

## Merrill R. Landers, PT, DPT, PhD

Department Chair and Professor

Cyrus Chung Ying Tang Foundation Research Professor

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### Education

Fellow	<b>Fellowship in Higher Education Leadership</b> Alexandria, Virginia	2013	American Physical Therapy Association Fellowship in Education Leadership
PhD	<b>University of Nevada, Las Vegas</b> Las Vegas, Nevada	2012	Biological Sciences (Integrative Physiology)
DPT	<b>Creighton University</b> Omaha, Nebraska	1997	Physical Therapy ( <i>cum laude</i> )
BS	<b>Brigham Young University</b> Provo, Utah	1993	Exercise Science

### Licensure

- Nevada State Board of Physical Therapy Examiners, License #1158

### Certifications

- Orthopedic Certified Specialist (OCS), American Board of Physical Therapy Specialties (2001), #4628 (Certification: May 16, 2001; Recertification: May 16, 2011, expired May 16, 2021)
- Certificate in Diversity, Equity and Inclusion in the Workplace, Office of Corporate Training and Professional Education, University of South Florida, May 2021

### Employment

July 2016 – present	<b>Professor</b> (Tenured) - Department of Physical Therapy, School of Allied Health Sciences, Division of Health Sciences, University of Nevada, Las Vegas
Aug 2015 – present	<b>Cyrus Chung Ying Tang Foundation Research Professorship</b>
July 2011 – present	<b>Chair</b> – Department of Physical Therapy, School of Allied Health Sciences, Division of Health Sciences, University of Nevada, Las Vegas
July 2007 – July 2016	<b>Associate Professor</b> (Tenured) – Department of Physical Therapy, School of Allied Health Sciences, Division of Health Sciences, University of Nevada, Las Vegas
June 2010 – Dec 2012	<b>Associate Professor</b> (Adjunct) – Doctor of Physical Therapy Program (Entry-Level), Rocky Mountain University of Health Professions, Provo, Utah
Aug 2001 – April 2007	<b>Assistant Professor</b> (tenure-track) – Department of Physical Therapy, School of Health and Human Sciences, Division of Health Sciences, University of Nevada, Las Vegas
Jan 2001 – Dec 2001	<b>Adjunct Faculty</b> – Physical Therapist Assistant Program, College of Southern Nevada
Dec 2000 – Aug 2001	<b>Clinician II Physical Therapist</b> – Healthsouth Sports Science and Rehabilitation Institute, 321 N Buffalo, Las Vegas, Nevada 89145
Sept 1997 – Dec 2000	<b>Senior Clinician Physical Therapist</b> – Healthsouth Sports Medicine and Rehabilitation, 1341 S Rainbow, Suite 201, Las Vegas, Nevada 89146

**Peer Reviewed Publications** ([Google Scholar](#), [orcid.org/0000-0002-4234-910X](https://orcid.org/0000-0002-4234-910X), [ResearcherID: P-6359-2014](#))

1. **Landers MR**, Deusinger SS. Building the science of physical therapy: conundrums and a wicked problem. *PTJ: Physical Therapy & Rehabilitation Journal*. 2023, in press.
2. Lima de Albuquerque L, Pantovic M, Clingo M, Fischer K, Jalene S, **Landers MR**, Mari Z, Poston B. A single application of cerebellar transcranial direct current stimulation does not affect motor performance in Parkinson's disease. *Biomedicines*. 2023, in press.
3. Bush EJ, Singh RL, Cox J, Cooley Hidecker MJ, **Landers MR**, Piccorelli AV. Coordinated telehealth for people with Parkinson's disease: a qualitative comparison of providers' and patients' experiences. *The Qualitative Report*. 2023, in print
4. Longhurst JK, Sreenivasan KR, Kim J, Cummings JL, John SE, Poston B, Cordes D, Rider JV, **Landers MR**. Cortical thickness is related to cognitive-motor automaticity in individuals with Alzheimer's disease: a regions of interest study. *Experimental Brain Research*. 2023;41(6):1489-1499. DOI: 10.1007/s00221-023-06618-5.
5. Longhurst JK, Rider JV, Cummings JL, John SE, Poston B, **Landers MR**. Cognitive-motor dual-task interference in Alzheimer's disease, Parkinson's disease, and prodromal neurodegeneration: a scoping review. *Gait & Posture*. 2023;105:58-74. DOI: 10.1016/j.gaitpost.2023.07.277
6. Davis DW, Carrier B, Cruz K, Barrios B, **Landers MR**, Navalta JW. A systematic review of the effects of meditative and mindful walking on mental and cardiovascular health. *International Journal of Exercise Science*. 2022;15(2):1692-1734.
7. Deusinger SS, **Landers MR**. Author response to Gordon and Tilson (Letter to the editor regarding Storm clouds on the horizon: the three perils of unconstrained academic growth in physical therapist education. *PTJ: Physical Therapy & Rehabilitation Journal*. 2022;102(11):1-6. DOI: 10.1093/ptj/pzac128
8. Rider JV, Longhurst JK, Lekhak N, Navalta J, Young DL, **Landers MR**. Psychological factors associated with fear of falling avoidance behavior in Parkinson's disease: the role of depression, anxiety and catastrophizing. *Journal of Geriatric Psychiatry and Neurology*. 2022:1-10. DOI: 10.1177/08919887221119974
9. Rider JV, Longhurst JK, Navalta J, Young DL, **Landers MR**. Fear of falling avoidance behavior in Parkinson's disease: most frequently avoided activities. *OTJR: Occupation, Participation and Health*. 2022:1-9. DOI: 10.1177/15394492221106103
10. Deusinger SS, **Landers MR**. Storm clouds on the horizon: the three perils of unconstrained academic growth in physical therapist education. *PTJ: Physical Therapy & Rehabilitation Journal*. 2022;102:1-6. DOI: 10.1093/ptj/pzac046
11. Louw A, Denninger TR, Lutz AD, Cox T, Zimney K, Puentedura EJ, **Landers MR**. The clinical impact of pain neuroscience continuing education on physical therapy outcomes for patients with low back and neck pain. *PLoS ONE*. 17(4): e0267157. DOI: 10.1371/journal.pone.0267157
12. Longhurst JK, Rider JV, Cummings JL, John SE, Poston B, Held-Bradford E, **Landers MR**. A novel way of measuring dual-task interference: the reliability and construct validity of the dual-task effect battery in neurodegenerative disease. *Neurorehabilitation and Neural Repair*. 2022;0:1-14. DOI: 10.1177/15459683221088864.
13. Nunes ACL, Moraleida FRJ, Lima PO, **Landers MR**. Translation, cross-cultural adaptation, and measurement properties of the Brazilian-Portuguese version of the Fear Falling Avoidance Behavior Questionnaire (FFABQ) in older adults. *Journal of Aging and Physical Activity*. 2022;March 30:1-10. DOI: 10.1123/japa.2021-0425
14. Rider JV, Longhurst JK, Lekhak N, Young DL, **Landers MR**. Fear of falling avoidance behavior assessment and intervention in Parkinson's disease: a scoping review. *Research and Reviews in Parkinsonism*. 2022;12:1-17. DOI: 10.2147/JPRLS.S350890
15. **Landers MR**, Nilsson MH. A theoretical framework for addressing fear of falling avoidance behavior in Parkinson's disease. *Physiotherapy Theory and Practice*. 2022, DOI: 10.1080/09593985.2022.2029655.

16. Longhurst JK, Cummings JL, John SE, Poston B, Rider JV, Salazar AM, Mishra VR, Ritter A, Caldwell JZ, Miller JB, Kinney JW, **Landers MR**. Dual task performance is associated with amyloidosis in cognitively healthy adults. *The Journal of Prevention of Alzheimer's Disease*. 2022;1-9. DOI: 10.14283/jpad.2022.1
17. Cooley Hidecker MJ, **Landers ML** (corresponding), Piccorelli A, Bush EJ, Singh R. Coordinated speech therapy, physiotherapy, and pharmaceutical care telehealth for people with Parkinson's disease in rural communities: an exploratory, 8-week cohort study for feasibility, safety, and signal of efficacy. *Rural and Remote Health*. 2022;22:6679. DOI:10.22605/RRH6679
18. Longhurst JK, Rider JV, Eckard K, Hammar R, Vukojevic F, Campbell J, **Landers MR**. Factors predicting fear of falling avoidance behavior in parkinsonisms. *NeuroRehabilitation*. 2022;50:65-73.
19. Lima de Albuquerque L, Pantovic M, Clingo M, Fischer K, Jalene S, **Landers MR**, Mari Z, Poston B. Long-term application of cerebellar transcranial direct current stimulation does not improve motor learning in Parkinson's disease. *Cerebellum*. 2021 Jul. DOI: 10.1007/s12311-021-01297-w. PMID: 34232470; PMCID: PMC8260571.
20. **Landers MR**, Jacobson KM, Matsunami NE, McCarl HE, Regis MT, Longhurst JK. A vicious cycle of fear of falling avoidance behavior in Parkinson's disease: a path analysis. *Clinical Parkinsonism & Related Disorders*. 2021;4:100089. DOI:10.1016/j.prdoa.2021.100089
21. de Albuquerque LL, Pantovic M, Clingo M, Fischer K, Jalene S, **Landers MR**, Mari Z, Poston B. An acute application of cerebellar transcranial direct current stimulation does not improve motor performance in Parkinson's disease. *Brain Sciences*. 2020;10(10):735, DOI.10.3390/brainsci10100735
22. Longhurst JK, Phan J, Chen E, Jackson S, **Landers MR**. Physical therapy for gait, balance, and cognition in individuals with cognitive impairment: a retrospective analysis. *Rehabilitation Research and Practice*. 2020;8861004. DOI:10.1155/2020/8861004
23. **Landers MR**, Ellis TD. A mobile application specifically designed to facilitate exercise in Parkinson disease: a single-cohort pilot study on feasibility, safety, and signal of efficacy. *JMIR Mhealth and Uhealth*. 2020;8(10):e18985, DOI:10.2196/18985
24. Louw A, Landrus R, Podolak J, Benz P, DeLorenzo J, Davis C, Rogers A, Cooper L, Louw C, Zimney K, Puentedura E, **Landers MR**. Behavior change following pain neuroscience education in middle schools: a public health trial. *International Journal of Environmental Research and Public Health*. 2020;17:4505. DOI.10.3390/ijerph17124505
25. Longhurst JK, Wise MA, Krist DJ, Moreland CA, Basterrechea JA, **Landers MR**. Brain volumes and dual-task performance correlates among individuals with cognitive impairment: a retrospective analysis. *Journal of Neural Transmission*. 2020; 127:1057-1071. DOI.10.1007/s00702-020-02199-7
26. **Landers MR**. Evidence that exercise is neuroprotective in Parkinson's disease. *Synapse*. March 2020:16-19.
27. Louw A, Vogsland R, Marth, **Landers MR**, Cox T. Interdisciplinary pain neuroscience continuing education in the Veteran's Affairs: live training and live-stream with 1-year follow-up. *Clinical Journal of Pain*. 2019;35:901-907. DOI.10.1097/AJP.0000000000000756
28. **Landers MR**, Johnson KN, Johnson S, Lyle J, Ormsby T, Salgo DC, Zorn JB, Murtishaw AS, Salazar AM, Kinney JW. Pre-diagnosis physical activity habits are associated with age of diagnosis in Parkinson's disease. *Clinical Parkinsonism & Related Disorders*. 2019;1:25-30. DOI.10.1016/j.prdoa.2019.07.004
29. Louw A, Puentedura EJ, Reed J, Zimney K, Grimm D, **Landers MR**. A controlled clinical trial of preoperative pain neuroscience education for patients about to undergo total knee arthroplasty. *Clinical Rehabilitation*. 2019;33:1722-1731. DOI.10.1177/0269215519857782
30. **Landers MR**, Navalta JW, Murtishaw AS, Kinney JW, Pirio Richardson S. A high-intensity exercise boot camp for persons with Parkinson disease; a phase II, pragmatic, randomized clinical trial of feasibility, safety, signal of efficacy, and disease mechanisms. *Journal of Neurologic Physical Therapy*. 2019;43:12-25. DOI.10.1097/NPT.0000000000000249

31. Louw A, Zimney K, Reed J, **Landers MR**, Puentedura EJ. Immediate preoperative outcomes of pain neuroscience education for patients undergoing total knee arthroplasty: a case series. *Physiotherapy Theory and Practice*. 2019;35:543-553. DOI.10.1080/09593985.2018.1455120
32. Eggleston JD, **Landers MR**, Bates BT, Nagelhout E, Dufek JS. Weighted walking influences lower extremity coordination in children on the autism spectrum. *Perceptual and Motor Skills*. 2018;125:1103-1122. DOI.10.1177/0031512518803178
33. Baer M, Klemetson B, Scott D, Murtishaw AS, Navalta JW, Kinney JW, **Landers MR**. Effects of fatigue on balance in individuals with Parkinson disease: influence of medication and brain-derived neurotrophic factor genotype. *Journal of Neurologic Physical Therapy*. 2018;42:61-71. DOI.10.1097/NPT.0000000000000213
34. Eggleston J, **Landers MR**, Bates BT, Nagelhout E, Dufek JS. Examination of gait parameters during perturbed over-ground walking in children with autism spectrum disorder. *Research in Developmental Disabilities*. 2018;74:50-56. DOI.10.1016/j.ridd.2018.01.004
35. **Landers MR**, Donatelli R, Nash J, Bascharon R. Evidence of dynamic visual acuity impairment in asymptomatic mixed martial arts fighters. *Concussion*. 2017;2:CNC41. DOI.10.2217/cnc-2016-0032
36. **Landers MR**, Lopker M, Newman M, Gourlie R, Sorensen S, Vong C. A cross-sectional analysis of the characteristics of individuals with Parkinson disease who avoid activities and participation due to a fear of falling. *Journal of Neurologic Physical Therapy*. 2017;41(1):31-42. DOI.10.1097/NPT.0000000000000162
37. Louw A, Zimney K, **Landers MR**. Assessing posture in the individual with fibromyalgia, what's the value? *Journal of the Physiotherapy Pain Association*. 2017;42:15-23.
38. Louw A, Farrell K, **Landers MR**, Barclay M, Goodman E, Gillund J, Oberhoffer S, Davis L, McCaffrey S, Timmerman L. The effect of manual therapy and neuroplasticity education on chronic low back pain: a randomized clinical trial. *Journal of Manual & Manipulative Therapy*. 2017;25:227-234. DOI.10.1080/10669817.2016.1231860.
39. Louw A, Diener I, **Landers MR**, Zimney K, Puentedura EJ. Three-year follow-up of an RCT comparing preoperative neuroscience education for patients undergoing surgery for lumbar radiculopathy. *J Spine Surg*. 2016;2(4):289-298. DOI.10.21037/jss.2016.12.04
40. **Landers MR**, Oscar S, Sasaoka J, Vaughn K. Balance confidence and fear of falling avoidance behavior are most predictive of falling in older adults: prospective analysis. *Physical Therapy*. 2016;96:433-442. DOI.10.2522/ptj.20150184
41. **Landers MR**, Hatlevig RM, Richards AR, Davis AD, Rosenlof LE. Does attentional focus during balance training in people with Parkinson's disease affect outcome? A randomised controlled clinical trial. *Clinical Rehabilitation*. 2016;30(1):53-63. DOI.10.1177/0269215515570377
42. Louw A, Zimney K, **Landers MR**, Luttrell M, Clair B, Mills J. A randomised controlled trial of "clockwise" ultrasound for low back pain. *South African Journal of Physiotherapy*. 2016;72(1):a306. DOI.10.4102/sajp.v72i1.306
43. Warren CD, Szymanski DJ, **Landers MR**. Effects of three recovery protocols on range of motion, heart rate, rating of perceived exertion, and blood lactate in baseball pitchers during a simulate game. *Journal of Strength and Conditioning Research*. 2015;29(11):3016-25. DOI.10.1519/JSC.0000000000000487.
44. Louw A, Diener I, **Landers MR**, Puentedura EJ. Preoperative pain neuroscience education for lumbar radiculopathy: a multi-center randomized controlled trial with one-year follow-up. *Spine*. 2014;39(18):1449-1457. DOI.10.1097/BRS.0000000000000444
45. **Landers MR**, Puentedura EL, McCauley A, Rasmussen Z, Louw A, Bungum T. A population-based survey of lumbar surgery beliefs in the United States. *Orthopaedic Nursing*. 2014;33:207-216. DOI.10.1097/NOR.0000000000000064

46. Kaufman DR, Puckett MJ, Smith MJ, Wilson K, Cheema R, **Landers MR**. Test-retest reliability and responsiveness of dynamic visual acuity and gaze stability in high school and college football players. *Physical Therapy in Sport*. 2014;15:181-188. DOI.10.1016/j.ptsp.2013.10.002
47. **Landers MR**, Kinney JW, van Breukelen F. Forced exercise before or after induction of 6-OHDA-mediated nigrostriatal insult does not mitigate behavioral asymmetry in a hemiparkinsonian rat model. *Brain Research*. 2014;1543:263-270. DOI.10.1016/j.brainres.2013.10.054
48. **Landers MR**, Addis KA, Longhurst JK, vom Steeg B, Puentedura E, Daubs M. Anterior cervical decompression and fusion on neck range of motion, pain, and function: a prospective analysis. *The Spine Journal*. 2013;13:1650-1658. DOI.10.1016/j.spinee.2013.06.020
49. **Landers MR**, Kinney JW, Allen DN, van Breukelen F. A comparison of voluntary and forced exercise in protecting against behavioral asymmetry in a juvenile hemiparkinsonian rat model. *Behavioural Brain Research*. 2013;248:121-128. DOI.10.1016/j.bbr.2013.04.002
50. Bungum T, **Landers MR**, Azzarelli M, Moonie S. Perceived environmental physical activity correlates among Asian Pacific Islander Americans. *Journal of Physical Activity & Health*. 2012;9:1098-1104. DOI.10.1123/jpah.9.8.1098
51. Puentedura EL, March J, Anders J, Perez A, **Landers MR**, Wallmann HW, Cleland JA. Safety of cervical spine manipulation: are severe adverse events preventable and are manipulations being performed appropriately? a review of 134 case reports. *Journal of Manual & Manipulative Therapy*. 2012;20:66-74. DOI.10.1179/2042618611Y.0000000022
  - a. 2012 John Medeiros Best Paper Award from the *Journal of Manual & Manipulative Therapy*
52. Puentedura EL, Cleland J, Mintken P, Louw A, **Landers MR**, Fernandez de las Penas C. Development of a clinical prediction rule to identify patients with neck pain likely to benefit from thrust joint manipulation to the cervical spine. *Journal of Orthopaedic & Sports Physical Therapy*. 2012;42:577-592. DOI.10.2519/jospt.2012.4243
  - b. 2013 Rose Excellence in Research Award from the Orthopaedic Section (APTA)
53. Young DL, Shen JJ, Estocado N, **Landers MR**. Financial impact of improved pressure ulcer staging in the acute hospital with the use of a new tool, the NE1 Wound Assessment Tool. *Advances in Skin & Wound Care*. 2012;25:158-166. DOI.10.1097/01.ASW.0000413597.20438.d2
54. McWhorter JW, **Landers MR**, Young D, Puentedura EL, Hickman RA, Brooksby C, Liveratti M, Taylor L. Knee extension isometric torque production differences based on verbal motivation given to introverted and extroverted female children. *Physiotherapy Theory and Practice*. 2011;27:422-428. DOI.10.3109/09593985.2010.514039
55. **Landers MR**, Durand C, Powell S, Dibble L, Young D. Development of a scale to assess fear-avoidance behavior due to falling: the fear of falling avoidance behavior questionnaire (FFABQ). *Physical Therapy*. 2011;91:1253-1265. DOI.10.2522/ptj.20100304
56. Puentedura EJ, In A, Huijbregts P, Celeste S, Edwards D, In A, **Landers MR**, Fernandez-de-las-Penas F. Immediate effects of quantified hamstring stretching: hold-relax proprioceptive neuromuscular facilitation versus static stretching. *Physical Therapy in Sport*. 2011;12:122-126. DOI.10.1016/j.ptsp.2011.02.006
57. Puentedura EJ, **Landers MR**, Cleland JA, Mintken P, Huijbregts P, Fernandez-de-las Penas C. Thoracic spine thrust manipulation versus cervical spine thrust manipulation in patients with acute neck pain: a randomized clinical trial. *Journal of Orthopaedic & Sports Physical Therapy*. 2011;41:208-220. DOI.10.2519/jospt.2011.3640
58. Young DL, Estocado N, **Landers MR**, Black J. A pilot study providing evidence for the validity of a new tool to improve assignment of NPUAP stage to pressure ulcers. *Advances in Skin & Wound Care*. 2011;24:168-175. DOI.10.1097/01.ASW.0000396304.90710.ea
59. Warren CD, Brown LE, **Landers MR**, Stahura KA. Effect of three different between-inning recovery methods on baseball pitching performance. *Journal of Strength and Conditioning Research*. 2011;25:683-688. DOI.10.1519/JSC.0b013e318208adfe

60. Puentedura EL, **Landers MR**, Hurt K, Meissner M, Mills J, Young DL. Immediate effects of lumbar spine manipulation on the resting and contraction thickness of transversus abdominis in asymptomatic individuals. *Journal of Orthopaedic & Sports Physical Therapy*. 2011;41:13-21.  
DOI.10.2519/jospt.2011.3311
61. Puentedura E, Wallmann HW, **Landers MR**. Rehabilitation following lumbosacral percutaneous nucleoplasty: a case report. *Journal of Orthopaedic & Sports Physical Therapy*. 2010;40:214-224.  
DOI.10.2519/jospt.2010.3115
62. Pike E, **Landers MR**. Responsiveness of the Physical Mobility Scale in a non-community dwelling geriatric population. *Journal of Geriatric Physical Therapy*. 2010;33:92-98.
63. **Landers MR**, McWhorter JW, Young D, Schuerman S, Hickman R. Employer funding and time off for physical therapists toward formal continuing education in states with and without a mandate for continuing education. *Health Policy and Administration Journal*. 2010;10:J1-J8.
64. **Landers MR**, Adams M, Acosta K, Fox A. Challenge-oriented gait and balance training in sporadic olivopontocerebellar atrophy: a case study. *Journal of Neurologic Physical Therapy*. 2009;33:160-168.  
DOI.10.1097/NPT.0b013e3181b511f4
65. Wulf G, **Landers M**, Lewthwaite R, Töllner T. External focus instructions reduce postural instability in individuals with Parkinson's disease. *Physical Therapy*. 2009;89:162-168. DOI.10.2522/ptj.20080045
66. Wulf G, Lewthwaite R, **Landers M**, Töllner T. Author response to invited commentary on: External focus instructions reduce postural instability in individuals with Parkinson's disease. *Physical Therapy*. 2009;89:170-172.
67. **Landers MR**, Backlund A, Davenport J, Fortune J, Schuerman S, Altenburger P. Postural instability in idiopathic Parkinson's disease: discriminating fallers from non-fallers based on standardized clinical measures. *Journal of Neurologic Physical Therapy*. 2008;32:56-61.  
DOI.10.1097/NPT.0b013e3181761330.
68. Wallmann HW, Mercer JA, **Landers MR**. Surface electromyographic assessment of the effect of dynamic activity and dynamic activity with static stretching of the gastrocnemius on vertical jump performance. *Journal of Strength and Conditioning Research*. 2008;22(3):787-793.  
DOI.10.1519/JSC.0b013e3181660e27
69. **Landers MR**, Creger RV, Baker CL, Stutelberg KS. Reply to "Letter to the editors": Re: Landers M, Creger R, Baker C, Stutelberg K. The use of fear-avoidance beliefs and nonorganic signs in predicting prolonged disability in patients with neck pain. *Manual Therapy*. 2008;13:e3-e4.
70. **Landers MR**, Creger RV, Baker CL, Stutelberg KS. The use of fear-avoidance beliefs and nonorganic signs in predicting prolonged disability in patients with neck pain. *Manual Therapy*. 2008;13:239-248.
71. **Landers MR**, Cheung W, Miller D, Summons T, Druse T, Wallmann HW, McWhorter JW. Workers' compensation and litigation status influence the functional outcome of patients with neck pain. *Clinical Journal of Pain*. 2007;23(8):676-682.
72. **Landers MR**, McWhorter JW, Filibeck D, Robinson C. Does sitting posture in chronic obstructive pulmonary disease really matter? An analysis of two sitting postures and their effect on pulmonary function. *Journal of Cardiopulmonary Rehabilitation*. 2006;26:405-409.
73. McWhorter JW, **Landers M**, Wallmann H, Altenburger P, Berry K, Tompkins D, Higbee C. The effects of loaded, unloaded, dynamic, and static activities on foot volumetrics. *Physical Therapy in Sport*. 2006;7:81-86.
74. **Landers MR**, McWhorter JW, LaPorta Krum L, Glovinsky D. Mandatory continuing education in physical therapy: a survey of therapists in states with and without a mandate. *Physical Therapy*. 2005;85:861-871.
75. **Landers MR**, Wulf G, Wallmann HW, Guadagnoli MA. An external focus of attention attenuates balance impairment in patients with Parkinson's disease who have a fall history. *Physiotherapy*. 2005;91(3):152-158.

76. McWhorter JW, **Landers MR**, Wallmann HW. A preliminary study of the effects of verbal motivation on maximal isokinetic torque production in children with varying personality types. *Pediatric Exercise Science*. 2005;17:329-336.
77. **Landers MR**, Maguire L. Effects of a work injury prevention program for housekeeping in the hotel industry. *Work: A Journal of Prevention, Assessment, and Rehabilitation*. 2004;22(3):239-246.
78. **Landers MR**. Treatment-induced neuroplasticity following focal injury to the motor cortex. *International Journal of Rehabilitation Research*. 2004;27(1):1-5.
79. McWhorter JW, Wallmann HW, **Landers M**, LaPorta L, Altenburger B. The effects of walking, running, and shoe size on foot volumetrics. *Physical Therapy in Sport*. 2003;4:87-92.
80. **Landers M**, Altenburger P. Peripheral nerve injury. *Advances in Physiotherapy*. 2003;5(2):67-82.
81. **Landers M**, Barker G, Wallentine S, McWhorter JW, Peel C. A comparison of tidal volume, breathing frequency, and minute ventilation between two sitting postures in healthy adults. *Physiotherapy Theory and Practice*. 2003;19:109-119.

### Book Chapters

1. **Landers MR**, Daubs MD. Rehabilitation Following Orthosis Removal. In: Vaccaro AR, Anderson P, eds. *Cervical Spine Trauma*. Philadelphia: Rothman Institute; 2010.

### Conference Proceedings

1. **Landers MR**, Durand CS, Powell DS, Kuiken AM, Young DL, Hickman R. Balance confidence and fear of falling avoidance behavior are most predictive of falling in older adults: a prospective analysis. In: *Proceedings of the 1<sup>st</sup> Joint World Congress of ISPGR and Gait & Mental Function; June 24-28, 2012;214-215:Trondheim, Norway*. 2012: 215. Available at: [http://ispgr.silkstart.com/download/eJwFwQEKGcAMAMAFbasxLX!zIcJKFDclen13h3tPiHbel7kOB2PQql979DXlraKQhICWLMwrRzk4Es0sG@Sy@6LUE6k=/Norway%202012\\_Abstracts.pdf](http://ispgr.silkstart.com/download/eJwFwQEKGcAMAMAFbasxLX!zIcJKFDclen13h3tPiHbel7kOB2PQql979DXlraKQhICWLMwrRzk4Es0sG@Sy@6LUE6k=/Norway%202012_Abstracts.pdf)
2. **Landers MR**, Baker CL, Stutelberg KS, Creger RV. Effectiveness of cervical nonorganic signs in predicting disability in patients with neck pain. In: *Proceedings of the 8<sup>th</sup> Congress of European Federation for Research in Rehabilitation; June 13-17, 2004; Ljubljana, Slovenia*

### Scientific Presentations – National and Regional

1. Gevertzman M, Longhurst JK, **Landers MR**. The relationship between upper and lower extremity dual-task performance in neurologic disorders. APTA 2023 Combined Sections Meeting, February 23-25, 2023.
2. Longhurst JK, Carlson S, Chiu Y, Ahmad SO, **Landers MR**, Fritz N. Thinner entorhinal, premotor, sensorimotor cortices are associated with poor dual-task performance in Parkinson's disease. APTA 2023 Combined Sections Meeting, February 23-25, 2023.
3. **Landers MR**, Haller A, Aldaco A, La B, Rider J, Longhurst J. The modified Fear of Falling Avoidance Behavior Questionnaire in Parkinson's disease and healthy older adults. APTA 2023 Combined Sections Meeting, February 23-25, 2023.
4. Rider J, Lakhak N, Navalta J, Young D, **Landers MR**. Psychological factors associated with fear of falling and fear of falling avoidance behavior in older adults. American Occupational Therapy Association Inspire Conference. Kansas City, MO, April 20-23, 2023.
5. Kim J, Rider JV, Gevertzman M, Chiu YF, Schwarz L, Soudagar-Turkey M, **Landers MR**, Longhurst JK. Interlimb arm-swing asymmetry during dual-task gait has prognostic value for cognitive decline in Parkinson's disease. American College of Rehabilitation Medicine 99th Annual Conference. Chicago, Illinois, USA. November 8-11, 2022.
6. Rider J, Longhurst J, Navalta J, Young D, **Landers MR**. Fear of falling avoidance behavior in Parkinson's disease. ACRM 99th Annual Conference, Progress in Rehabilitation Research, Chicago, Illinois, November 8-11, 2022.



7. Rider J, Longhurst J, Navalta J, Young D, **Landers MR**. Fear of falling avoidance behavior in Parkinson's disease: An analysis of the most frequently avoided activities. Touro University Research Day, Henderson, NV, March 11, 2022.
  - a. Best Poster: Applied and Translational Research
8. Rider J, Longhurst J, Navalta J, Young D, **Landers MR**. The most avoided activities due to fear of falling avoidance behavior in Parkinson's disease. American Occupational Therapy Annual Conference, Inspire, San Antonio, TX, March 31 - April 3, 2022.
9. Pantovic M, Pudar N, Albuquerque LL, Morris D, Broeder S, Wilkins EW, **Landers MR**, Mari Z & Poston B. The influence of long-term transcranial direct current stimulation on motor learning in Parkinson's disease. Society for Neuroscience Abstracts. Chicago, Illinois, November 13-16, 2021.
10. Pantovic M, Pudar N, Albuquerque LL, Morris D, Broeder S, Wilkins EW, **Landers MR**, Mari Z & Poston B. The effects of long-term application of transcranial direct current stimulation on transfer of motor learning in Parkinson's disease. 4th International Brain Stimulation Conference. Charleston, South Carolina, December 6-9, 2021.
11. Rider J, Longhurst J, Lekhak N, **Landers MR**. Fear of falling activity avoidance behavior among individuals with Parkinson's disease: a scoping review. 98<sup>th</sup> Annual Conference of the American Congress of Rehabilitation Medicine, Virtual, September 26-29, 2021.
12. **Landers MR**, Jacobson K, Matsunami N, McCarl H, Regis M, Longhurst J. A vicious cycle of fear of falling avoidance behavior in Parkinson's disease: a path analysis. APTA 2021 Combined Sections Meeting Virtual, February 24-27, 2021.
13. Longhurst J, Wise M, Krist D, Moreland C, Basterrechea J, **Landers MR**. Associations of Brain Volumetry and Dual Task Interference Among Older Adults with Cognitive Impairment. APTA Combined Sections Meeting, Denver, CO, February 12-15, 2020.
14. Longhurst J, Bayram E, Mahoney T, Ross C, Bluett B, **Landers MR**. The relationship between freezing of gait, levodopa, dual task cost, and task complexity in Parkinson's disease. Friends of Parkinson's 3<sup>rd</sup> Annual Interprofessional Health Symposium on Parkinson's Disease, Henderson, Nevada, August 17, 2019.
15. **Landers MR**, Ellis T. A mobile application specifically designed to facilitate exercise in Parkinson disease: safety, feasibility, and signal of efficacy. Friends of Parkinson's 3<sup>rd</sup> Annual Interprofessional Health Symposium on Parkinson's Disease, Henderson, Nevada, August 17, 2019.
16. Hidecker MJC, Bush E, **Landers MR**, Singh R, Piccorelli A. Lessons learned from a coordinated allied health telepractice study with rural persons with Parkinson disease. American Speech-Language-Hearing Association Annual Convention, Orlando, Florida, November 21-23, 2019.
17. Longhurst J, Bayram E, Mahoney T, Ross C, Bluett B, **Landers MR**. The relationship between freezing of gait, levodopa, dual task cost, and task complexity in Parkinson's disease. APTA Combined Sections Meeting, Washington, DC, January 23-26, 2019.
18. Dinglasan V, **Landers MR**. Reliability and concurrent validity of a portable infrared camera to assess gait. APTA Combined Sections Meeting, Washington, DC, January 23-26, 2019.
19. Longhurst J, **Landers MR**. A new way of measuring dual task cost: the construct validity of the comprehensive dual task cost equation in individuals with Parkinson's disease. APTA Combined Sections Meeting, Washington, DC, January 23-26, 2019.
20. Albuquerque LL, Munoz I, Fisher KM, **Landers MR**, Poston B. The influence of transcranial direct current stimulation of the motor cortex on balance in Parkinson's disease. Society for Neuroscience 48<sup>th</sup> Annual Neuroscience 2018 Conference, San Diego, California, November 3-7, 2018.
21. Albuquerque LL, Munoz I, Mangahas A, **Landers MR**, Poston B. The influence of long-term transcranial direct current stimulation on gait function in Parkinson's disease. American College of Sports Medicine Annual Meeting 65<sup>th</sup> Annual Meeting, Minneapolis, Minnesota, May 29-June 1, 2018.



22. Hidecker MJC, **Landers MR**. Decreasing health disparities for persons with Parkinson's disease in rural communities: assessing feasibility of coordinated telehealth. Mountain West CTR-IN Program – 5<sup>th</sup> Annual Meeting, Las Vegas, Nevada, June 11-12, 2018.
23. Johnson K, Salgo D, Zorn J, **Landers MR**. The reliability of a self-report questionnaire about lifetime physical activity levels in people with Parkinson's disease. APTA Combined Sections Meeting, New Orleans, Louisiana, February 21-24, 2018.
24. Albuquerque LL, Fischer KM, Jalene S, **Landers MR**, Riley Z, Poston B. The influence of cerebellar transcranial direct current stimulation on motor skill acquisition in a complex visuomotor task in Parkinson's disease. Society for Neuroscience 47<sup>th</sup> Annual Neuroscience 2017 Conference, Washington, D.C., November 11-15, 2017.
25. Dunn J, Feng D, Girouard T, Silvernail J, **Landers MR**, Miller KN. Post-concussion symptom reporting: is gender a factor in the adolescent population? National Athletic Trainers' Association Annual Meeting, Houston, Texas, June 26-29, 2017.
26. **Landers MR**, Contreras D, Heim J, Nelson KJ, Nash JM, Longhurst JK. Gait and balance in Alzheimer's disease: a retrospective data analysis of function across varying levels of cognitive impairment. APTA Combined Sections Meeting, San Antonio, Texas, February 15-18, 2017.
27. Baer M, Klemetson B, Scott D, Navalta J, Murtishaw A, Kinney J, **Landers MR**. The effects of fatigue on balance in individuals with Parkinson's disease: influence of medication and brain-derived neurotrophic factor genotype. APTA Combined Sections Meeting, San Antonio, Texas, February 15-18, 2017.
28. **Landers MR**, Poston B, Nash J, Longhurst J. Freezing of gait is associated with more fear of falling avoidance behavior and less participation in daily physical activity. 9<sup>th</sup> Annual Interdisciplinary Research Scholarship Day. UNLV, Las Vegas, Nevada, April 1, 2016.
29. **Landers MR**, Poston B. A comparison of the characteristics of those with Parkinson's disease who present with the postural instability/gait difficulty and the tremor dominant subtypes. 9<sup>th</sup> Annual Interdisciplinary Research Scholarship Day. UNLV, Las Vegas, Nevada, April 1, 2016.
30. **Landers MR**, Sasaoka J, Oscar S, Vaughn K. A prospective analysis of physical and psychological measures in predicting future falls in older adults. APTA Combined Sections Meeting, Anaheim, CA, February 17-20, 2016.
31. **Landers MR**, Blood J, Ostrander J, Parrish G. Do the physical therapist's words really matter?: The effects of enhanced and decreased expectations on balance performance in those with and without Parkinson's disease. APTA Combined Sections Meeting, Anaheim, CA, February 17-20, 2016.
32. **Landers MR**, Navalta J. High-intensity exercise and fall prevention boot camp for Parkinson's disease. Mountain West IDEa Clinical and Translational Research – Infrastructure Network (CTR-IN) Annual Meeting, Las Vegas, Nevada, June 8-10, 2015.
33. Sasaoka J, Oscar S, Vaughn K, **Landers MR**. Balance confidence and fear of falling avoidance behavior are most predictive of falling in older adults: a prospective analysis. Mountain West IDEa Clinical and Translational Research – Infrastructure Network (CTR-IN) Annual Meeting, Las Vegas, Nevada, June 8-10, 2015.
34. **Landers MR**, Donatelli R, Nash J, Basharon R. Dynamic visual acuity in mixed martial arts fighters. 2015 NEXT Conference and Exposition, National Harbor, Maryland, June 3-6, 2015.
35. **Landers MR**, Lopker M, Newman M, Gourlie R, Sorensen S, Vong R. Characteristics of subjects who exhibit avoidance behavior due to a fear of falling in Parkinson's disease. 2015 APTA Combined Sections Meeting, Indianapolis, Indiana, February 4-7, 2015.
36. Hickman R, **Landers MR**, Beckett J, Harmon A. Development of a balance self-perception assessment tool for children: Pilot Study of the Pediatric Balance Perception Battery. 2015 APTA Combined Sections Meeting, Indianapolis, Indiana, February 4-7, 2015.
37. **Landers MR**, Addis K, Longhurst J, vom Steeg B, Puentedura E, Daubs M. Anterior cervical decompression and fusion improves neck range of motion: a prospective analysis. 7<sup>th</sup> Annual Interdisciplinary Research & Scholarship Day, UNLV, Las Vegas, Nevada, April 21, 2014.

38. Navalta JW, Jarrett MS, Ciulei MA, Young JC, Tandy RD, **Landers MR**. Relationship of the Epigenetic Marker Global DNA Methylation with Body Composition and Cardiorespiratory Measures. 2014 Annual Meeting, World Congress on Exercise is Medicine, and World Congress on the Role of Inflammation in Exercise, Health and Disease of the American College of Sports Medicine, Orlando, Florida, May 27-31, 2014.
39. **Landers MR**, Addis K, Longhurst J, vom Steeg B, Puentedura E, Daubs M. Anterior cervical decompression and fusion improves neck range of motion: a prospective analysis. 2014 APTA Combined Sections Meeting, Las Vegas, Nevada, February 3-6, 2014.
40. Warren CD, Szymanski DJ, **Landers MR**. Effects of three recovery protocols on baseball pitchers during simulated games. NSCA 36<sup>th</sup> Annual National Conference, Las Vegas, Nevada, July 10-13, 2013.
41. Cheema R, Wilson K, **Landers MR**. Test-retest reliability and responsiveness of gaze stability and dynamic visual acuity in high school and college football players. 2013 Far West Athletic Trainers' Association Annual Meeting and Clinical Symposium, Sacramento, California, April 4-7, 2013.
42. Kaufman D, Puckett M, Smith M, **Landers MR**. Test-retest reliability and responsiveness of gaze stability and dynamic visual acuity in high school and college football players. 2013 APTA Combined Sections Meeting, San Diego, California, January 21-24, 2013.
43. Gramly A, Rhodes K, Smith A, **Landers MR**. Active recovery and electro-muscular stimulation on delayed onset muscle soreness after endurance running: a randomized clinical trial. PT 2012: APTA's Annual Conference and Exposition. Tampa, FL, June 6-9, 2012.
44. **Landers MR**, Blazer R, Richards A, Davis A, Rosenlof L. Attentional focus during balance training in idiopathic Parkinson's disease: a randomized clinical trial. 2012 APTA Combined Sections Meeting, Chicago, IL, February 8-11, 2012.
45. Puentedura E, **Landers MR**, Cleland J, Mintken P, Huijbregts P, Fernandez-de-las-Penas C. Thoracic spine thrust manipulation versus cervical spine thrust manipulation in patients with acute neck pain: a randomized clinical trial. 2012 APTA Combined Sections Meeting, Chicago, IL, February 8-11, 2012.
46. Puentedura E, **Landers MR**, McCauley A, Rasmussen Z, Louw A. A population-based survey of lumbar surgery beliefs. 2012 APTA Combined Sections Meeting, Chicago, IL, February 8-11, 2012.
47. **Landers MR**, Durand C, Powell S, Dibble L, Young D. Development of a scale to assess fear-avoidance behavior due to falling: the fear of falling avoidance beliefs questionnaire (FFABQ). 2011 APTA Combined Sections Meeting, New Orleans, LA, February 9-12, 2011.
48. Young D, Estocado N, **Landers MR**, Black J. A pilot study providing evidence for the validity of a new tool to improve assignment of NPUAP stage to pressure ulcers. 2011 APTA Combined Sections Meeting, New Orleans, LA, February 9-12, 2011.
  - a. 2011 Wound Management SIG Research Award (Section of Electrophysiology and Wound Management, APTA)
49. McWhorter JW, **Landers MR**, Burford C, Fairbanks S, Ingram A. Employment trends of resident and non-resident physical therapy graduates in underserved states. 2011 APTA Combined Sections Meeting, New Orleans, LA, February 9-12, 2011.
50. **Landers MR**, Pike E. The Physical Mobility Scale: Reliability and Responsiveness in Long Term Care Facility Residents. Physical Therapy 2010: Annual Conference & Exposition of the American Physical Therapy Association, Boston, Massachusetts, June 16-19, 2010.
51. Puentedura EJ, Hurt KA, Meissner MC, Mills JD, Young DL, **Landers MR**. A real-time ultrasound examination of the immediate effects of lumbar spine manipulation on the contraction of transversus abdominis in asymptomatic subjects. Physical Therapy 2010: Annual Conference & Exposition of the American Physical Therapy Association, Boston, Massachusetts, June 16-19, 2010.
52. McWhorter JW, **Landers MR**, Young D, Brooksby C, Liveratti M, Purtell A, Taylor L. The effects of verbal motivation on maximal isometric torque production in 8 to 11 year old females with differing personality types. 2010 APTA Combined Sections Meeting, San Diego, California, February 17-20, 2010.

53. **Landers MR**, Davenport JM, Puentedura EJ, Wallmann HW. Physical therapists' subjective assessment of overreaction in patients with neck pain is predictive of prolonged disability. *Physical Therapy 2009: Annual Conference & Exposition of the American Physical Therapy Association*, Baltimore, Maryland, June 10-13, 2009.
54. Puentedura EJ, Brooksby C, Wallmann HW, **Landers M**. Physical therapy rehabilitation following lumbosacral percutaneous nucleoplasty: a case study. *Physical Therapy 2009: Annual Conference & Exposition of the American Physical Therapy Association*, Baltimore, Maryland, June 10-13, 2009.
55. Hickman R, McCoy S, Rauh M, Long T, **Landers M**. Experience as the link between contemporary ecologic theories and movement science in early intervention. 2009 APTA Combined Sections Meeting, Las Vegas, NV, February 9-12, 2009.
56. **Landers MR**, Hickman RA, Young DL, Schuerman SE, McWhorter JM. Time off and employer funding for physical therapists toward formal continuing education in states with and without a mandate for continuing education. *Physical Therapy 2008: Annual Conference & Exposition of the American Physical Therapy Association*, San Antonio, Texas, June 11-14, 2008.
57. Menzel NN, Bray-Ward P, **Landers M**. Inflammatory cytokine links to depression and pain intensity in low back pain disability. *Diverse Roles of Cytokines in Biological and Psychological Phenomena*, Western Institute of Nursing's 2008 Annual Communicating Nursing Research Conference, "The Circle of Nursing Knowledge: Education, Practice and Research," Garden Grove, California, April 17-19, 2008.
58. McWhorter JW, **Landers MR**, Michelman M, Robbins C, Wakefield T. An afterschool health and nutrition program's effect on electronic media and childhood obesity. *American Physical Therapy Association Combined Sections Meeting*, Boston, Massachusetts, February 14-18, 2007.
59. **Landers MR**, Acosta K, Fox A, Groves M. Challenge-oriented balance training in Olivopontocerebellar atrophy: a single case study. *American Physical Therapy Association Combined Sections Meeting*, Boston, Massachusetts, February 14-18, 2007.
60. Krum L, Schuerman S, Colton M, Fogg M, George S, Kocher K, Alpert P, **Landers M**. Female college athletes: relationships of quadriceps angle, bone mineral density, muscular strength, body composition, and calcium intake across sports. *American Physical Therapy Association Combined Sections Meeting*, Boston, Massachusetts, February 14-18, 2007.
61. McWhorter JW, Altenburger E, Wallmann HW, **Landers MR**. The effects of verbal motivation on maximal isokinetic torque production in children. *American Physical Therapy Association Combined Sections Meeting*, San Diego, California, Feb 2006.
62. **Landers MR**, McWhorter JW, Filibeck D, Robinson C. Does sitting posture in chronic obstructive pulmonary disease really matter?: an analysis of two sitting postures and their effect on pulmonary and cardiovascular function. 2005 Annual Meeting of the American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR). Milwaukee, Wisconsin, October 21, 2005.
63. Nocera JR, Rubley MD, Holcombe WR, Guadagnoli MA, **Landers MR**. Effects of a single bout of throwing on rotator cuff strength and proprioception. *NATA Annual Meeting*, Indianapolis, Indiana, June 2005.
64. McWhorter JW, Berry K, Higbee C, Tompkins D, Altenburger P, Wallmann H, **Landers MR**. The effects of loaded, unloaded, dynamic, and static activities on foot volumetrics. *American Physical Therapy Association Combined Sections Meeting*, New Orleans, LA, Feb 2005
65. **Landers MR**, McWhorter JW, Krum LL, Glovinsky D. A comparison of physical therapist continuing education practices in states with and without mandatory state continuing education requirements. *American Physical Therapy Association Combined Sections Meeting*, Nashville, Tennessee, February 4-8, 2004.
66. **Landers MR**, Creger RV, Stutelberg KS, Baker CL. Relationship of fear-avoidance beliefs to functional limitation and secondary gain in a cohort of patients with neck pain. *American Physical Therapy Association Annual Conference and Exposition*, Chicago, Illinois, June 30 – July 2, 2004.

67. **Landers MR**, Wallmann HW. Differences between idiopathic Parkinson's disease fallers and non-fallers on computerized dynamic posturography measurements and subscale scores of the Parkinson's Disease Questionnaire (PDQ-39). American Physical Therapy Association Annual Conference and Exposition, Chicago, Illinois, June 30 – July 2, 2004.
68. **Landers M**, Wulf G, Wallmann H, Guadagnoli M. The effects of attentional focus on balance in idiopathic Parkinson's disease. Platform presentation. American Physical Therapy Association Combined Sections Meeting, Washington, DC, June 17-22, 2003
69. McWhorter JW, Wallmann H, **Landers M**, Krum LL, Altenburger P, Altenburger B. The effects of walking, running, and shoe size on foot volumetrics. Posture presentation. American Physical Therapy Association Combined Sections Meeting, Washington, DC, June 17-22, 2003.
70. **Landers M**, Wulf G, Wallmann H, Guadagnoli M. An external focus of attention can attenuate balance impairment in Parkinson's disease. Posture presentation. Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Savannah, GA, June 5-7, 2003.

### Scientific Presentations – International

1. Nunes ACL, Jesus-Moraleida FR, Lima P, **Landers MR**. Translation and measurement properties of the Brazilian-Portuguese version of the Fear of Falling Avoidance Behavior Questionnaire (FFABQ). 22<sup>nd</sup> World Congress of Gerontology and Geriatrics - IAGG 2022, Virtual, June 12-16, 2022.
2. **Landers MR** and Nilsson MH. Addressing fear of falling avoidance behavior in Parkinson's disease: a theoretical framework to inform clinical practice. XXVII World Congress on Parkinson's Disease and Related Disorders. Prague, Czech Republic, May 1-4, 2022.
  - a. Guided Poster Tour selection
3. **Landers MR**, Rider JV, Eckard K, Hammar R, Vukojevic F, Campbell J, Longhurst JK. Disease severity and gait velocity are predictive of fear of falling avoidance behavior in people with parkinsonisms. XXVII World Congress on Parkinson's Disease and Related Disorders. Prague, Czech Republic, May 1-4, 2022.
4. Longhurst JK, Rider JV, Cummings JL, John SE, Poston B, Held-Bradford E, **Landers MR**. A novel way of measuring dual-task interference: the reliability and construct validity of the dual-task effect battery in neurodegenerative disease. International Society of Posture and Gait Research World Congress 2022. Montreal, Canada, July 4-7, 2022.
5. Longhurst JK, Rider JV, Cummings JL, John SE, Poston B, **Landers MR**. Cognitive-motor dual task interference in Alzheimer's disease, Parkinson's disease, and prodromal neurodegeneration: a scoping review. International Society of Posture and Gait Research World Congress 2022. Montreal, Canada, July 4-7, 2022.
6. Cavalcanti HM, Longhurst JK, Almeida LRS, Oliveira-Filho J, Mishra VR, **Landers MR**. On medication gait variability is most associated with off medication freezing of gait severity in people with Parkinson's disease. 4th Pan American Parkinson's Disease and Movement Disorders Congress, Miami, Florida, USA, May 26-28, 2022.
7. Cavalcanti HM, Longhurst JK, Almeida LRS, Oliveira-Filho J, Mishra VR, **Landers MR**. Cortical thickness of Brodmann areas 44 and 45 (Broca's area) is associated with freezing of gait severity in Parkinson's disease. 4th Pan American Parkinson's Disease and Movement Disorders Congress, Miami, Florida, USA, May 26-28, 2022.
8. Longhurst JK, Cummings JL, John SE, Poston B, Rider JV, Salazar AM, Mishra VR, Ritter A, Caldwell JZ, Miller JB, Kinney JW, **Landers MR**. Dual task performance is associated with amyloidosis in cognitively healthy adults. AD/PD22: 16th International Conference of Alzheimer's and Parkinson's Diseases, Barcelona, Spain, March 15-20, 2022.
9. Longhurst JK, Sreenivasan KR, Cummings JL, John SE, Poston B, Cordes D, Rider JV, **Landers MR**. "Cortical thickness is related to cognitive-motor automaticity in individuals with Alzheimer's disease: a regions of interest study. AD/PD22: 16th International Conference of Alzheimer's and Parkinson's Diseases, Barcelona, Spain, March 15-20, 2022.

10. Rider J, Longhurst JK, **Landers MR**. Cognitive and functional predictors of ADL performance in persons with Parkinson's Disease. 24th International Congress of Parkinson's Disease and Movement Disorders. MDS Virtual Congress 2020, September 12-16, 2020.
11. Longhurst J, Rider J, Bluett B, **Landers MR**. The effect of levodopa and cognitive-motor dual interference on gait parameters for individuals with Parkinson's disease freezing of gait. 24th International Congress of Parkinson's Disease and Movement Disorders. MDS Virtual Congress 2020, September 12-16, 2020.
12. Longhurst JK, Caldwell J, Ritter A, Mishra V, Bluett B, **Landers MR**. The cognitive profiles differ among freezing of gait subtypes in Parkinson's disease. International Congress of Parkinson's Disease and Movement Disorders, Nice, France, September 22-26, 2019.
13. **Landers MR**, Johnson KN, Johnson S, Lyle J, Ormsby T, Salgo DC, Zorn JB, Murtishaw AS, Salazar AM, Kinney JW. Pre-diagnosis physical activity habits are associated with age of diagnosis and postural instability in Parkinson's disease. International Congress of Parkinson's Disease and Movement Disorders, Nice, France, September 22-26, 2019.
14. Rider J, Longhurst J, Ritter A, **Landers MR**. Physical therapy is associated with improvements in gait and balance in individuals with Lewy Body Dementia: a retrospective analysis. International Lewy Body Dementia Conference, Las Vegas, Nevada, USA, June 24-26, 2019.
15. **Landers MR**, Ellis T. A mobile application specifically designed to facilitate exercise in Parkinson disease: safety, feasibility, and signal of efficacy. 5<sup>th</sup> World Parkinson Congress, Kyoto, Japan, June 4-7, 2019.
16. Longhurst J, Phan J, Chen E, Jackson S, **Landers MR**. Physiotherapy improves gait and balance in patients with cognitive impairment: a retrospective analysis. World Confederation for Physical Therapy Congress, Geneva, Switzerland, May 10-13, 2019.
17. **Landers MR**, Navalta J. A phase II, pragmatic, randomized clinical trial on a high-intensity exercise and fall prevention boot camp for Parkinson's disease: signal of efficacy. 4th World Parkinson Congress, Portland, Oregon, USA, September 20-23, 2016.
18. **Landers MR**, Navalta J. A phase II, pragmatic, randomized clinical trial on a high-intensity exercise and fall prevention boot camp for Parkinson's disease: feasibility and safety. 4th World Parkinson Congress, Portland, Oregon, USA, September 20-23, 2016.
19. **Landers MR**, Poston B, Nash J, Longhurst J. Freezing of gait is associated with more fear of falling avoidance behavior and less participation in daily physical activity. 4th World Parkinson Congress, Portland, Oregon, USA, September 20-23, 2016.
20. De Albuquerque LL, Fischer K, Jalene S, **Landers MR**, Poston B. The influence of cerebellar transcranial direct current stimulation on skill acquisition in Parkinson's disease. 4th World Parkinson Congress, Portland, Oregon, USA, September 20-23, 2016.
21. **Landers MR**, Poston B. A comparison of the characteristics of those with Parkinson's disease who present with the postural instability/gait difficulty and the tremor dominant subtypes. 4<sup>th</sup> World Parkinson Congress, Portland, Oregon, USA, September 20-23, 2016.
22. **Landers MR**, Lopker M, Newman M, Gourlie R, Sorensen S, Vong R. Individuals with Parkinson's disease who report fear of falling avoidance behavior exhibit more depression, anxiety, and catastrophization than non-avoiders. 18<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Stockholm, Sweden, June 8-12, 2014.
23. **Landers MR**, Lopker M, Newman M. Reliability and validity of the modified Fear of Falling Avoidance Behavior Questionnaire in Parkinson's disease. 18<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Stockholm, Sweden, June 8-12, 2014.
24. **Landers MR**, Durand CS, Powell DS, Kuiken AM, Young DL, Hickman R. Balance confidence and fear of falling avoidance behavior are most predictive of falling in older adults: a prospective analysis. Joint World Congress of ISPGR and Gait & Mental Function, Trondheim, Norway, June 24-28, 2012.

25. **Landers MR**, Kinney JW, Elekonich MM, Allen DN, van Breukelen F. A comparison of voluntary and forced exercise in driving neuroprotection in a hemiparkinsonian rat model. The Movement Disorder Society's (MDS) 16th International Congress of Parkinson's Disease and Movement Disorders, Dublin, Ireland, June 17–21, 2012.
26. Wulf G, **Landers MR**, Töllner T. Postural instability in Parkinson's disease decreases with an external focus of attention. The 2<sup>nd</sup> International Congress on Gait & Mental Function: the interplay between walking, behavior, and cognition. Amsterdam, The Netherlands, February 1-3, 2008.
27. **Landers MR**, Wulf G. Cognition in idiopathic Parkinson's disease: correlates with gait and balance. The 2<sup>nd</sup> International Congress on Gait & Mental Function: the interplay between walking, behavior, and cognition. Amsterdam, The Netherlands, February 1-3, 2008.
28. **Landers MR**, Wulf G. Postural instability in idiopathic Parkinson's disease: predicting fallers from non-fallers based on standardized clinical measures. The Movement Disorder Society's 10<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Kyoto, Japan, Oct 28 – Nov 2, 2006.
29. **Landers MR**, Cheung W, Miller D, Summons T. A prospective investigation of the effects of secondary gain in neck pain. 2<sup>nd</sup> International Conference on Movement Dysfunction. Pain and Performance: Evidence & Effect. Edinburgh, Scotland, United Kingdom, September 23-25, 2005.
30. **Landers MR**, Creger R, Baker C, Stutelberg K. An investigation of the predictive ability of fear-avoidance beliefs and nonorganic signs in patients with neck pain. The 2<sup>nd</sup> International Conference on Movement Dysfunction. Pain and Performance: Evidence & Effect. Edinburgh, Scotland, United Kingdom, September 23-25, 2005.
31. **Landers MR**, Baker CL, Stutelberg KS, Creger RV. Effectiveness of cervical nonorganic signs in predicting disability in patients with neck pain. 8<sup>th</sup> Congress of European Federation for Research in Rehabilitation, Ljubljana, Slovenia, June 13-17, 2004.

#### Invited Presentations

1. **Landers MR**. Postural Control in Parkinson's Disease. Associação Brasileira de Fisioterapia Neurofuncional – ABRAFIN, Brasília, Brazil, November 11, 2022.
2. **Landers MR**. Fear of falling avoidance behavior in Parkinson's disease. Monthly Seminar Series. Touro University, August 25, 2022.
3. **Landers MR**. Keynote Lecture: Fear of falling avoidance behavior in Parkinson's disease. Association of Chartered Physiotherapists in Neurology (ACPIN) - Multidisciplinary International Conference 2022, London, United Kingdom, July 11-12, 2022.
4. **Landers MR**. Panelist with John Childs, PT, PhD, MBA, FAPTA, Gail M. Jensen, PT, PhD, FAPTA, FNAP, and John Buford, PT, PhD, on "Myth Busting in Physical Therapy Education and Professional Development," 2022 APTA Wisconsin Spring Conference, Oshkosh, Wisconsin, April 7-8, 2022.
5. **Landers MR**. A vicious cycle of fear of falling in Parkinson's disease. Science Café, School of Life Sciences, University of Nevada, Las Vegas, December 1, 2021.
6. **Landers MR**. Clinical case presentation: Systemic approach to neurofunctional conditions: Parkinson's disease. Brazilian Congress of Neurofunctional Physiotherapy (COBRAFIN), Brazilian Association of Neurofunctional Physiotherapy – ABRAFIN, September 3-6, 2021.
7. **Landers MR**. Emerging Practice Trends: Transcranial Direct Current Stimulation. 2019 Tri-State PT Conference, Las Vegas, Nevada, October 12-13, 2019.
8. **Landers MR**. Telehealth in the Tri-State – Preseason to Postseason PT Perspectives. 2019 Tri-State PT Conference, Las Vegas, Nevada, October 12-13, 2019.
9. **Landers MR**. Exercise as a neuroprotective strategy in Parkinson's disease. Neurology Grand Rounds, University of New Mexico, Albuquerque, New Mexico, February 15, 2019.
10. **Landers MR**, DeAngelis T. "Staying healthy – keeping fit: a new online PD webinar training program for health and wellness professionals" – American Parkinson Disease Association "From Vision to Execution" Leadership Conference, Fort Lauderdale, Florida, July, 27-28, 2018.

11. **Landers MR.** Hand Blessing Keynote. University of the Incarnate Word, School of Physical Therapy Professionalism and Hand Blessing Ceremony, San Antonio, Texas, June 30, 2017.
12. **Landers MR.** Ignite Presentation: Vision-Driven Innovation. 2nd Annual Forum on Innovation in PT Education in honor of Dr. Geneva R. Johnson, American Council on Academic Physical Therapy, Education Leadership Conference, Baltimore, Maryland, October 2-4, 2015.
13. **Landers MR.** Neck pain-related disability: current evidence on clinical correlates and conservative treatment options. 28<sup>th</sup> Annual National Workers' Compensation and Occupational Medicine Conference. Hyannis, Massachusetts, July 14-17, 2008.
14. **Landers MR.** Update on peripheral nerve injury. 41<sup>st</sup> Annual Conference of the Indian Association of Physiotherapists, Mumbai (Bombay), India, January 1, February 2, 2003.

## Other

1. DeAngelis T, **Landers MR**, Ellis T. Parkinson's for Fitness, Health and Wellness Professionals. Online training program. American Parkinson Disease Association. 2018. Available at: <https://www.apdaparkinson.org/pd-fitness-training/>

## Abstracts

1. **Landers MR**, Rider JV, Eckard K, Hammar R, Vukojevic F, Campbell J, Longhurst JK. Disease severity and gait velocity are predictive of fear of falling avoidance behavior in people with parkinsonisms. XXVII World Congress on Parkinson's Disease and Related Disorders Abstract E-BOOK: 2022:P224. Available at: <https://www.iaprd-world-congress.com/inhalt/uploads/2022/04/IAPRD2022-Abstract-E-Book.pdf>
2. Cavalcanti HM, Longhurst JK, Almeida LRS, Oliveira-Filho J, Mishra VR, **Landers MR.** On medication gait variability is most associated with off medication freezing of gait severity in people with Parkinson's disease. *Movement Disorders Clinical Practice.* 2022; 9(S1): S46. doi: 10.1002/mdc3.13411
3. Cavalcanti HM, Longhurst JK, Almeida LRS, Oliveira-Filho J, Mishra VR, **Landers MR.** Cortical thickness of Brodmann areas 44 and 45 (Broca's area) is associated with freezing of gait severity in Parkinson's disease. *Movement Disorders Clinical Practice.* 2022; 9(S1): S28. doi: 10.1002/mdc3.13411
4. **Landers MR**, Jacobson K, Matsunami N, McCarl H, Regis M, Longhurst J. A vicious cycle of fear of falling avoidance behavior in Parkinson's disease: a path analysis. *Journal of Neurologic Physical Therapy* 2021: poster: 28814. Available at: <https://journals.lww.com/jnpt/Documents/ANPT%20Poster%20Abstracts%20CSM%202021.pdf>
5. Longhurst JK, Wise MA, Krist DJ, Moreland CA, Basterrechea JA, **Landers MR.** Associations of Brain Volumetry and Dual Task Interference Among Older Adults with Cognitive Impairment. *Journal of Neurologic Physical Therapy.* 2020: poster: 25517. Available at: [https://journals.lww.com/jnpt/Documents/ANPT%20Poster%20Abstracts\\_CSM%202020.pdf](https://journals.lww.com/jnpt/Documents/ANPT%20Poster%20Abstracts_CSM%202020.pdf)
6. Longhurst J, Rider J, Bluett B, **Landers MR.** The effect of levodopa and cognitive-motor dual interference on gait parameters for individuals with Parkinson's disease freezing of gait. *Movement Disorders.* 2020; 35(S1): Poster 1208. Available at: <https://doi.org/10.1002/mds.28268>
7. Rider J, Longhurst J, **Landers MR.** Cognitive and functional predictors of ADL performance in persons with Parkinson's disease. *Movement Disorders.* 2020; 35(S1): Poster 15. Available at: <https://doi.org/10.1002/mds.28268>
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## Professional presentations

1. Duncan R, **Landers MR**. Mind over Movement: Fear-Avoidance Behaviors Impacting Movement and Participation in People with Neurologic Conditions, APTA 2023 Combined Sections Meeting, San Diego, California, February 22-25, 2023.
2. **JNPT Editorial Board**. Finding your research path. APTA 2023 Combined Sections Meeting, San Diego, California, February 22-25, 2023.
3. **Landers MR**. Balance and walking in Parkinson's disease. Summerlin Parkinson's Disease Support Group. Summerlin Library, Las Vegas, Nevada, April 12, 2022.
4. JNPT Editorial Board. Be Your Own Best Editor: Improve Reviewing and Authoring Skills to Advance Physical Therapy Practice. APTA Combined Sections Meeting, San Antonio, Texas, February 2-5, 2022.
5. **Landers MR**. Update on exercise in Parkinson's disease: part II. Friends of Parkinson's webcast, Las Vegas, Nevada, June 23, 2020.
6. **Landers MR**. Update on exercise in Parkinson's disease: what research is telling us. Friends of Parkinson's webcast, Las Vegas, Nevada, May 21, 2020.
7. **Landers MR**. Moderator, Friends of Parkinson's Medical Symposium on Parkinson's Disease, Las Vegas, Nevada, February 22, 2020.
8. **Landers MR**. Moderator, Friends of Parkinson's 3<sup>rd</sup> Annual Interprofessional Health Symposium on Parkinson's Disease, Henderson, Nevada, August 17, 2019.
9. Lee ACW, **Landers MR**, Nithman R, Chokshi A. Telehealth in the Tri-State – preseason to postseason PT perspectives. Tri-State PT Conference, Las Vegas, Nevada, October 12-13, 2019.
10. **Landers MR**. Update on exercise in Parkinson's disease. Spotlight on Treatment, Parkinson's and Movement Disorders (PMD) Alliance, Las Vegas, Nevada, April 17, 2019.
11. **Landers MR**. Panelist. Annual evaluations for department chairs. UNLV Leadership Forum, November 12, 2019.
12. **Landers MR**. Moderator, Friends of Parkinson's 2<sup>nd</sup> Annual Interprofessional Health Symposium on Parkinson's Disease, Las Vegas, Nevada, August 18, 2018.
13. **Landers MR**. Aerobic exercise and brain derived neurotrophic factor. Friends of Parkinson's Interprofessional Health Symposium on the Latest Treatment Options for Parkinson's Disease, Las Vegas, Nevada, August 19, 2017.
14. **Landers MR**. Moderator, Friends of Parkinson's Interprofessional Health Symposium on the Latest Treatment Options for Parkinson's Disease, Las Vegas, Nevada, August 19, 2017.
15. **Landers MR**. Expert Panel on Promotion and Tenure Opening Statements, Faculty Affairs, Office of the Executive Vice President and Provost, University of Nevada, Las Vegas, May 5, 2017.
16. **Landers MR**. Gait and balance dysfunction in AD. Nevada Consortium on Dementia Research, Las Vegas, Nevada, May 31, 2017.
17. **Landers MR**. Principles and practice of Learning and Assessment. Moderator and Speaker, Future of Healthcare Symposium, Chapman University, Orange, California, May 24, 2017.
18. **Landers MR**. Systems Design and New Innovative Curriculum Proposal at UNLV. Curriculum Renewal Retreat, Chapman University, Irvine, California, March 25, 2017.
19. **Landers MR**. DPT Faculty Breakouts for New Curriculum Design Framework. Facilitator, Curriculum Renewal Retreat, Chapman University, Irvine, California, March 26, 2017.
20. **Landers MR**. Update on exercise in Parkinson's disease. Medical Symposium, Friends of Parkinson's, August 19, 2016.
21. **Landers MR**. Exercise and physical therapy in Parkinson's disease. Medical Symposium, Friends of Parkinson's, August 20, 2016.
22. **Landers MR**. Expert Panel on Parkinson's disease. Medical Symposium, Friends of Parkinson's, August 20, 2016.
23. **Landers MR**. Panelist, ABPTRFE Career Development Reception. APTA Combined Sections Meeting, Anaheim, California – February 18, 2016.



24. **Landers MR.** Exercise in Parkinson's disease: an evidence-based update. Parkinson's Disease Symposium, Friends of Parkinson's Disease, August 15, 2015.
25. **Landers MR.** Addressing Morale. Moderator to UNLV Leadership Forum, UNLV – March 11, 2015.
26. **Landers MR.** A Chair's Discussion: Challenges and Rewards in Four Frameworks. Panelist for the UNLV Provost's Leadership Development Academy – March 3, 2015.
27. **Landers MR.** Parkinson's disease and exercise. Lambda Kappa Delta Pre-PT Honor Society – November 6, 2014.
28. **Landers MR.** Addressing underperformance. UNLV Leadership Forum, November 12, 2014.
29. **Landers MR.** Living with Parkinson's: Treatment Options & Strategies for People with Parkinson's and Their Family Members. Expert Panelist, APDA Southern Nevada chapter, Las Vegas, Nevada, August 2014.
30. **Landers MR.** The Role of Exercise in Parkinson's Disease Management. Nevada Geriatric Education Center Parkinson's disease Conference, Reno, Nevada, May 2013.
31. **Landers MR.** Update on exercise for Parkinson's disease. American Parkinson's Disease Association Support Group, St. George, Utah, July 2012.
32. **Landers MR.** Update on Parkinson's disease. Nevada Parkinson's Disease Association monthly meeting, Las Vegas, Nevada. January 2006.
33. **Landers MR.** Improving your multiple choice tests: basics of test and item analysis. Division of Health Sciences, UNLV, October 2005.
34. **Landers MR.** New trends in rehabilitation: Neuroplasticity and Parkinson's disease. American Parkinson's Disease Association Conference, Parkinson's disease: Treatment and Therapies, Las Vegas, Nevada, October 2004.
35. **Landers MR.** Clinical assessment of abnormal illness behavior and fear-avoidance beliefs in neck and low back pain. Nevada Physical Therapy Association Annual Spring Conference, Las Vegas, Nevada, March 2004.
36. **Landers MR.** Current Concepts in Neuroplasticity. Continuing education course for UNLV clinical instructors, Las Vegas, Nevada, January 2004.
37. **Landers MR.** Evidence-Based Practice. Nevada Physical Therapy Association meeting, Las Vegas, Nevada, January 2004.
38. **Landers MR.** Current neurobiological theory of the pain relieving effects of manual therapy, TENS, and the placebo effect" presentation at the Annual Spring Conference of the Nevada Physical Therapy Association. March 2004.
39. **Landers MR.** Functional Assessment in Alzheimer's Disease. Alzheimer's Disease Current Care Perspectives 2003 Conference, Reno, Nevada. March 2003.
40. **Landers MR.** Anatomy, Physiology, and Pathology of Back Pain. 4<sup>th</sup> Annual Geriatrics in Primary Care Conference, Las Vegas, Nevada, April 2003.
41. **Landers MR.** Exercises for the patient with Parkinson's disease. American Parkinson's Disease Association: Treatment & Therapies Conference, Las Vegas, Nevada, March 2003.
42. **Landers MR.** Peripheral Nerve Injuries. Nevada Physical Therapy Association Fall Clinical Specialists' Conference, Reno, Nevada, October 2002.
43. **Landers MR.** A comparison of tidal volume and breathing rate between two sitting postures in healthy adults. 2001 NPTA Fall Conference, Las Vegas, Nevada, September 2001.
44. **Landers MR.** Abnormal illness behavior. Concentra Corporate Meeting, Las Vegas, Nevada, November 2001.
45. **Landers MR.** Waddell's non organic signs. Nevada Physical Therapy Association meeting, Las Vegas, Nevada, June 2001.
46. **Landers MR.** Ethics in physical therapy practice. Presenter/Moderator for Nevada Physical Therapy Association meeting, Las Vegas, Nevada, March 2000.

47. **Landers MR**. Functional Assessment Systems. Nevada Physical Therapy Association meeting, Las Vegas, Nevada, August 1999.

### Funded Grant Activity

- Poston B, **Landers MR** (Co-I). Long-term transcranial direct current stimulation in Parkinson's disease. National Institute of Neurological Disorders and Stroke (NINDS), NIH, R15NS098342. 8/2017-7/2022. \$420,881
- Hidecker MJC, **Landers MR** (Co-PI), Bush E, Piccorelli A, Singh R. Decreasing health disparities for Parkinson's disease in rural communities. Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN), NIGMS, NIH, Grant U54GM104944. 7/2017-6/2018. \$150,000
- Johnson K, Salgo D, Zorn J, **Landers MR** (Mentor). The moderation effect of BDNF genotype and self-reported habitual physical activity levels on postural instability in Parkinson's disease. UNLVPT Student Opportunity Award. 2016-2018. \$2,850
- Poston BJ, **Landers MR** (Co-I). Long-term cerebellar transcranial direct current stimulation to treat Parkinson's disease. Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN) Mini-Grant, NIGMS, NIH, Grant U54GM104944-01A1. 6/2015-6/2016. \$65,402
- Contreras D, Heim J, Nelson J, Nash J, Longhurst J, **Landers MR** (Mentor). Physical therapy for individuals with mild cognitive impairment. UNLVPT Student Opportunity Award. 2015-2017. \$3,000
- Klemetson B, Baer M, Scott D, Navalta J, **Landers MR** (Mentor). The effect of fatigue on balance in individuals with Parkinson's disease. UNLVPT Student Opportunity Award. 2015-2017. \$3,000
- Poston BJ, **Landers MR** (Co-I). Cerebellar transcranial direct current stimulation to treat Parkinson's disease. Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN) Mini-Grant, NIGMS, NIH, Grant U54GM104944-01A1. 7/2015-6/2016. \$8732
- Poston BJ, **Landers MR** (Co-I). Transcranial direct current stimulation to improve gait function in Parkinson's disease. Collaborative Interdisciplinary Research Award – Emerging Areas Seed Grant, UNLV. 2015-2016. \$30,000
- **Landers MR** (PI), Navalta J. High-intensity exercise and fall prevention boot camp for Parkinson's disease. Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN) Pilot Study, NIGMS, NIH, Grant U54GM104944-01A1. 7/2014-6/2015. \$84,640
- **Landers MR** (PI), Cheema R, Wilson K, Raab S. Post-concussion management of vestibulopathy in college athletes: a randomized trial comparing rest and vestibular exercises. NeuroCom a division of Natus. 2015-2016. equipment loan: \$48,000
- Rubin S, Sasaoka J, Vaughn K, **Landers MR** (Mentor). Characteristics of subjects with Parkinson's disease who display avoidance behaviors due to a fear of falling. UNLVPT Student Opportunity Research Grant 2014-2016. \$4100
- Blood J, Ostrander J, Parrish G, **Landers MR** (Mentor). Effects of expectation on balance in patients with Parkinson's disease. UNLVPT Student Opportunity Research Grant 2014-2016. \$1850
- Keil DE, Klaassen JM, **Landers MR** (Co-I), Elekonich M, McWhorter JM, Peden-Adams M. Establishing a clinical research infrastructure. Clinical Research Core (CRC) Laboratory: Support for Interdisciplinary Studies in Health Sciences. UNLV Research Infrastructure Award Program. 2007-2008, \$100,000
- Menzel N, **Landers MR** (Co-PI), Keil D. Biomarkers for low back pain-related disability. UNLV Research development Award. 2007-2008. \$9,514
- **Landers M** (PI), Patton P, de Belle S. An investigation of the neuroplastic changes in subcortical brain pathways associated with Parkinson's disease using positron emission tomography. UNLV SITE Grant. 2005-2006. \$7,500
- Wulf G, **Landers M** (Co-PI). Attentional focus training to enhance balance in individuals with Parkinson's disease. American Parkinson's Disease Association. 2004-2005. \$50,000



- LaPorta L, McWhorter JW, and **Landers M** (Co-I). Acquisition of equipment to support DEXA scan research. UNLV SITE Grant. 2002-2003. \$4,685
- **Landers M** (PI) and McWhorter JW. A Comparison of Continuing Education Practice in States with and without Mandatory Continuing Education Requirements. New Investigator Award, University Research Council, University of Nevada, Las Vegas. 2002-2003. \$4,444.00

### Media/Interviews

- **Landers MR** and Duncan R. Degenerative Disease Special Interest Group Episode 40: Fear-Avoidance Behaviors' Impact on Movement and Participation. Interviewed by Chris Burke, PT, MS, DPT, NCS, MSCS. Published June 18, 2023. Available at: <https://podcasts.neuropt.org/ddsig/dd-sig-episode-40-fear-avoidance-behaviors-impact-on-movement-and-participation-with-merrill-landers-and-ryan-duncan/>
- Deusinger SS and **Landers MR**. Storm Clouds on the Horizon: Academic Growth in Physical Therapist Education. Interview by Editor Alan M. Jette, PT, PhD, FAPTA. APTA Podcast. Published Oct. 7, 2022. Available at: <https://www.apta.org/apta-and-you/news-publications/podcasts/2022/storm-clouds-horizon-academic-growth-education>
- **Landers MR** spotlight on the UNLV Giving Matters newsletter: "Well-being in the balance: Professor makes strides in brain research" 2018.
- **Landers MR** spotlight on the UNLV advertisement: UNLV Research. Proud of It. 2016.

### Membership in Scientific/Professional Organizations

- Member American Physical Therapy Association (1994 to present)
  - Member Orthopedic Section of the American Physical Therapy Association (1995 to present)
  - Member Education Section of the American Physical Therapy Association (2003 to present)
    - American Council of Academic Physical Therapy (ACAPT), UNLV representative (2011 to present)
      - ACAPT's Research-Intensive Physical Therapy Programs (RIPPTs) Consortium, UNLV representative (2012 to present)
  - Member Neurology Section of the American Physical Therapy Association (2004 to present)
  - Member Research Section of the American Physical Therapy Association (2004 to present)
- Member Nevada Physical Therapy Association (1997 to present)
  - Chair – Research Committee (2001 to 2010)
  - Chair – Continuing Education (1999 to 2002)
  - Chair – Ethics (2000 to 2002)
  - Chair – Program/Education Committee Southern District (1999 to 2002)
  - Chair – Continuing Education Conferences (2001 to 2002)
  - Chair – Research Award Committee (2001 to 2002)
- Associate Member, Movement Disorders Society - International Parkinson and Movement Disorder Society (2014 to present)
- Member International Society for Posture & Gait Research (2011 to 2013)

### Professional Service

- American Physical Therapy Association
  - Awards Committee - Subcommittee on Publications (7/2010 to 7/2014)
  - Education Leadership Institute Fellowship Work Group (11/2014 to 8/2018)
- American Council of Academic Physical Therapy (ACAPT)
  - Program Committee (6/2018 to 10/2022)
  - Program Committee Chair (10/2019 to 10/2022)

- Ad Hoc Committee on COVID-19 response (4/2020-6/2020)
- Physical Therapy Learning Institute
  - Board of Directors (2018 to present)
  - Vice-President (2/2019 to 6/2022)
  - Branding Committee (2/2019 to present)
  - Liaison to ACAPT Planning Committee (10/2019)
  - GRJ Forum Planning Committee (10/2018 to present)
  - Diversity, Equity, and Inclusion Committee (2021 to present)
  - Lynda D. Woodruff Lecture Planning Committee (2020 to present)
- Table Facilitator - GRJ Forum on Innovation in Physical Therapy Education
  - 2014 – 2018

### **Consultative and Advisory Positions**

- Advisory Boards/Board of Directors
  - Board of Directors, Physical Therapy Learning Institute (PTLI) (2018 to present)
    - Vice President from 2019 to 2022
  - Pima Medical Institute Physical Therapist Assistant Program (2011 to present)
  - Medical Advisory Board – Friends of Parkinson’s (2015 to present)
  - External Advisory Council of the Department of Physical Therapy, Chapman University (2016 to 2022)
  - Advisor, 9zest Parkinson’s Therapy Application (2017 to 2020)
  - Advisory Board, UNLV DNP Community Advisory Board (2017)
  - Curriculum Renewal Consultant, Chapman University, Irvine, California (2017 and 2018)
  - University of Nevada Doctor of Nursing Practice Program (2012 to 2015)
  - KIDDOS non-profit organization, Las Vegas, Nevada (2013)
  - Conference Committee, Nevada Chapter, American Parkinson’s Disease Association (2003 to 2004)
- Expert Panel
  - American Parkinson’s Disease Association Sponsored Blue Ribbon Exercise Panel, June 15-16, 2017, Boston, Massachusetts
- Module evaluation
  - Assessment Module Evaluation, CAPTE, 2017
- Grant Reviewer
  - Parkinson’s Disease Society UK GAP2 Panel, 2008, 2016-2022
  - Parkinson’s Disease Society UK Health and Social Care Panel, 2018
  - Parkinson’s Disease Society UK – Scottish Government Clinical Research Fellowship, 2019
  - Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), 2016
  - National Institute of Neurological Disorders and Stroke (Neurological Sciences and Disorders U01/U44 G66 neuroNEXT Special Emphasis Panel), 2013
  - University of Utah Center on Aging (CoA) Pilot Grant Program, 2011
  - National Institute of Neurological Disorders and Stroke (Neurological Sciences and Disorders K Panel - NSD-K), 2011
  - National Institute of Neurological Disorders and Stroke (Neurological Sciences and Disorders K Panel - NSD-K), 2010
  - President’s Research Award, UNLV, 2008 and 2009
  - Nursing Department Intramural Grant, 2005
  - New Investigator Award, UNLV, 2004
- Medicolegal representation

- The Estate of Josie Schoen v. Life Care Center of Las Vegas, 2019-2020, standard of care
- The Heights of Summerlin v Moss, 2017-2018, standard of care
- Las Fyzical v. Pietranton, 2016-2018, standard of care
- Joani Enfield and John Enfield v. Joseph Barnett and Amy Kircher, 2016, reasonableness and necessity of care and costs
- Supplemental Health adv Hirsch, 2016, standard of care and liability
- Cunningham v. Offenbacker, 2009, standard of care
- Salvo v. Maria Manor, 2009, standard of care
- AllCare v. Grabski, 2008, standard of care
- Jackson v. Manor Care, 2007, standard of care and liability
- Kempton v. Respond, Inc. and Hiram Piliialoma Naumu III, 2005, standard of care
- Trochtenburg v. Ling, 2003, standard of care and liability
- Hall v. Direnfield, 2003, standard of care and liability
- Editorial Board
  - Editorial Board, Journal of Neurologic Physical Therapy, 2018 to 2021
  - Associate Editor, Journal of Neurologic Physical Therapy, 2021 to present
- Manuscript Reviewer
  - Physical Therapy Journal (2006-present), senior reviewer
  - Journal of Neurologic Physical Therapy (2010-present)
  - Other journals: Journal of Aging and Physical Activity, Gait & Posture, Archives of Physical Medicine and Rehabilitation, Parkinson's Disease and Related Disorders, Physiotherapy Theory and Practice, Journal of the Neurological Sciences, Physical Therapy in Sport, Journal of Orthopedic and Sports Physical Therapy, Journal of Applied Physiology, Stroke, Physiotherapy Journal, Aging and Mental Health, BMC Neurology, Biological Research for Nursing, Experimental Brain Research, PLOS ONE, Parkinson's Disease, Alzheimer's Disease and Parkinsonism, Physiotherapy Research International, BMC Musculoskeletal Disorders, Western Journal of Nursing Research, Journal of NeuroEngineering and Rehabilitation, Journal of Manipulative and Physiologic Therapeutics, Physiology & Behavior, Surgical Laparoscopy, Endoscopy & Percutaneous Techniques
- Planning Committee
  - Parkinson's Disease Conference, Nevada Geriatric Education Center (2002 to 2005)
- Book Reviewer
  - "Clinical Disorders of Balance, Posture, and Gait" by Bronstein, Brandt, Woollacott, and Nutt, 2008.
  - Brotsman BS, Wilk KE. Clinical Orthopaedic Rehabilitation. Philadelphia: Mosby, 2006.
  - Nath J. Using Medical Terminology: A Practical Approach. Lippincott Williams & Wilkins, 2005.

## **Community Service**

- Symposium organizer, Friends of Parkinson's Interprofessional Health Symposium on the Latest Treatment Options for Parkinson's Disease, Las Vegas, Nevada, 8/19/2017
- Nevada Research Consortium on Dementia (2015 to present)
- Nevada Stroke Registry Council (2014-2015)
- Judge - Nevada Brain Bee (2014)
- Committee member and Vice-Chair - Continuing Education Advisory Committee, State of Nevada Board of Physical Therapy Examiners (2000 to 2010)
- Physical Therapist - UNLV Aquatic Therapy Pro Bono Services (2001 to 2004)
- Presenter - Health Careers Opportunity Program (HCOP) on physical therapy and the importance of college education, Valley High School, 2002

- Clinical Instructor - UNLV (2000)
- Clinical instructor - CSN (1999)

### **Services to the University/School/Department on Committees/Councils/Commissions**

- Department of Physical Therapy
  - Chair - Physical Therapy (2011 to present)
  - Committee member - PhD in IHS – Rehab Sciences Committee (2013 to 2019)
  - Committee member – Media Committee (2011 to 2021)
  - Committee member – Curriculum (2011 to 2018)
  - Committee member - Recruitment (2012 to 2017)
  - Chair - Academic Review Committee, Department of Physical Therapy (2004 to 2011)
  - Committee member – Academic Review Committee (2001 to 2011)
  - Committee member - Admissions (2001 to 2009)
  - Chair – Admissions (2007 to 2008)
  - Class Advisor (2004 and 2006)
  - Editor – Alumni Newsletter (2005, 2006, 2012)
- School of Integrated Health Sciences
  - Committee member - Executive Committee (2011 to present)
  - Chair - Faculty Review Committee (2007 to 2011)
  - Committee member - Interdisciplinary Research Planning committee (2007-2008)
  - Committee member - Distinguished Scholar Award (2004 to 2005)
- Division of Health Sciences
  - External reviewer – Research scholarships for School of Community Health Sciences, 2015
  - Chair – PhD in Interdisciplinary Health Sciences Program Planning Committee (2013 to 2015)
- University of Nevada, Las Vegas
  - Committee member, UNLV Outstanding Department Chair Award (2018 to present)
  - Committee member, Top Tier Research Intensive Faculty Committee (2019 to 2021)
  - Executive Committee, PhD in Neuroscience Program Planning Committee (2019 to 2020)
  - Committee member, Research Advisory Committee on Cannabis and Hemp (2019 to 2020)
  - Committee member, Professional Development Academy Advisory Board (PDAAB) (2018 to 2020)
  - Committee member, Top Tier Graduate Education Working Group (2015 to 2019)
  - Committee member, Leaders Advisory Council (2014 to 2019)
  - Committee member, UNLV Promotion and Tenure and Top Tier alignment (2016 to 2018)
  - Chair, Top Tier Doctoral Graduate Research Assistant Sub-Committee (2016 to 2018)
  - Mentor - Department Chair Mentor Program (2013 to 2018)
  - Committee member, Top Tier Initiative – Student Achievement Committee (2015 to 2017)
  - Rebel Grad Slam 3 Minute Thesis Competition – Judge (2015 to 2017, 2019)
  - Committee member, UNLV Collaborative Leadership Group (2016)
  - Committee member - Research Data Repositories Committee (2011 to 2012)
  - Advisory Committee member – UNLV Teaching and Learning Center (2008 to 2009)
  - Committee member - Neurodegenerative Planning Initiative Committee (2007)
  - Committee member – Special Hearings (2003-2004)
  - Faculty Senator - School of Allied Health Sciences (2002 to 2005)
  - College Marshall – Fall University Commencement (2002)
  - Committee member – Annual Campus Planning Retreat (2002)

## **Honors and Awards**

- 2022 – Certificate of Commendation, American Council of Academic Physical Therapy
- 2018 1<sup>st</sup> place – Mechanical Engineering, EvoGlove Faculty Advisor, Fred & Harriet Cox Senior Design Competition, Howard R Hughes College of Engineering, UNLV
- 2017 UNLV Department Chair of the Year
- 2014 UNLV Travel Award
- 2013 UNLV Travel Award
- 2013 Rose Excellence in Research Award from the Orthopaedic Section (APTA)
- 2012 John Medeiros Best Paper Award from the Journal of Manual & Manipulative Therapy
- 2011 Cyrus Tang Award for Parkinson's Disease Research (\$10,000)
- 2011 Wound Management SIG Research Award (Section of Electrophysiology and Wound Management, APTA)
- 2010 UNLV Travel Award
- 2009 eLayne Library Verve Award for Parkinson's disease research (\$5000)
- 2008 UNLV Travel Award
- 2006 UNLV Travel Award
- 2005 Faculty Development Award. Nevada Geriatric Education Center (\$1000)
- 2005 UNLV Travel Award
- 2003 Nevada Physical Therapy Association Leadership Award
- 2002 New Investigator Award, University Research Council, University of Nevada, Las Vegas
- 2000 Nevada Physical Therapy Association Award of Merit

## **Continuing Education Attended**

- American Physical Therapy Association Combined Sections Meeting
  - Boston, Massachusetts, February 2002
  - Nashville, Tennessee, February 2004
  - New Orleans, Louisiana, February 2005
  - San Diego, California, February 2006
  - Boston, Massachusetts, February 14-18, 2007
  - Las Vegas, Nevada, February 2-6, 2009
  - San Diego, California, February 17-20, 2010
  - New Orleans, Louisiana, February 10-12, 2011
  - Chicago, Illinois, February 8-12, 2012
  - San Diego, California, January 21-24, 2013
  - Las Vegas, Nevada, February 4-6, 2014
  - Indianapolis, Indiana, February 4-7, 2015
  - Anaheim, California, February 17-20, 2016
  - New Orleans, Louisiana, February 22-25, 2018
  - Washington, DC, January 23-26, 2019
  - Denver, Colorado, February 12-15, 2020
  - Virtual, February 2021
  - San Antonio, Texas, February 2-5, 2022
  - San Diego, California, February 22-25, 2023
- NEXT Conference and Exposition (Formerly known as the Annual Conference & Exposition) of the American Physical Therapy Association
  - Washington, D.C., June, 2003

- Chicago, Illinois, July 2004
- San Antonio, Texas, June 11-14, 2008
- Baltimore, Maryland, June 10-14, 2009
- Boston, Massachusetts, June 17-20, 2010
- National Harbor, Maryland, June 3-6, 2015
- International Parkinson and Movement Disorder Society
  - 10<sup>th</sup> International Congress, Kyoto, Japan, Oct 28 – Nov 2, 2006
  - 16<sup>th</sup> International Congress, Dublin, Ireland, June 17-21, 2012
  - 17<sup>th</sup> International Congress, Sydney, Australia, June 16-20, 2013
  - 18<sup>th</sup> International Congress, Stockholm, Sweden, June 8-12, 2014
  - 19<sup>th</sup> International Congress, San Diego, California, June 14-18, 2015
  - 21<sup>st</sup> International Congress, Vancouver, British Columbia, Canada, June 4-8, 2017
  - 24<sup>th</sup> International Congress, MDS Virtual Congress, September 12-16, 2020
  - MDS Virtual Congress, September 17-22, 2021
- World Parkinson Congress
  - 4<sup>th</sup> Congress, September 20-23, 2016, Portland, Oregon
  - 5<sup>th</sup> Congress, June 7-10, 2019, Kyoto, Japan
  - WPC Virtual, May 17-21, 2021
- International Association of Parkinsonism and Related Disorders
  - 16th International Congress on Parkinson's Disease and Related Disorders – Berlin, Germany, June 5-9, 2005.
  - 27<sup>th</sup> World Congress on Parkinson's Disease and Related Disorders – Prague, Czech Republic, May 1-4, 2022.
- Physical Therapy Education Leadership Conference (American Council on Academic Physical Therapy and APTA Academy of Education)
  - Clearwater Beach, Florida, October 1-2, 2011
  - Greenwich, Connecticut, October 5-7, 2012
  - Portland, Oregon, October 4-6, 2013
  - Kansas City, Missouri, October 10-11, 2014
  - Baltimore, Maryland, October 2-4, 2015
  - Phoenix, Arizona, October 7-9, 2016
  - Columbus, Ohio, October 13-15, 2017
  - Jacksonville, Florida, October 12-14, 2018
  - Bellevue, Washington, October 17-20, 2019
  - Virtual ELC, October 16-18, 2020
  - Atlanta, Georgia, October 20-24, 2021
  - 17th Annual Physical Therapy Education Leadership Conference, Milwaukee, Wisconsin, Oct 28-30, 2022
- Annual International Symposium on Regenerative Rehabilitation, Alliance for Regenerative Rehabilitation Research and Training
  - 3<sup>rd</sup> Symposium, UCSF, San Francisco, California, April 10-11, 2014
  - 5<sup>th</sup> Symposium, Emory University, Atlanta, Georgia, October 14-16, 2016
  - 6<sup>th</sup> Symposium, Pittsburgh, Pennsylvania, November 1-3, 2017
- CAPTE Self-Study Workshop
  - Clearwater Beach, Florida, September 31-Oct 1, 2011
  - Las Vegas, Nevada, February 2-3, 2014

- Indianapolis, Indiana, February 2-3, 2015
- 2nd International Conference on Movement Dysfunction. Pain and Performance: Evidence & Effect. Edinburgh, Scotland, United Kingdom, September 2005
- 2nd International Congress on Gait & Mental Function: the interplay between walking, behavior, and cognition. Amsterdam, The Netherlands, February 1-3, 2008
- Understand and Explain Pain. Lorimer Moseley. Las Vegas, Nevada. August 21-22, 2010
- Joint World Congress of ISPGR and Gait & Mental Function, Trondheim, Norway, June 24-28, 2012
- 2nd Annual Shaping the Management of Parkinson's Disease: Comprehensive Review of Discoveries and Clinical Trials, Las Vegas, NV, February 8-9, 2014
- Multiple Sclerosis Southwestern Regional Forum – The Cleveland Clinic, Las Vegas, NV, March 8, 2014
- Preparing the next generation of physical therapists for innovative practice “Physical Therapy Leaders Networking to Transform Health Care” – The George Washington University, Washington, D.C., July 25-26, 2014
- Introduction to the principles and practice of clinical research – The National Institutes of Health Clinical Center, webinar course series, October 2014 – March 2015
- 2<sup>nd</sup> Annual Meeting of the Mountain West CTR-IN, Las Vegas, Nevada, June 8-10, 2015
- ACE Leadership Academy for Department Chairs, Miami, Florida, January 12-14, 2016
- IV STEP Conference – Prevention, Prediction, Plasticity, and Participation, July 14-19, 2016, Ohio State University, Columbus, Ohio
- HLTH 2018, Las Vegas – May 6-9, 2018

#### **Current Teaching Responsibilities**

- DPT 756 (Neurophysiology – 3 credits) – DPT Program
- HSC 705 (Clinical Trial Design and Analysis – 3 credits) – PhD in Interdisciplinary Health Sciences Program

#### **Trainee Advisement - Research Fellowship**

2021 – 2021	Helen Meira Cavalcanti, PT, MS, PhD(c) Post-Graduate Program in Health Sciences Federal University of Bahia (UFBA), Brazil Program: Exploring the contributors to freezing of gait severity in Parkinson's disease Current position: UNLV
2023-2023	Tamara de Paiva, PT, MS Research mentorship/experience University of Brasilia, Brazil Physical therapist, Fit Studio Pilates and Gyrotonic, Brasilia, Brazil

#### **Trainee Advisement – PhD**

2017 – 2021	Jason K. Longhurst, PT, DPT, PhD, NCS PhD in Interdisciplinary Health Sciences – Rehabilitation Sciences Track Dissertation: Development of a novel cognitive-motor dual task assessment battery in neurodegenerative disease Current position: Assistant Professor, Department of Physical Therapy and Athletic Training, Saint Louis University, St. Louis, Missouri
2017 – 2021	John V. Rider, PhD, OTR/L, MSCS, CEAS, CPAM PhD in Interdisciplinary Health Sciences – Rehabilitation Sciences Track



Dissertation: Exploring treatment targets to mitigate fear of falling activity avoidance behavior in Parkinson's disease and older adults  
Current position: Associate Professor, School of Occupational Therapy, Touro University Nevada, Henderson, Nevada

2020 – present

Michael Gevertsman, PT, DPT  
PhD in Interdisciplinary Health Sciences  
Dissertation: TBD  
Current position: physical therapist at Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, Nevada

2022 – present

Adetayo Babarinde, PT, MS  
PhD in Interdisciplinary Health Sciences  
Dissertation: TBD  
Current position: Graduate Assistant