society for Neuroscience Abstracts*, 306.12.
58. Yazdani S, Yourganov G, Fridriksson J, Fritz S, **Stewart JC**, Herter TM. (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.
59. Baird JF, Pathak G, Cramer SC, **Stewart JC**. (2017). Segmentation of interhemispheric motor regions on the corpus callosum in stroke. *Annual Meeting of the Organization of Human Brain Mapping*.
60. Baird JF, **Stewart JC**. (2017). Development of a 3-dimensional motor learning task to investigate exercise-enhanced neuroplasticity. *Annual Meeting of the Southeast Chapter of the American College of Sports Medicine*.
61. Fritz SL, Handlery RA, Hainline G, Miller S, McManus A, Keown J, Horn C, Burke A, Purcell M, Liuzzo D, **Stewart J**. (2017). Taking the NExT step in promoting exercise after stroke: a community-based gym for survivors of stroke. *World Physical Therapy Conference*.
62. **Stewart JC**, Handlery K, Blanck E, Baird J, Pathak G, Fritz, SL. (2017). Targeted engagement of premotor cortex during task-oriented training after stroke: a case series. *Combined Sections Meeting of the APTA*.
63. Handlery R, Miller S, Hainline G, McManus A, Liuzzo D, **Stewart JC**, Fritz SL. (2017). The NExT step in promoting physical activity after stroke: a community-based gym for survivors of stroke. *Combined Sections Meeting of the APTA*.

64. Liuzzo DM, Plummer P, **Stewart JC**, Fritz SL. (2017). Functional reach, experience and age are weak predictors of walking speed while performing a bimanual task in healthy adults. *Combined Sections Meeting of the APTA*.
65. Baird J, **Stewart JC**. (2016). Sequence specific motor learning in an immersive virtual environment. *Society for Neuroscience Abstracts*, 332.23.
66. **Stewart JC**, Baird J, Pathak G, Cramer SC. (2016). Distribution of interhemispheric structural connections between motor regions on the corpus callosum in older adults. *Society for Neuroscience Abstracts*, 437.07.
67. Saba A, Baer J, Kolar M, O'Donnell M, Schaefer SY, **Stewart JC**. (2016). Effect of standing on Jebsen Taylor Hand Test performance. *North American Society for the Psychology of Sport and Physical Activity Annual Conference*.
68. Peters DM, **Stewart JC**, Richardson JD, Middleton A, Fridriksson J, Rorden C, Bonhilha L, Gleichgerricht E, Herter TM, Newman-Norlund RD, Fritz SL. (2016). Cortical disconnection of the ipsilesional primary motor cortex is associated with gait speed and upper extremity motor impairment in chronic stroke. *Combined Sections Meeting of the APTA*.
69. Liuzzo D, **Stewart JC**, Fritz S. (2016). 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. *Combined Sections Meeting of the APTA*.
70. **Stewart JC**, O'Donnell M, Handlery K, Winstein CJ. (2015). Relationship between skilled reach performance and corpus callosum integrity in individuals with mild motor impairment after stroke. *Society for Neuroscience Abstracts*, 610.24.
71. Harper G, Cramer SC, **Stewart JC**. (2015). Premotor-prefrontal connectivity during motor action selection after stroke. *Neural Control of Movement Society Satellite Meeting*, S-7.
72. **Stewart JC**, Quinlan EB, Dodakian L, McKenzie A, See J, Cramer SC. (2015). Role of contralesional hemisphere during paretic hand movement differs based on level of motor impairment. *International Stroke Conference*, 5. *Selected as among the top 10% of accepted rehabilitation abstracts
73. Dewanjee P, Tran G, **Stewart JC**, Quinlan EB, Dodakian L, McKenzie A, See J, Cramer SC. (2015). Structural integrity of the corpus callosum correlates with sensorimotor impairment after stroke. *International Stroke Conference*, 2.
74. **Stewart JC**, Dewanjee P, Quinlan EB, Dodakian L, McKenzie A, See J, Cramer SC. (2014). Relationship between M1-M1 coupling during paretic hand movement and corpus callosum integrity after stroke. *Society for Neuroscience Abstracts*, 443.18.
75. **Stewart JC**, Burke E, Dodakian L, McKenzie A, See J, Cramer SC. (2014). Effective connectivity during paretic hand movements after stroke: effect of side of brain damage. *Annual Meeting of the Organization of Human Brain Mapping*, 3340.
76. Dodakian L, **Stewart JC**, Cramer SC. (2014). Motor imagery during movement activates the brain more than movement alone after stroke. *International Stroke Conference*, 153.
77. **Stewart JC**, Dewanjee P, Shariff U, Cramer SC. (2014). Action selection for paretic hand movements leads to increased activation in the contralesional hemisphere after stroke. *J Neurol Phys Ther*, 38, 24.
78. **Stewart JC**, Cramer SC. (2013). Increased activation in premotor and prefrontal cortices relates to poorer motor action selection performance after stroke. *Society for Neuroscience Abstracts*, 273.06.
79. **Stewart JC**, Shariff U, Dewanjee P, Cramer SC. (2013). Neural correlates of motor action selection after stroke. *Annual Meeting of the Organization for Human Brain Mapping*, 1246.

80. **Stewart JC**, Tran X, Cramer SC. (2013). Two distinct patterns of brain activation during motor action selection in older adults. *Neural Control of Movement Society Annual Meeting*.
81. **Stewart JC**, Tran X, Cramer SC. (2012). Neural correlates of motor action selection in older adults. *Society for Neuroscience Abstracts*, 381.18.
82. **Stewart JC**, Wagner J, Gordon J, Winstein CJ. (2011). Anticipatory planning and compensatory adjustments to control reach distance after stroke. *Annual Conference of the American Physical Therapy Association*. (Also presented at the 2011 *California Physical Therapy Association Annual Conference*)
83. **Stewart JC**, Lewthwaite R, Winstein CJ. (2010). Self-efficacy for reach actions after stroke: a pilot study. *J Sport Exercise Psych*, 32, S131.
84. Lee J-Y, Lee J, Choi Y, Goh H, **Stewart J**, Lewthwaite R, Winstein C, Schweighofer N. (2010). Simultaneous practice rather than sequential practice of multiple tasks facilitates long-term retention of motor memory in patients with stroke. *Neural Control of Movement Society Annual Meeting*.
85. **Stewart JC**, Gordon J, Winstein CJ. (2009). Is the scaling of reach kinematics to 3-D virtual targets preserved after stroke? *J Neurol Phys Ther*, 33, 231.
86. **Stewart JC**, Gordon J, Winstein CJ. (2009). Initial plan and compensatory adjustments of unconstrained reach actions after sensorimotor stroke. *Society for Neuroscience Abstracts*, 568.13.
87. **Stewart JC**, Gordon J, Winstein CJ. (2009). Movement endpoint variability for unconstrained reach actions to 3-D virtual targets. *Neural Control of Movement Society Annual Meeting*.
88. **Stewart JC**, Gordon J, Winstein CJ. (2008). Anticipatory scaling of reach kinematics to 3-D virtual targets. *J Neurol Phys Ther*, 32, 219.
89. **Stewart JC**, Gordon J, Winstein CJ. (2008). Initial plan and early adjustments of unconstrained reach actions to 3-D virtual targets. *Society for Neuroscience Abstracts*, 861.24.
90. **Stewart JC**, Yoon, H, Yeh S, McLaughlin M, Rizzo A, Winstein CJ. (2007). Training reach movements in individuals with hemiparesis: effect of a virtual environment. *J Neurol Phys Ther*, 31, 192.
91. Whitford M, Chen S, **Stewart J**, Winstein C, Yeh S, Rizzo A, Yoon H, Li L, Jung Y, McLaughlin M, Lewthwaite R. (2007). Personalized task practice: Effectiveness of a virtual reality system for upper extremity rehabilitation in persons with chronic hemiparesis. *World Physical Therapy Conference*.
92. Goh H, Choi YG, **Stewart JC**, Lewthwaite R, Winstein CJ, Schweighofer N. (2007). Learning grip force modulation after stroke: What is the optimal practice schedule? *World Physical Therapy Conference*.
93. **Stewart JC**, Choi Y, Goh HT, Kantak S, Winstein CJ, Schweighofer N. (2005). Practice schedules to enhance grasp function following stroke. *Society for Neuroscience Abstracts*, 333.9.
94. Domholdt E, **Stewart JC**, Barr JO, Melzer BA. (2001). Entry-level doctoral degrees in physical therapy: Status as of Spring 2000. *Combined Sections Meeting of the American Physical Therapy Association*.

Conference Symposia Presentations

- 2025 Roman G, Merriwether EN, Thackeray AT, Coronado A, **Stewart JC**. Methodological lessons learned from the summer institute on randomized behavioral clinical trials
Combined Sections Meeting of the American Physical Therapy Association, Houston, TX
- 2021 **Stewart JC**, Goh HT, Kantak S, Peters S. More than apraxia: role of motor planning in skilled movement after stroke
Combined Sections Meeting of the American Physical Therapy Association, Virtual

- 2019 **Stewart JC**, Lewis A, Handlery K, Lockhart O. Challenge and progression during task-oriented arm training after stroke: guiding principles and practical applications
South Carolina Physical Therapy Association Annual Conference, Greenville, SC
- 2018 Borich M, Cassidy J, Hayward K, **Stewart JC**. Neuroimaging biomarkers and predictors of motor recovery: Implications for PTs
Combined Sections Meeting of the American Physical Therapy Association. New Orleans, LA
- 2016 **Stewart JC**. Task-oriented training after stroke: how do we optimize task practice?
South Carolina Physical Therapy Association Annual Conference, Charleston, SC
- 2016 Jain T, Smith D, **Stewart JC**, Swanson K, Tevald M. Getting your first academic job: a guide for students, post-docs and clinicians
Combined Sections Meeting of the American Physical Therapy Association, Anaheim, CA
- 2013 **Stewart JC**, Schaefer S. Altering task conditions to influence motor behavior after stroke
Combined Sections Meeting of the American Physical Therapy Association. San Diego, CA

Invited External Presentations

- 2022 Training arm function after stroke: more than executing movement
Behind the Science Seminar Series, Cleveland FES Center, Cleveland, OH
- 2022 Career Development Panel – Lessons Learned: Lab Leadership and Management
Annual Meeting of the American Society of Neurorehabilitation, St. Louis, MO
- 2020 Engagement of the action selection network during arm training after stroke
Shrier Family Visiting Scholar Lecture in Rehabilitation Science, Moss Rehabilitation Hospital, Philadelphia, PA
- 2017 Intensity and challenge in task-oriented training after stroke
Healthsouth Rehabilitation Hospital, Columbia, SC
- 2016 Individualizing rehabilitation after stroke: role of genetic variation
IV STEP: Prevention, Prediction, Plasticity, and Participation, Columbus, OH
- 2015 Motor rehabilitation after stroke: How do we optimize task practice?
12th Annual University of Utah Stroke Symposium, Salt Lake City, UT
- 2013 Role of motor planning in the performance and learning of skilled actions after stroke
Orange County Stroke Rehabilitation Network Workshop. Orange, CA
- 2013 Planning skilled motor actions: behavioral and neural changes after stroke
Department of Physical Therapy, The Ohio State University, Columbus, OH
- 2013 Planning skilled motor actions: behavioral and neural changes after stroke
Department of Physical Therapy, Indiana University-Purdue University Indianapolis, Indianapolis, IN
- 2013 Planning skilled motor actions: behavioral and neural changes after stroke
Department of Exercise Science, University of South Carolina, Columbia, SC
- 2012 Neural correlates of action selection after stroke: pilot results
Neurorehabilitation Research Laboratory, Washington University, St. Louis, MO
- 2011 Neuroplasticity: Theory to Practice
Association of Rehabilitation Nurses National Conference, Las Vegas, NV

Invited Internal Presentations

- 2020 Mentorship Panel, PhD Student and Postdoctoral Professional Development Seminar
Department of Communication Sciences and Disorders, University of South Carolina, Columbia, SC
- 2020 Preparing for a Faculty Position and Planning for Success Panel
Grad 801: Graduate Student as Scholar, Presidential Fellows, Graduate School, University of South Carolina, Columbia, SC
- 2019 Engagement of the action selection network during functional arm training after stroke
Institute of Mind and Brain Seminar Series, University of South Carolina, Columbia, SC
- 2017 Brain-behavior relationship after stroke: relevance to rehabilitation
Biomedical Sciences Seminar, School of Medicine, University of South Carolina, Columbia, SC
- 2015 Brain-behavior relationships and motor recovery after stroke
USC Neuroscience Retreat, University of South Carolina, Columbia, SC
- 2012 Neural correlates of action selection in older adults
Exercise and Rehabilitation Medicine Annual Retreat, University of California, Irvine, Irvine, CA
- 2011 Role of dorsal premotor cortex in motor preparation after stroke
Exercise and Rehabilitation Medicine Annual Retreat, University of California, Irvine, Irvine, CA

Ongoing Research Support

Co-Investigator

R15 HD109737 Goh (PI) 09/10/2023-09/09/2026
National Center for Medical Rehabilitation Research, National Institutes of Health \$372,827
Behavioral and neural correlates of post-stroke fatigue
Role: Co-Investigator
The aim of this study is to investigate the effects of a period of noninvasive brain stimulation on fatigue, perceived effort, and neural excitability and connectivity.

Completed Research Support

Principal Investigator

ASPIRE I Stewart (PI) 07/01/2019-09/30/2020
Office of Research, University of South Carolina \$14,929
Task-oriented training of arm function in standing after stroke: a pilot study
Role: Principal Investigator
One year no-cost extension due to COVID
The aim of this project is examine the feasibility and preliminary efficacy of arm training provided in a standing position in individuals with arm deficits due to stroke.

15SDG24970011 Stewart (PI) 07/01/2015-06/30/2019
Scientist Development Grant, American Heart Association National Affiliate \$308,000
Targeted engagement of the motor action selection network during arm rehabilitation after stroke
Role: Principal Investigator
The aim of this project is to investigate the feasibility of adding action selection demands to task-oriented training focused on the upper extremity in individuals with chronic stroke.
One year no-cost extension

R03 HD087481 Stewart (PI) 04/01/2016-03/31/2018
National Center for Medical Rehabilitation Research, National Institutes of Health \$140,734

Targeted engagement of the premotor-prefrontal motor circuit after stroke

Role: Principal Investigator

The aim of this project is to investigate the behavioral and neural effects of short term practice targeted at the premotor-prefrontal motor circuit after stroke.

ASPIRE I Stewart (PI) 05/16/2015-08/15/2016
Office of Research, University of South Carolina \$15,000
Deficits in planning reach distance after stroke: Motor capacity or learned non-use
Role: Principal Investigator
One year no-cost extension
The aim of this study is to further explore deficits in the use of planning to control reach extent after stroke by examining how motor capacity to generate force quickly and arm non-use relate to the utilization of planning.

California Physical Therapy Fund Stewart (PI) 2009-2010
Planning Reach Actions after Sensorimotor Stroke: Relationship between Behavioral \$5,000
Performance and Lesion Characteristics
Role: Principal Investigator
The goal of this study was to examine the relationship between characteristics of the stroke lesion and corticospinal tract integrity and kinematic measures of skilled reaching after stroke.

Co-Investigator

Excellence Initiative Fridriksson (PI) 2019-2024
Office of the Provost, University of South Carolina \$4,000,000
Aging brain cohort at the University of South Carolina (ABC@USC)
Role: Co-Investigator
The goal of this project is to develop a longitudinal and cross-sectional database that includes neuroimaging, neuropsychological, genetic, and biographical information to examine factors that influence brain health across the adult lifespan.

R01 HD095959 Vendemia/Silfies (Co-PIs) 09/10/2018-05/31/2022
National Center for Medical Rehabilitation Research, National Institutes of Health \$1,572,794
Linking altered cortical sensorimotor integration with movement impairments in back pain
Role: Co-Investigator
The aim of this study is to examine brain activation during sensory and motor stimulation and how activation relates to trunk movement in individuals with low back pain.
No-cost extension

Research Grant Goh (PI) 12/01/2021-12/31/2023
Woodcock Institute \$15,000
Neuro-efficiency: neural basis of perceived effort during movement
Role: Co-Investigator
The aim of this study is to exam the neural basis of perceived effort during reaching using functional near infrared spectrography (fNIRS) and how these variables relate to fatigue.

Research Enhancement Program Goh (PI) 09/01/2019-08/31/2021
Office of Research and Sponsored Programs, Texas Women's University \$9,833
Post-stroke fatigue: a motor control deficit?
Role: Co-Investigator
The aim of this study is to determine the relationship between post-stroke fatigue, reach performance, and corticospinal excitability in individuals with chronic stroke.

17GRNT33670098 Herter (PI) 07/01/2017-06/30/2019
Grant-in-Aid, American Heart Association \$154,000

Abnormal visual search and motor function in stroke

Role: Co-Investigator

The aim of this project to determine the extent to which impaired visual search contributes to post-stroke deficits in functional motor performance.

Mentor

20PRE35180106 Lewis (PI) 01/01/2020-12/31/2021
Predoctoral Fellowship, American Heart Association \$62,032

Effects of social comparative feedback during practice on motor sequence learning and resting state connectivity

Role: Mentor

The purpose of this study is to examine the effects of positive social comparative feedback during practice of a motor sequence task on learning, self-efficacy, and resting state functional connectivity of the reward neural network.

No-cost extension through March 2022

F31 AG062057 VanGilder (PI) 12/01/2018-11/30/2021
National Institute on Aging, National Institutes of Health \$125,485

Using diffusion tensor imaging to identify the structural neural correlates of visuospatial and motor skill learning processes

Role: Co-Mentor (Primary Mentor: Sydney Schaefer, PhD, Arizona State University)

The aim of this project is to determine if the structural integrity of the superior longitudinal fasciculus predicts visuospatial function and motor skill learning in older adults. My specific mentorship role is in the analysis and interpretation of diffusion tensor imaging data for determining white matter tract integrity.

Chancellor's Research Fellows Program Goh (PI) 09/01/2018-08/31/2019
Office of Research and Sponsored Programs, Texas Women's University \$8,000

Neurophysiological correlates of post-stroke fatigue

Role: Mentor

The aim of the project is to identify neurophysiological correlates of fatigue in chronic stroke and for the PI to develop neuroimaging skills for this and future projects.

Trainee

T32 NIAMS AR47752 Caiozzo (PI) 10/2010-10/2013

Multidisciplinary Exercise Sciences Training Program

Role: Postdoctoral Trainee (Mentor: Steven C. Cramer)

The goal of the research project completed during this funding period was to determine the behavioral and neural correlates of motor action selection after stroke.

Promotion of Doctoral Studies II Scholarship Stewart (PI) 08/2009-07/2010
Foundation for Physical Therapy \$15,000

Planning of Unconstrained Reach Actions after Unilateral Sensorimotor Stroke

Role: Trainee/Principal Investigator (Mentor: Carolee J. Winstein)

The goal of this study was to determine the utilization of anticipatory planning and feedback based adjustments to control reach extent after stroke.

Promotion of Doctoral Studies II Scholarship Stewart (PI) 08/2008-07/2009
Foundation for Physical Therapy \$15,000

Planning of Unconstrained Reach Actions after Unilateral Sensorimotor Stroke

Role: Trainee/Principal Investigator (Mentor: Carolee J. Winstein)

The goal of this study was to determine the utilization of anticipatory planning and feedback based adjustments to control reach extent after stroke.

Mary McMillian Doctoral Scholarship	Stewart (PI)	08/2003-07/2004
Foundation for Physical Therapy		\$5,000
Role: Trainee/Principal Investigator (Mentor: Carolee J. Winstein)		
The purpose of this scholarship was to support doctoral studies in the first year of training.		

Teaching

2021 –	EXSC 775 Neural Basis of Skilled Motor Behavior Department of Exercise Science, University of South Carolina
2020 –	PHYT 807 Neuroplasticity and Genetics in Rehabilitation Physical Therapy Program, Department of Exercise Science, University of South Carolina
2018 – 2019	PHYT 809 Neuromuscular Assessment and Treatment I, Assistant Instructor Physical Therapy Program, Department of Exercise Science, University of South Carolina
2018	EXSC 755 Neural Basis of Skilled Motor Behavior Department of Exercise Science, University of South Carolina
2017 –	PHYT 731/EXSC 731 Mechanisms of Motor Skill Performance Physical Therapy Program, Department of Exercise Science, University of South Carolina
2016	EXSC 755 Neural Basis of Skilled Motor Behavior Department of Exercise Science, University of South Carolina
2014 – 2016	PHYT 810 Neuromuscular Assessment and Treatment II Physical Therapy Program, Department of Exercise Science, University of South Carolina
2014 – 2017	PHYT 760 Orthotics and Prosthetics Physical Therapy Program, Department of Exercise Science, University of South Carolina
2008 – 2016	PT 900 Motor Control and Motor Learning Department of Physical Therapy, University of Tennessee Health Science Center-Memphis

Research Mentorship

Postdoctoral Research Fellows

Tarkesh Singh, PhD (2014 - 2015)
Co-mentored with Troy Herter, PhD

Doctor of Philosophy (PhD) Students

Dissertation Committee Chair

Taelee Lee (2025 –)
Presidential Fellowship, Graduate School, University of South Carolina, 2025-2029 (\$48,000)

Rushali Pandya (2022 –)
Norman J. Arnold Doctoral Fellowship, Arnold School of Public Health, University of South Carolina 2022-2023 (\$20,000)

Charles Smith (2017 – 2022)
Dissertation: Using a multi-direction reaching approach to investigate Fitts' Law and the effect of attentional focus on motor learning
Norman J. Arnold Doctoral Fellowship, Arnold School of Public Health, University of South Carolina 2018-2019 (\$10,000)

2020-2021 SPARC Grant Recipient, Office of Research, University of South Carolina, (\$3,800); Title: Effect of attentional focus instructions on learning a whole-arm three-dimensional motor sequence task
Current Position: Instructor, Anatomy & Physiology, Biology Department, College of Arts & Sciences, University of South Carolina

Allison Foster Lewis (2017 – 2022)

Dissertation: Effects of social comparative feedback during practice on motor sequence learning, performance expectancies, and resting state connectivity

2022 Breakthrough Graduate Scholar Award, Office of the Vice President for Research, University of South Carolina

Best Poster Award-Basic or Applied Research, Stroke Special Interest Group, Academy of Neurologic Physical Therapy, Combined Section Meeting of the APTA, 2019

Presidential Fellowship, Graduate School, University of South Carolina, 2017-2021 (\$32,000)

Norman J. Arnold Doctoral Fellowship, Arnold School of Public Health, University of South Carolina 2018-2019 (\$10,000)

2019-2020 SPARC Grant Recipient, Office of Research, University of South Carolina, (\$4,337); Title: Effects of social comparative feedback on motor sequence learning

Current Position: Postdoctoral Research Fellow, Medical University of South Carolina (Aiko Thompson, PhD)

Jessica Baird (2015 – 2017)

Dissertation: The effect of energy-matched exercise intensity on brain-derived neurotrophic factor and motor learning

PhD Student Poster Award Finalist, Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, 2017

Norman J. Arnold Doctoral Fellowship, Arnold School of Public Health, University of South Carolina 2016-2017 (\$10,000)

Completed Postdoctoral Research Fellowship, University of Alabama at Birmingham (Robert Motl, PhD)

Current Position: Research Navigator, Division of Brain Injury Outcomes (BIOS), Johns Hopkins-Tufts Trial Innovation Center, Johns Hopkins School of Medicine

Dissertation Committee Member

Jongwon Lee (2025 –)

Dissertation: From daily movement behavior patterns to innovative exercise intervention: potential strategies for fall prevention

Pradeep Sahu (2023 – 2025)

Dissertation: Modeling the interaction between pain and movement: Insights from brain activation patterns and context-dependent emotion in chronic low back pain

John Gilliam (2022 – 2024)

Dissertation: Interface between cortical sensorimotor dynamics and trunk-hip movement control: implications for movement assessment in low back pain

Brett Gunn (2019 – 2021)

Dissertation: The influence of ADHD on concussion in NCAA college athletes

Reed Handlery (2019 – 2020)

Dissertation: Examination of daily steps in people with Parkinson's Disease and Stroke: two steps forward

Elizabeth Regan (2018 – 2020)

Dissertation: Integrating survivors of stroke into cardiac rehabilitation

Max Jordan (2016 – 2019)

Dissertation: Effects of spinal manipulation on brain activation in individuals with chronic low back pain

Kelly Anderson (2015 – 2017, Medical University of South Carolina)

Dissertation: Optimizing learning conditions in post-stroke rehabilitation: examining the role

of challenge

Derek Liuzzo (2014 – 2017)

Dissertation: The addition of a concurrent bimanual task influences postural sway and walking speed performance and prioritization across all ages

Denise Peters (2014 – 2015)

Dissertation: Correlations between white matter integrity, structural connectivity, and upper and lower extremity motor function in individuals with chronic stroke

Doctor of Physical Therapy (DPT) Students

Research Committee Chair

Christopher Commisso, Alex Harrison & Yadi Sims (2026 –)

Project: Measurement of upper extremity-cognitive dual-task performance in the nondominant hand

Jordan Adcox, Jessica Hoagland & Zach Slome (2026 –)

Project: Development of a paradigm to assess upper extremity reaching in standing

Meloney George & Nick Scicchitano (2025 –)

Project: Variation in arm use throughout the day in chronic stroke

Brantlee Ackerman, Dara Davidson & McKenna Simons (2025 –)

Project: Measurement of upper extremity-cognitive dual-task performance in controls

Emily Pence, Eric Stull & Allison Tracy (2024 – 2025)

Project: Development of a paradigm to assess upper extremity reaching in standing

Jonathan Burns, Quinn Cignarale & David James (2024 – 2025)

Project: Defining challenge during task-oriented arm training after stroke

Faith Schroers (2023 – 2025)

Project: Effect of practice on the control of reach extent

Macy Barclay, Carter Venancio & Aaron Walker (2022 – 2024)

Project: Neural correlates of hand strength versus hand dexterity in older adults

Jaclyn Altizio, Montana Swanson & Shelby Waites (2021 – 2023)

Project: Effect of descending corticospinal tract integrity on brain activation in motor premotor brain regions after stroke

Jeremy Bishop & Karah Sizemore (2020 – 2022)

Project: Effect of the BDNF polymorphism on learning of an action selection task after stroke

Hannah Roark, Macie Watkins & Joelle Via (2019 – 2021)

Project: Sequence-specific implicit motor learning using whole-arm three-dimensional reach movement of the non-dominant left arm

Kyle Corley, Jenny Heiser & Lynn Johnson (2019 – 2021)

Project: Effect of task-oriented arm training on corticospinal tract integrity in chronic stroke

Sean Buitendorp, Rebecca Hamod, & Kelly Shepherd (2018 – 2020)

Project: Test-retest reliability of fractional anisotropy of the interhemispheric M1-M1 white matter tract in chronic stroke

Sarah Padgett & Brian Kibler (2018 – 2019)

Project: Effect of action selection demands on the execution of a reach task with the nondominant left arm

Daniel Cho & Seth Frutiger (2016 – 2018)

Project: Effect of action selection demands on the execution of a reach task

Ashley Saba (2015 – 2016)

Project: Effect of position on upper extremity and hand function as measured by the Jebsen Taylor Hand Function Test

Dylan Bruemmer & Takeo Ichiyanagi (2015 – 2016)

Project: The effect of practice on the use of motor planning during a skilled reaching task

Research Committee Member

Class of 2027: Nick Anzelone, Joanna Wallen, Maddie LaRochelle, Jess Muller, Gina Harrison,

Erika Pierce

Class of 2025: Jordyn Mattison, Roxi Rikard, Kallie Faulker, Caitlin Lallier, Trystan Ruiz

Class of 2023: Lucas Frazier, Cesar Ramirez

Class of 2022: Robert Bayliss, Katie Cooper, Jake Turner, Jordan Bares, Dylan Davis, Jaylen Hiller

Class of 2021: Sophie Cobb, Ethan Hayes, Olivia Maddox, Seth Morris, Kaitlyn Piel, Greigory Seitz,
Jessica Kutcha, Chandler Powell, Owen Williams

Class of 2020: Jeffrey Dannelley, Ivan Kolev, Walter Pecor

Class of 2019: Anna Behnke, Susanne Shaw, Kayla Bishop

Class of 2018: Jennifer Harper, Sarah Nester

Class of 2017: Andrew Burke, Morgan Purcell, Jonathan Keown, Curtis Horn, Leanna Gunn

Class of 2016: Tristan Faile, Coleman Young, Garrett Hainline, Reed Handlery, Abigail McManus,
Shannie Miller, Justin Magnuson, Nicholas Iglowski

Class of 2015: Peter O'Donnell

Masters Students

Julia Cardarelli (2025 – 2026)

Kadiedra Porter (2024 – 2025)

Stephanie Caldero (2023 – 2024)

MS Outstanding Student Achievement Award, Department of Exercise Science, 2024

James Riedy (2022 – 2023)

Alexis Toomer (2019)

Janelle Rocktashel (2015 – 2017)

Gillian Harper (2014 – 2015)

Undergraduate Students

University of South Carolina

Rachel Carson (2026 –)

Journey Early Researchers Grant, USC Office of Undergraduate Research (\$1,000)

Hannah Kate Ammons (2023 – 2025)

Honors Thesis: Sequence learning with whole-arm movements: Effect of practice on
individual sequence components

2023 Science Undergraduate Research Fellowship, South Carolina Honors College (\$3,000)

Taylor Norment (2022 – 2023)

Morgan Davis (2021)

Mary Evelyn Brown (2020 – 2022)

Rachel Bohnenkamp (2019 – 2022)

Honors Thesis: Effects of genetic variation on response to social comparative feedback when
learning a motor task

Second place poster award, Heath Sciences, Discover USC 2022

2020 Science Undergraduate Research Fellowship, South Carolina Honors College (\$1,500)

2021 Magellan Scholar Research Grant, USC Office of Undergraduate Research (\$2,750)

Kathryn Maxwell (2019 – 2021)

Honors Thesis: The effect of standing capability on functional arm training in standing post-
stroke

Sarah Bradley (2019 – 2020)

Kiariah Muller (2019 – 2020)

Senior Thesis (Claflin University): Test-retest reliability of a measure of structural integrity of
interhemispheric motor pathways in chronic stroke

Summer research student from Claflin University

South Carolina-Advance Diversity in Aging Research (SC-ADAR) Program supported by the
National Institute on Aging (R25 AG050484)

Katelyn Ramey (2017 – 2019)

Makenzie Myers (2017 – 2019)

Honors Thesis: Test-retest reliability of a measure of corticospinal tract integrity after stroke
Outstanding Exercise Science Student Award, Department of Exercise Science, 2019
2018 Science Undergraduate Research Fellowship, South Carolina Honors College (\$3,000)
2018 Magellan Voyager Award, USC Office of Undergraduate Research (\$280)
2018 Scholarly Research Presentation Travel Support Program, South Carolina Honors College (\$280)

Joshua Ray (2017 – 2018)

Jenny Heiser (2017 – 2018)

Second place poster award, Heath Sciences, Discover USC 2018

Mary Gaughen (2016 – 2018)

2017 Magellan Apprentice Grant Award, USC Office of Undergraduate Research (\$1000)
2017 Magellan Mini-Grant Award, USC Office of Undergraduate Research (\$750)
2018 Magellan Apprentice Grant Award, USC Office of Undergraduate Research (\$1000)

Elizabeth Rizer (2016 – 2018)

Honors Thesis: Functional neural correlates of hand motor function differ based on level of motor severity in individuals post-stroke

Finalist, William A. Mould Thesis Award, South Carolina Honors College, 2018

Outstanding Exercise Science Student Award, Department of Exercise Science, 2018

Second place poster award, Public Health, Discover USC 2017

First place poster award, Health Sciences, Discover USC 2018

2016 Science Undergraduate Research Fellowship, South Carolina Honors College (\$3,000)

2017 Science Undergraduate Research Fellowship, South Carolina Honors College (\$1,500)

2017 Magellan Voyager Award, USC Office of Undergraduate Research (\$435)

2017 Scholarly Research Presentation Travel Support Program, South Carolina Honors College (\$610)

Austin Hetherington (2016 – 2018)

First place poster award, Public Health, Discover USC 2017

2016 Science Undergraduate Research Fellowship, South Carolina Honors College (\$3,000)

2017 Magellan Scholar Research Grant, USC Office of Undergraduate Research (\$2,626)

2017 Magellan Voyager Award, USC Office of Undergraduate Research (\$450)

2017 Scholarly Research Presentation Travel Support Program, South Carolina Honors College (\$450)

Heath Saffer (2016 – 2017)

Kelly Deangelis (2015 – 2017)

Second place poster award, Public Health, Discover USC 2017

John Pai (2015 – 2016)

Morgan Durand (2015 – 2016)

Second place poster award, Exercise Science and Physical Education, 2016 Undergraduate Discovery Day

Abigail Sullivan (2014 – 2016)

Michael O'Donnell (2014 – 2015)

First place poster award, Exercise Science and Physical Education, 2015 Undergraduate Discovery Day

University of California, Irvine

Pritha Dewanjee (2012 – 2014)

Undergraduate Research Opportunities Program Grant Recipient

Excellence in Undergraduate Research Poster Award

Umar Shariff (2012 – 2013)

Xuan Tran (2011 – 2012)

Undergraduate Research Opportunities Program Grant Recipient

Professional Licenses and Certifications

1995 –	Licensed Physical Therapist, South Carolina	License # 2660
1995 – 2024	Licensed Physical Therapist, Indiana	License # 05004565A
2002 – 2014	Licensed Physical Therapist, California	License # PT-27502
2003 – 2013	Board Certified in Neurologic Physical Therapy	
	American Board of Physical Therapy Specialties, American Physical Therapy Association	

Professional Memberships

1995 –	American Physical Therapy Association
	Section Member: Neurology, Research, Education
2005 –	Society for Neuroscience
2007 –	North American Society for the Psychology of Sport and Physical Activity
2009 – 2018	Society for the Neural Control of Movement
2011 –	Organization for Human Brain Mapping
2013 –	American Heart Association
2015 –	American Society for Neurorehabilitation

Professional and University Service

Journal Editorial Board

Journal of Neurologic Physical Therapy	
2024 –	Deputy Editor
2022 – 2024	Associate Editor
2021	Editorial Board Member

Frontiers in Rehabilitation Sciences	
Section: Translational Research in Rehabilitation	
2022 – 2024	Associate Editor

Experimental Brain Research	
2021 –	Editorial Board Member

Ad Hoc Manuscript Reviewer

Neurorehabilitation & Neural Repair
Physical Therapy
Journal of Neurologic Physical Therapy
Experimental Brain Research
Annals of Neurology
Neurology
Human Brain Mapping
Neuroimage: Clinical
Neuroimage
Journal of NeuroEngineering & Rehabilitation
PLoS One
Scientific Reports
Journal of the American Heart Association
Neurobiology of Aging
Frontiers in Rehabilitation Sciences
Frontiers in Neurology
Journal of Motor Behavior
Neuroscience

Journal of the Neurological Sciences
Disability and Rehabilitation
Cerebral Cortex
Neural Plasticity
Physiotherapy Research International
Circulation: Cardiovascular Quality and Outcomes
IEEE Transactions on Neural Systems & Rehabilitation Engineering
JMIR Medical Informatics
Restorative Neurology and Neuroscience
Journal of Physiology
Human Movement Science
OTJR: Occupation, Participation, and Health

Grant Review Panel

2025 – 2028 Member, Scientific Review Committee, Foundation for Physical Therapy Research

2022 – 2025 Member, Rehabilitation Research and Development Service-Career Development Program
Subcommittee, Department of Veteran's Affairs

Ad Hoc Grant Reviewer

National Institutes of Health

Musculoskeletal Rehabilitation Science (MRS) Study Section, October 2025

Neurological Sciences Training Review Group (NST-2), National Institute of Neurological Disorders and
Stroke, March 2019, October 2019, November 2020, February 2021, March 2023, June 2023

Special Emphasis Panel (ZNS1 SRB-X (12)), National Institute of Neurological Disorders and Stroke,
October 2020

Pilot Project Grants, National Center of Neuromodulation for Rehabilitation (NC NM4R), NIH, April
2019, April 2020, December 2022

American Heart Association

Health Equity Research Network (HERN) on Community-Driven Research Approaches, Phase I and
Phase II, June 2024

Fellowships-Clinical Committee, October 2019, February 2021, November 2021, November 2022

Department of Veteran's Affairs

Rehabilitation Research and Development Service-Career Development Program Panel,
February 2022, February 2026

Professional Service

2025 – 2028 Director of Research, Academy Board of Directors
Academy of Neurologic Physical Therapy, American Physical Therapy Association

2025 Reviewer, Diversity Travel Fellowship
American Society of Neurorehabilitation

2024 Abstract Reviewer, World Physiotherapy Congress 2025
World Physiotherapy

2024	External Reviewer, Tenure and Promotion File, Peer Institution
2024	External Reviewer, Promotion File, Peer Institution
2023	External Reviewer, Tenure and Promotion File, International Peer Institution
2023	External Reviewer, Tenure and Promotion File, Peer Institution
2023 –	Committee Member, Program Committee American Society of Neurorehabilitation
2022 –	Abstract Reviewer, Combined Sections Meeting of the APTA Academy of Neurologic Physical Therapy, American Physical Therapy Association
2022	Abstract Reviewer, World Physiotherapy Congress 2023 World Physiotherapy
2021	External Reviewer, Tenure and Promotion File, Peer Institution
2020 – 2025	Member, Research Workgroup International Neurological Physical Therapy Association
2018 – 2021	Chair, Research Committee Academy of Neurologic Physical Therapy, American Physical Therapy Association
2017	Strategic Planning Meeting, Academy of Neurologic Physical Therapy American Physical Therapy Association
2015	Legislative Day, South Carolina Physical Therapy Association
2014	Abstract Reviewer, World Confederation for Physical Therapy Congress 2015 World Confederation for Physical Therapy
2014	Washington DC Legislative Fly-In, Section on Research American Physical Therapy Association
2012 – 2017	Committee Member, Research Committee Neurology Section, American Physical Therapy Association
2006 – 2010	Committee Member, Telecommunications Committee Neurology Section, American Physical Therapy Association
2006 – 2009	Item Writer, Specialization of Content Experts Committee Neurologic Certified Specialist Exam

University Service

University of South Carolina

2025 – 2026	Member, Graduate Council, Graduate School Academic Policy and Practices Committee
2025	Reviewer, ASPIRE Grant Award, Office of Research
2023	Brain Health and Human Anatomy Subcommittees, Health Sciences Campus Planning Committee
2022	Reviewer, Magellan Scholar Undergraduate Research Grant, Office of Research
2021	Reviewer, SPARC Graduate Research Grant, Office of Research

2020	Reviewer, SPARC Graduate Research Grant, Office of Research
2020	Reviewer, ASPIRE I Grant Award, Office of Research
2019	Reviewer, ASPIRE II Grant Award, Office of Research
2018	Member, Planning Committee, 2018 USC Neuroscience Retreat
2017 –	Judge, Poster Presentations, Discover USC
2017	Member, Planning Committee, 2017 USC Neuroscience Retreat
2016	Reviewer, ASPIRE I Grant Award, Office of Research
2015 – 2016	Judge, Undergraduate Discovery Day

Arnold School of Public Health

2020 –	Arnold School of Public Health Tenure & Promotion Committee
2019	Co-Chair, ASPH Team, Midlands Heart Walk, American Heart Association Received 'Top Recruiter' Award for recruiting the most walkers of any team at the University of South Carolina
2018	Co-Chair, ASPH Team, Midlands Heart Walk, American Heart Association Received 'Top Recruiter' Award for recruiting the most walkers of any team at the University of South Carolina
2015 – 2018	Scholastic Standards and Petitions Committee, Arnold School of Public Health

Department of Exercise Science

2026	Professional Track Faculty Annual Review Committee, Department of Exercise Science
2025 – 2026	Member, Clinical Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2024 – 2026	Chair, Tenure-Track Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2024 –	Chair, Curriculum Committee, Physical Therapy Program, Department of Exercise Science
2022	Member, Clinical Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2020 – 2021	Chair, Tenure-Track Faculty Search Committee, Department of Exercise Science
2020 – 2021	Member, Director of Clinical Education Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2019 – 2024	PhD Admissions and Curriculum Committee, Department of Exercise Science
2019 – 2021	Graduate Director, Rehabilitation Sciences Division, Department of Exercise Science
2018 – 2023	Awards Committee, Physical Therapy Program, Department of Exercise Science

2017 – 2018	Co-Chair, Tenure-Track Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2016 – 2018	Member, Committee for Doctor of Physical Therapy Program Reaccreditation, Physical Therapy Program, Department of Exercise Science
2016 – 2017	Member, Tenure-Track Faculty Search Committee, Department of Exercise Science
2016 – 2017	Member, Clinical Faculty Search Committee, Physical Therapy Program, Department of Exercise Science
2014 – 2023	Curriculum Committee, Physical Therapy Program, Department of Exercise Science
2014 – 2023	Admissions Committee, Physical Therapy Program, Department of Exercise Science

Community Service

2011 – 2013	Volunteer, Annual Stroke Boot Camp, Department of Physical Therapy, Chapman University, Orange, CA
2011 – 2013	Volunteer, Annual Stroke Awareness Picnic, Orange County Stroke Rehabilitation Network, Irvine, CA