

Curriculum Vitae
Gammon M. Earhart, PT, PhD, FAPTA
July 9, 2024

Address and Telephone Numbers:

Office

Program in Physical Therapy
Washington University School of Medicine
MSC 8502-66-1101
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Present Position:

Associate Dean for Physical Therapy
Director, Program in Physical Therapy
Professor, Physical Therapy, Neuroscience, and Neurology
Washington University School of Medicine

Education:

1994 B.A. – Psychobiology
 Arcadia University, Glenside, PA
1996 M.S.P.T. – Physical Therapy
 Arcadia University, Glenside, PA
2000 Ph.D. – Movement Science
 Washington University in St. Louis, St. Louis, MO
2000-2004 Postdoctoral Fellowship - Neuroscience
 Oregon Health & Science University, Portland, OR

Academic Positions / Employment:

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| 1996-2000 | Graduate Research Asst. | Washington University in St. Louis |
| 1997-2000 | Physical Therapist | TheraPeak & RehabPlus Inc. |
| 2000-2004 | Postdoctoral Fellow | Oregon Health & Science University |
| 2004-2005 | Instructor, Program in PT | Washington University School of Medicine |
| 2005-2010 | Assistant Professor | Washington University School of Medicine |
| 2010-2013 | Associate Professor (tenured) | Washington University School of Medicine |
| 2012-2016 | Associate Director | Washington University in St. Louis |
| | Movement Science PhD Program | |
| 2014-present | Professor | Washington University School of Medicine |
| 2014-present | Director, Program in PT | Washington University School of Medicine |
| 2020-present | Associate Dean for PT | Washington University School of Medicine |

University and Clinical Appointments and Committees:

University

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| 2008-present | Member, Division of Biology and Biomedical Sciences |
| 2013-2014 | Program in Neuroscience PhD Admissions Committee |
| 2013-2017 | Graduate Council, Graduate School of Arts & Sciences |

School of Medicine

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| 2014-present | Education Leadership Council |
| 2014-2015 | Research Affairs Committee |
| 2015-2016 | Academic Affairs Committee |
| 2015-2016 | Gender Equity Committee |
| 2016-2017 | Search Committee for Senior Associate Dean of Education |
| 2017-2020 | Pay Equity Steering Committee |
| 2017-2020 | Task Force for Advancement of Women Faculty & Leaders |
| 2020-present | Diversity Advisor and DEI Liaison |
| 2021-present | Interdisciplinary Pro Bono Clinic Steering Committee |
| 2021-2023 | Center for Interprofessional Education Steering Committee |
| 2021-present | Equity Champion |
| 2022-present | Eliot Society Volunteer Network Fundraiser |

Program

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| 2004-present | Research Advisory Council |
| 2005-2009 | Faculty Search Committee |
| 2006-2008, 2011 | Years of Service Awards Committee |
| 2007-2009, 2013-2014 | Admissions Committee |
| 2008-2009 | Steven J. Rose Symposium Organizing Committee |
| 2011-2012 | Teaching Evaluation Task Force |
| 2012 | Strategic Planning Co-Chair |
| 2012-2013 | Faculty Performance Metrics Committee |
| 2012-2013 | Research Division Development Committee |
| 2013 | Education Division Metrics Task Force |
| 2017-present | Physical Therapy Inclusion & Diversity (PT ID), Co-founder |
| 2021-present | Physical Therapy Competency Attainment Committee |
| 2022-present | DPT Education Committee |

Professional Licensure and Board Certification:

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| 2004-present | Physical Therapist #111723 Missouri Board of Registration for the Healing Arts |
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Honors and Awards:

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| 1993 | Heinz Travel Award for International Research |
| 1994 | Beaver College Physical Therapy Scholarship |
| 1994-1996 | Gundaker Foundation Scholarship |
| 2001 | Best Postdoctoral Presentation, Clinical Neurosciences Research Day, University of Calgary |
| 2002-2003 | Postdoc Paper of the Year Award, Runner-Up, Oregon Health & Science University |
| 2005 | Abstract Chosen for Society for Neuroscience Public Information Committee Press Book |
| 2005 | Eugene Michels New Investigator Award, American Physical Therapy Association (APTA) |
| 2006, 2008 | Outstanding Faculty Mentor Certificate of Special Recognition, Washington University in St. Louis |
| 2010, 2011 | Nominee for Golden Synapse Award for best paper published in <i>J Neurol Phys Ther</i> |

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| 2010 | Friedman Award for Outstanding Contributions to the Advancement of Geriatric Care, Dorismae and Harvey A. Friedman Program on Aging, Barnes-Jewish Hospital Foundation |
| 2012 | Alumni Achievement Award, Arcadia University College of Health Sciences |
| 2013 | Outstanding Faculty Mentor Award, Washington University in St. Louis |
| 2014 | Chattanooga Research Award for best paper published in <i>Physical Therapy</i> , "Comparative utility of the BESTest, Mini-BESTest, and Brief-BESTest for predicting falls in individuals with Parkinson disease |
| 2015 | Distinguished Alumni Award, Oxford Area High School |
| 2015 | Elite Reviewer Recognition, <i>Archives of Physical Medicine & Rehabilitation</i> |
| 2015 | Outstanding Reviewer, <i>Gait & Posture</i> |
| 2016 | Excellence in Neurologic Research Award, APTA Academy of Neurologic Physical Therapy |
| 2016 | Chattanooga Research Award for best paper published in <i>Physical Therapy</i> , "Toward understanding ambulatory activity decline in Parkinson disease" |
| 2019 | Catherine Worthingham Fellow of the American Physical Therapy Association (FAPTA) |
| 2020 | Golden Synapse Award for best paper published in the <i>Journal of Neurologic Physical Therapy</i> , "Mental Singing Reduces Gait Variability More Than Music Listening for Healthy Older Adults and People with Parkinson Disease" |
| 2023 | Linda and William Hamilton Annual Dance Wellness Award, International Association for Dance Medicine & Science |
| 2023 | Marian Williams Award for Research in Physical Therapy, American Physical Therapy Association |

Editorial / Reviewer Responsibilities:

- *Manuscript reviewer for more than 30 peer-reviewed journals in the fields of rehabilitation, neuroscience, and neurology*
- Editorial Board Member, *Journal of Neurodegenerative Diseases*, 2012-2017
- Associate Editor, *Gait & Posture*, 2013-present
- Editorial Board Member, *Physical Therapy*, 2015-2020
- Associate Editor, *Neurorehabilitation & Neural Repair*, 2021-present
- Veterans Health Administration, Rehabilitation Research & Development Grant Reviewer, 2004, 2009, 2011, 2013, 2014, 2020
- NIH, NINDS, NSD-B Ad Hoc Study Section Member, 2007
- BJHF/ICTS Grant Reviewer, 2009, 2012
- Israel Science Foundation Grant Reviewer, 2009, 2013, 2016, 2019
- The Stroke Association (UK) Grant Reviewer, 2009
- Parkinson's Disease Association (UK) Grant Reviewer, 2009, 2011
- NIH Challenge Grant Reviewer, 2009
- National Science Foundation Grant Reviewer, 2009
- Prinses Beatrix Fonds (Netherlands) Grant Reviewer, 2009, 2011
- Auckland Medical Research Foundation (New Zealand) Grant Reviewer, 2009
- Parkinson's Disease Society (UK) Grant Reviewer, 2009
- NIH, NICHD/NCMRR, MRS Ad Hoc Study Section Member, 2010, 2019, 2022
- National Parkinson Foundation Grant Reviewer, 2011
- Fonds Wetenschappelijk Onderzoek-Research Foundation Flanders (Belgium) Grant Reviewer, 2011, 2012, 2018
- Food and Health Bureau: Health and Health Services Research Fund (China) Grant Reviewer, 2011, 2013

- Qatar National Research Fund Grant Reviewer, 2011
- MS Research Australia Grant Reviewer, 2011
- National Sciences and Engineering Research Council of Canada (NSERC), Canadian Institutes of Health Research (CIHR) Grant Reviewer, 2011
- Alzheimer's Association Grant Reviewer, 2012
- NIH, Special Emphasis Panel Reviewer, Musculoskeletal Rehabilitation, 2012
- NIH, Special Emphasis Panel Reviewer, Neurobiological Mechanisms of Brain Diseases, 2012
- Alberta Innovates Health Solutions (Canada) Grant Reviewer, 2012
- Lead Guest Editor, 2012, Special Issue: Rehabilitation and Parkinson's Disease for the journal Parkinson's Disease
- NIH, NINDS, NSD-K Ad Hoc Study Section Member, 2013, 2017
- Department of Defense, Defense Medical Research and Development Program Grant Reviewer, 2013
- NIH, Brain Disorders and Clinical Neuroscience IRG, Ad Hoc Study Section Member, 2013
- NIH, Stroke Trials Network Reviewer, 2013
- Parkinson's Disease Foundation Grant Reviewer, 2013, 2014, 2015
- Health Research Board (Ireland) Grant Reviewer, 2013
- Lead Guest Editor, 2013, Special Issue Series: Rehabilitation and Parkinson's Disease for the journal Parkinson's Disease
- NIH, Special Emphasis Panel Reviewer, NINDS Clinical Trials, 2015, 2017
- Lee Silverman Voice Therapy (LSVT) Grant Reviewer, 2015
- NIH Special Emphasis Panel Reviewer, Exercise in Aging, 2015
- NIH Loan Repayment Program Ad Hoc Reviewer, NICHD, 2017
- Parkinson's UK Grant Reviewer, 2018, 2019, 2022, 2023
- NIH Mock Study Section, WUSM, 2018
- European Research Council, 2019
- Swiss National Science Foundation, 2019, 2023
- Swedish Knowledge Foundation, 2019
- NIH, SBIR/STTR: Psycho/Neuropathology Lifespan Development, STEM Education, 2020
- Dutch Research Council (NWO), 2021
- Parkinson's Foundation Grant Reviewer, 2021, 2022
- NIH, NICHD Annual T32 Review Meeting, 2022
- NIH/NCCIH Promoting Research on Music and Health Review Panel, 2023
- Netherlands Organisation for Scientific Research (NWO/ZonMW) Grant Reviewer, 2023
- Austrian Science Fund (FWF) Grant Reviewer, 2023
- Hilary & Weston Galen Foundation Grant Reviewer, 2023, 2024
- NIH/NINDS, G64 (NSDK) Special Emphasis Panel Reviewer, Clinical Trials & Comparative Effectiveness Studies in Neurology, 2024
- NIH/NCCIH, Feasibility Trials of the NIH Music-based Interventions Toolkit for Brain Disorders of Aging Review Panel, 2024

Professional Societies and Organizations:

American Physical Therapy Association (APTA)

1994-present Member

1997-present Member, Academy of Physical Therapy Research

1998-present Member, Academy of Neurologic Physical Therapy

2014-present Member, Academy of Physical Therapy Education

2000-2004 Member, Oregon Physical Therapy Association

2002-2006 Member, Neurology Section Research Committee
2006-2009 Chair, Neurology Section Research Committee
2013-2014 President Elect, Section on Research
2013-2018 Member, Research Portfolio Task Force, Foundation for Physical Therapy
2014-2018 Member, Scientific Advisory Council, Foundation for Physical Therapy
2014-2018 President, Section on Research
2014-2018 Delegate/Alternate Delegate, Section on Research, House of Delegates
2019 Education Leadership Partnership Essential Resources Strategy Meeting
2024-2025 National Awards Committee, Subcommittee on Lectures

Missouri Physical Therapy Association (MPTA)

2004-present Member, Missouri Physical Therapy Association (MPTA)
2010-2012 Chair, Research Committee

International Society for Posture and Gait Research

2002-present Member
2013-present Member, Awards Committee
2014-2016 Member, Scientific Content Committee

Other

1997-present Member, Society for Neuroscience
2000-present Member, International Society for Posture & Gait Research
2002-2022 Member, Society for the Neural Control of Movement
2005-present Member, Academic Women's Network
2007-present Member, International Parkinson and Movement Disorder Society
2008-present Member, Parkinson Disease Exercise and Physical Activity Network
2010-present Member, Exercise and Parkinson's Disease Consortium
2015-present Member, American Society of Neurorehabilitation
2017-2018 Member, Frontiers in Rehabilitation Science and Technology (FiRST) Council

Major Invited Professorships and Lectureships:

1. "Training Turning: Potential Clinical Application of the Rotating Treadmill", Neurological Sciences Institute, Oregon Health & Science University, October 2006, Portland, OR
2. "Effects of Dance on Balance and Mobility in Parkinson Disease", The Science of Balance Rehabilitation Workshop, January 2008, Phoenix, AZ
3. "Use of Tango to Improve Functional Mobility in Individuals with Parkinson Disease", First International Tango Therapy Congress, July 2008, Rosario, Argentina
4. "From Research to Practice: A Physical Therapy Perspective on Parkinson Disease", Davis Phinney Foundation Victory Summit, October 2008, Westminster, CO
5. "Dance as Therapy for Individuals with Parkinson Disease", European Psychology Society Workshop on Dance and the Cognitive Neurosciences, January 2009, London, UK
6. "Shall We Dance? Benefits of Dance for People with Parkinson Disease", Parkinson Disease Foundation and Houston Area Parkinson's Society, April 2009, Houston, TX
7. "The Why and How of Tango for PD", University of Cincinnati Sunflower Revolution, September 2009, Cincinnati, OH
8. "Tango for Parkinson Disease: Latest Evidence and Guidelines for Implementation", Second International Tango Therapy Congress, October 2009, Mendoza, Argentina
9. "Long-term Effects of a Community-Based Tango Program for People with Parkinson Disease", Third International Tango Therapy Congress, July 2010, Buenos Aires, Argentina

10. "Tango for Parkinson Disease: A Research Synthesis", Fourth International Tango Therapy Congress, July 2011, Rosario, Argentina
11. "Locomotor Control in Parkinson Disease", Neurology Grand Rounds, Oregon Health & Science University, September 2011, Portland, OR
12. "From Turtles to Turning to Tango: Studies on the Neural Control of Movement", Arcadia University, January 2012, Glenside, PA
13. "Workshop on Patient Care: The St. Louis Experience", XII ParkinsonItalia Conference, April 2012, Cuneo and Verbania, Italy
14. "Rehabilitation Today: Tangotherapy", XII ParkinsonItalia Conference, April 2012, Cuneo and Verbania, Italy
15. "PD4PD: Partnered Dance for Parkinson Disease" The 2012 McMaster NeuroMusic Conference "Come Dance With Me: Movement Control in Brain and Body", October 2012, Hamilton, ON, Canada
16. "Diagnosis and Treatment of Gait and Balance Disorders", Neuroedge: International Neurology Update, April 2013, Mumbai, India
17. "Coupling the Benefits of Pharmacological and Surgical Approaches with Rehabilitation", International Symposium on Postural Instability and Falls in Parkinson Disease, June 2013, Sydney, Australia
18. "10 Things to Know About Rehabilitation in Parkinson Disease", International Society of Posture and Gait Research, June 2013, Akita, Japan
19. "Turning Point: How Experience Can Modify Trajectory", Sensing Motion for Action: A Tribute to the Career of Geoffrey Melvill Jones, July 2013, Montreal, Canada
20. "How Do We Know Dance Helps People with Parkinson's?", World Parkinson Congress, October 2013, Montreal, Canada
21. "Testudo to Tango: A Moving Story", University of Maryland, May 2014, College Park, MD
22. "National Parkinson's Disease Roundtable", YMCA of the USA, October 2014, Online Meeting
23. "The Science and Beauty of Tango: A Joint Presentation with the St. Louis Symphony's Cortango", St. Louis College of Pharmacy Convocation Series, January 2015, St. Louis, MO
24. "The Power of Tango", St. Louis Symphony Community Cares Program, St. Louis Symphony Powell Hall, April 2015, St. Louis, MO
25. "Rehabilitation in Parkinson's Disease: Exercise is as Important as Medication", World Confederation for Physical Therapy, May 2015, Singapore
26. "Keep Your Balance: Caring for Mind and Body with Parkinson's", Partners in Parkinson's, Michael J. Fox Foundation, October 2015, St. Louis, MO
27. "A Contemporary View of Exercise for Movement Disorders", International Parkinson's and Movement Disorder Society, June 2016, Berlin, Germany
28. "Tango, and Parkinson Disease", ParkinsonItalia, Verbania, Italy, June 2016
29. "Practical implications: Integration of exercise into everyday life", World Parkinson Congress, September 2016, Portland, OR
30. "Addressing Movement Disorders Through Movement: Exercise, Rehabilitation and Parkinson Disease", University of Alabama, March 2017, Birmingham, AL
31. "Moving Toward Better Health: The Importance of Exercise for People with Parkinson's Disease", Iowa State University, April 2017, Ames, IA
32. "Movement Matters: Exercise, Rehabilitation and Parkinson Disease", University of Florida, October 2017, Gainesville, FL
33. "Let Yourself Fall", Northwestern University Department of Physical Therapy and Human Movement Sciences, Commencement Speaker, April 2018, Chicago, IL
34. "Falls and Freezing in Parkinson's Disease", Keynote Presentation, Neuro-Optometric Rehabilitation Association, September 2018, St. Louis, MO

35. "Enfermedad de Parkinson y Tango: Doce Años de Investigación Resumida en Dos Minutos y una Sola Tabla", Twelfth International Tango Therapy Congress, July 2020, Rosario, Argentina
36. "A tale of three studies: exploring different approaches to enhance walking in Parkinson disease", Keynote Address, International Society of Posture & Gait Research, July 2023, Brisbane, Australia
37. "All or none: taking action to reach our full potential through CBE", IGNITE Address, 10th Geneva R Johnson on Innovations in Physical Therapy Education Forum, American Council of Academic Physical Therapy Education Leadership Conference, October 2023, Philadelphia, PA
38. "Sing for your saunter: using self-generated rhythmic cues to enhance gait in Parkinson disease", Invited Speaker, Special Research Symposium in Honor of Dr. Rebecca Craik, November 2023, Arcadia University, Glenside, PA
39. "Sing for your saunter: enhancing walking for people with Parkinson's using self-generated rhythmic cues", NIH Music as Medicine: The Science & Clinical Practice Workshop, December 2023, Bethesda, MD
40. "Bridging Art & Science to Optimize Human Movement", Missouri University of Science & Technology, March 2024, Rolla, MO
41. "Something Worth Making a Song and Dance About: Complementary Therapies for Parkinson Disease", Greene Lecture, Springfield College, April 2024, Springfield, MA
42. "'Get up offa that thing, and dance 'til you feel better!' The why and how of encouraging dance for people with Parkinson disease", American Congress of Rehabilitation Medicine, November 2024, Dallas, TX.
43. "Music is medicine: ask the experts", American Congress of Rehabilitation Medicine, November 2024, Dallas, TX.

Consulting Relationships and Board Memberships:

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| 2008-present | Parkinson Disease Exercise and Physical Activity Network (PD EXACT) Member, Founding and Advisory Committee |
| 2009 | Second International Congress of Tangotherapy Honorary Committee, Mendoza, Argentina |
| 2010 | Third International Congress of Tangotherapy Honorary Committee, Buenos Aires, Argentina |
| 2011 | Fourth International Congress of Tangotherapy Honorary Committee, Rosario, Argentina |
| 2012 | Fifth International Congress of Tangotherapy Honorary Committee, Rosario, Argentina |
| 2013 | Sixth International Congress of Tangotherapy Honorary Committee, Rosario, Argentina |
| 2014-present | The Rehabilitation Institute of St. Louis Governing Body Member |
| 2015-2016 | Canadian Institutes of Health Research Dance and Parkinson's Disease: A Research Dissemination Project Investigative Team: Rachel Bar, Jennifer Lapum, Michelle Dionne, & Lorraine Kalia, Advisory Committee Member/Consultant |
| 2017 | American Parkinson Disease Association Blue Ribbon Exercise Panel |
| 2017 | Foundation for Physical Therapy Committee on Research |
| 2018 | Boston University College of Health & Rehabilitation Sciences: Sargent College, |

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| | Academic Program Reviewer | |
| 2020 | NINDS/NICHHD Common Data Elements (CDEs) Rehabilitation Working Group | |
| 2021-2027 | Parkinson's UK College of Experts | |
| 2020-2021 | World Health Organization Rehabilitation Package of Interventions Development Group for Parkinson's Disease | |
| 2022-present | Blackbird Neuroscience, Inc. | |

Research Support:
Governmental (current)

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| R33 AT010753 (PI: Gammon Earhart) | 2023-2026 |
| NIH/NCCIH/NINDS | \$1,600,000 |
| Sing for Your Saunter: Using Self-Generated Rhythmic Cues to Enhance Gait in Parkinson's | |
| Role: PI | |

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| U01 NS113851 (PI: Daniel Corcos) | 2019-2026 |
| NIH/NINDS | \$18,827,866 |
| Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3 | |
| Role: Site PI | |

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| R01 NS075321 (PI: Joel Perlmutter) | 2016-2026 |
| NIH/NINDS | \$10,554,014 |
| Investigations of Dementia in Parkinson Disease | |
| Role: Co-Investigator | |

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| R01 NS097437-06 (PI: Meghan Campbell) | 2017-2028 |
| NIH/NINDS | \$3,527,771 |
| Parkinson Disease Clinical Subtypes: Validation, Clinical Utility, and Biological Correlates | |
| Role: Co-Investigator | |

Governmental (past)

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| F32 NS41804 (PI: Gammon Earhart) | 2002-2004 |
| NIH National Research Service Award | \$73,740 |
| Locomotor Adaptation Following Podokinetic Stimulation | |
| Role: Principal Investigator | |

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| K01 HD048437 (PI: Gammon Earhart) | 2005-2009 |
| NIH | \$494,432 |
| Mentored Research Scientist Career Development Award | |
| Parkinsonian Gait Disorders: Mechanisms and Treatment | |
| Role: Principal Investigator | |

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| R01 DC04082 (PI: Fay B. Horak) | 2006-2011 |
| NIH/NIDCD | \$8,500/year |
| Oregon Health & Science University | |
| Adaptation of Spatial Orientation in Locomotion and Posture | |
| Role: Co-Investigator | |

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| R01 HD056015 (PI: Gammon Earhart) | 2009-2012 |
| NIH/NCMRR | \$475,200 |

Oculomotor Control and Gait in Parkinson Disease
Role: Principal Investigator

R01 NS041509 (PI: Joel Perlmutter) 2009-2017
NIH/NINDS \$3,385,654
Mechanisms of Deep Brain Stimulation
Role: Co-Investigator

R01 HD070855 (PI: Tamara Hershey) 2012-2017
NIH/NICHD \$2,400,000
Tracking Neurodegeneration in Early Wolfram Syndrome
Role: Co-Investigator

T32 HD007434 (PI: Gammon Earhart) 2013-2017
NIH/NICHD \$450,000
Doctoral Training Program in Movement Science
Role: Principal Investigator

R01 NS077959 (PI: Gammon Earhart) 2012-2018
NIH/NINDS \$1,900,000
Exercise and Parkinson's: Comparing Interventions and Exploring
Neural Mechanisms
Role: Principal Investigator

R01 HD068290 (PI: Catherine Lang) 2017-2022
NIH/NICHD \$2,200,000
Translation of In-Clinic Gains to Gains in Daily Life After Stroke
Role: Co-Investigator

R01 NS097437 (PI: Meghan Campbell) 2017-2023
NIH/NINDS \$2,345,789
Parkinson disease clinical subtypes: Validation, clinical utility,
and biological correlates
Role: Co-Investigator

R61 AT010753 (PI: Gammon Earhart) 2019-2023
NIH/NCCIH/NINDS \$952,959
Sing for Your Saunter: Using Self-Generated Rhythmic Cues to Enhance Gait in Parkinson's
Role: PI

R61 AT010753-S1 (PI: Gammon Earhart) 2020-2023
NIH/NCCIH \$173,263
Sing for Your Saunter: Using Self-Generated Rhythmic Cues to Enhance Gait in Parkinson's
Dementia Supplement
Role: PI

1880026-31-21 (PI: Earhart) 2021-2023
National Endowment for the Arts \$85,000
Graceful Gait: Community-Based Ballet to Improve Gait and Balance Among Older Women
Role:PI

R01 HD092444 (PIs: Gammon Earhart, Terry Ellis) 2018-2024
 NIH/NICHD \$3,161,841
 Walking and mHealth to Increase Participation in Parkinson Disease (WHIP-PD)
 Role: Co-PI

R34 (PI: Gammon Earhart, Kerri Rawson) 2021-2024
 NIH/NCCIH \$720,433
 Moving Mindfully: A MBSR-Centered Approach to Freezing in Parkinson Disease
 Role: Co-PI

Non-Governmental (current)

MJFF-019756 (PI: White) 2021-2023
 Michael J. Fox Foundation
 Multimodal Quantification of Innate and Adaptive Immune Responses in Parkinson Disease
 Role: Collaborator

Non-Governmental (past)

Foundation for Physical Therapy (PI: Gammon Earhart) 1999-2000
 Promotion of Doctoral Studies II \$15,000
 Role: Principal Investigator

St. Louis Chapter Equipment Grant (PI: Gammon Earhart) 2005
 American Parkinson Disease Association \$15,000
 Electromyographic Studies of Gait in Parkinson Disease
 Role: Principal Investigator

Marian Chace Foundation of the (PI: Madeleine Hackney) 2006
 American Dance Therapy Association \$2,600
 A study on the effects of Argentine tango as a form of partnered
 dance for those with Parkinson Disease and the Healthy Elderly
 Role: Co-Investigator

American Parkinson Disease Association (PI: Gammon Earhart) 2006-2008
 Can Dance Improve Functional Mobility in Parkinson Disease? \$50,000
 Role: Principal Investigator

Research Pilot Funds (PI: Gammon Earhart) 2008
 Washington University Program in Physical Therapy \$4,200
 Neuroplastic Adaptations Evoked via Resistance Training
 in Individuals with Parkinson Disease
 Role: Principal Investigator

Missouri Physical Therapy Association (PI: Gammon Earhart) 2008-2009
 Neuroplastic Mechanisms for Increased Strength Following \$5,000
 Resistance Training
 Role: Principal Investigator

St. Louis Chapter Equipment Grant (PI: Gammon Earhart) 2008
 American Parkinson Disease Association \$15,000
 Eye Movement Tracking in Parkinson Disease

Role: Principal Investigator

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| New Resource Proposal (PI: Gammon Earhart) McDonnell Center for Systems Neuroscience Studies of Oculomotor Dysfunction and Walking in Parkinson Disease Role: Principal Investigator | 2008 \$4,300 |
| Center for Programs at Washington University in St. Louis (PI: Gammon Earhart) Contact Improvisation and Parkinson's Disease Role: Principal Investigator | 2009-2010 \$6,500 |
| Missouri Physical Therapy Association (PI: Gammon Earhart) Contact Improvisation and Parkinson Disease: A Pilot Study Role: Principal Investigator | 2009-2010 \$5,000 |
| BJHF/ICTS Clinical and Translational Research Award (PI: Gammon Earhart) Role of Oculomotor Control in Parkinsonian Gait: Mechanisms and Treatment Role: Principal Investigator | 2009-2011 \$130,000 |
| Parkinson's Disease Foundation (PI: Gammon Earhart) PD4PD: Partnered Dance for Parkinson Disease Role: Principal Investigator | 2009-2011 \$150,000 |
| Davis Phinney Foundation (Co PIs: Lee Dibble, G. Earhart, Terry Ellis) Unveiling the Natural History of Quality of Life and Mobility Decline in Persons with Parkinson's Disease: A Prospective Cohort Study Role: Co-Principal Investigator | 2009-2012 \$322,000 |
| Parkinson's Disease Foundation (PI: Matt Ford, Univ of Alabama Birmingham) Unveiling the Natural History of Quality of Life and Mobility Decline in Persons with Parkinson's Disease: A Prospective Cohort Study Role: Co-Principal Investigator | 2009-2012 \$96,000 |
| Research Pilot Funds (PI: Gammon Earhart) Washington University Program in Physical Therapy Resting State Functional Connectivity in Parkinson Disease Role: Principal Investigator | 2010-2011 \$2,000 |
| Research Pilot Funds (PI: Gammon Earhart) Washington University Program in Physical Therapy Neuroimaging of Locomotor Adaptations to Rotating Treadmill Training Role: Principal Investigator | 2011-2012 \$2,000 |
| American Parkinson Disease Association (PI: Gammon Earhart) Community-Based Tango Classes for People with Parkinson Disease Role: Principal Investigator | 2011-2012 \$10,000 |
| 12-001 (PI: Gammon Earhart) Mallinckrodt Institute of Radiology Neurophysiologic Benefits of Tango Dancing versus Treadmill Training in Individuals with Parkinson Disease | 2011-2012 \$10,000 |

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| Role: Principal Investigator | |
| University Research Strategic Alliance (PI: Susan Stark) Fall Detection Device Role: Consultant | 2011-2012 \$25,000 |
| University Research Strategic Alliance (PI: Gammon Earhart) Freezing of Gait in Parkinson Disease: An Interdisciplinary Approach Role: Principal Investigator | 2011-2012 \$25,000 |
| American Parkinson Disease Association (PI: Gammon Earhart) Resting State Functional Connectivity MRI: Development of Neuroimaging Methods in Parkinson Disease Role: Principal Investigator | 2011-2013 \$20,000 |
| Neurology/Health South Central Nervous System (PI: Gammon Earhart) Recovery/Restoration Award Gaze Behavior and Locomotion in Parkinson Disease Role: Principal Investigator | 2012-2013 \$30,000 |
| Parkinson's Disease Fd. Conf. Award (PI: L Dibble, G Earhart, T Ellis, M Ford) International Symposium on Postural Instability and Falls in Parkinson Disease (Sydney, Australia) Role: Co-Principal Investigator | June 2013 \$16,500 |
| Research Pilot Funds (PI: Gammon Earhart) Washington University Program in Physical Therapy Dynamics, Adaptation, and Cognitive Influence Across Motor Systems in Parkinson Disease Role: Principal Investigator | 2013 \$2,000 |
| Neurology/Health South Central Nervous System (PI: G Earhart, M McNeely) Recovery/Restoration Award Telemedicine & Tango for Parkinson's Disease: In-Person vs. Virtual Dance Class Role: Co-Principal Investigator | 2015-2017 \$30,000 |
| Research Pilot Funds (PI: Gammon Earhart) Washington University Program in Physical Therapy Development Of A Clinical Tool To Predict Fall Risk In Alzheimer Disease Role: Principal Investigator | 2016 \$2,100 |
| Neurology/Health South Central Nervous System (PI: Gammon Earhart) Recovery/Restoration Award Self-Management of Gait, Speech and Dexterity in Parkinson Disease: Is There an App for That? Role: Principal Investigator | 2016-2018 \$90,000 |
| Research Pilot Funds (PI: Gammon Earhart) Washington University Program in Physical Therapy | 2019 \$1,400 |

Effect of a Custom Oral Device on Motor and Non-motor Symptoms in People with Parkinson Disease

Role: Principal Investigator

Barnes Jewish Hospital Foundation/ICTS Pilot Award (PI: Arye Nehorai) 2018-2019
Modeling and Tracking Freezing of Gait in Parkinson Disease \$50,000

Role: Co-Investigator

Grammy Museum Grant (Co-PIs: Elinor Harrison, Gammon Earhart) 2018-2019
The Use of Singing to Aid Gait in Parkinson's Disease \$11,514

Role: Co-Principal Investigator

Patents:

N/A

Clinical Title and Responsibilities:

2004-present Member, Movement Disorders Center
Washington University School of Medicine

Teaching Title and Responsibilities:

Current

Professional Clinical Doctorate (DPT) Curriculum, Washington University School of Medicine

2004-2020 PT605 Neuroscience, Course Master

2005-2021 PT613 Kinesiology II, Lecturer

2005-2023 PT654 Case Integration III, Advisor

2005-2023 PT650 Diagnosis and Evidence Analysis in Physical Therapy III, Advisor

2005-2020 PT629 Diagnosis & Mgmt of Neuromuscular Conditions I, Guest Lecturer

2011-2023 PT653 Health, Fitness and Prevention, Guest Lecturer

2017-2021 PT625 Neurology Medicine, Guest Lecturer

2021-present Module 4: Movement & Precision Health – Neuroscience

2021-present Module 5: Prevention, Diagnosis & Management of Movement Problems –
Neurology

2023-present Module 7: Practice & Movement – Neurodegenerative Disease

2024-present Module 8: Practice, Health & Equity - Clinician Scholar Educator Advisor

Movement Science PhD Curriculum, Washington University in St. Louis

2004-present L63 IPMS 5850 Program Seminar, Guest Lecturer

2004-present L63 IPMS 5610 Movement Science III-Biocontrol, Guest Lecturer

Division of Biology and Biomedical Sciences, Washington University School of Medicine

2006- 2019 BIO 5915 Teaching Practice in Biology and Biomedical Sciences, Mentor

Undergraduate, Washington University in St. Louis

2005-present BIO 181 Freshman Seminar in Biology, Guest Lecturer

2005-present BIO 200/500 Independent Study--Undergraduate Research in Biology, Mentor

2010-2019 U31 285 Introduction to Somatic Practices, Performing Arts Department,
Guest Lecturer

2016-present I50-175 Designing Creativity: Innovation Across Disciplines, Guest Lecturer

2017-present BIO 171 Neuroscience Seminar, Guest Lecturer

Past

My prior teaching responsibilities were in the areas of neuroscience, motor control, and motor learning. I taught at Washington University, Pacific University, and Oregon Health & Science University.

Trainee Advisement

Postdoctoral Fellows

- 2010-2014 Kristen Pickett, PhD
PhD in Kinesiology earned in May 2010
2012-2015 NIH Loan Repayment Program
2011-2012 NIIH Postdoctoral Trainee, T32HD007434
2012-2013 Parkinson Study Group Mentored Clinical Research Award
Currently: Associate Professor, University of Wisconsin-Madison
- 2015-2016 Gustavo Christofolletti, PT, MS, PhD
PhD in Neuroscience earned in 2010
Currently: Adjunct Professor Federal University of Mato Grosso do Sul, Campo Grand, Brazil
- 2019-2023 Elinor Harrison, PhD
PhD in Movement Science earned in December 2018
2021 National Endowment for the Arts Grant
Currently: Lecturer in Dance, Washington University in St. Louis
- 2022-present Sidney Baudendistel, PhD
PhD in Rehabilitation Science earned in December 2021
2022-2024 NIH Postdoctoral Trainee, T32HD007434

Graduate Students

- 2004-2008 Minna Hong, PT, PhD
Movement Science Ph.D. earned in May 2008
2005-2008 Promotion of Doctoral Studies Awards, Foundation for Physical Therapy
2007-2008 NIH NRSA Predoctoral Fellowship F31 NS566532
- 2005-2009 Madeleine Hackney, PhD
Movement Science Ph.D. earned in May 2009
2006-2007 Marian Chace Foundation Grant
2007 Washington University Graduate Student Research Symposium 2nd prize
2008 Society for Neuroscience Chapters Graduate Student Travel Award
2009 European Psychological Society Student Travel Award
Currently: Research Health Scientist, Atlanta VA Medical Center and Associate Professor of Gerontology at Emory University
- 2006-2010 Michael Falvo, PhD
Movement Science Ph.D. earned in May 2010
2008 National Strength and Conditioning Association Doctoral Student Research Grant
Currently: Research Health Scientist, VA New Jersey War Related Illness and Injury Study Center and Associate Professor at Rutgers University

- 2008-2012 Corey Lohnes, PhD, MS
 Movement Science Ph.D. earned in May 2012
 2009 World Federation of Neurology Travel Grant
 Technology Transfer Trainee at Washington University in St. Louis, 2012
 Currently: Senior Client Partner at Grant Cooper and Associates Executive Search Firm, Clayton, MO
- 2008-2012 Marie McNeely, PhD
 Neuroscience Ph.D. earned in May 2012
 2011-2012 NIH NRSA Predoctoral Fellowship F31 NS071639
 Nominee, Lindau Nobel Laureate Meeting, 2011
 Currently: Co-Founder, People Behind the Science and Unfold Productions
- 2009-2013 Dan Peterson, PhD, MSCI
 Movement Science PhD and Master of Science in Clinical Investigation earned in August 2013
 2010-2013 NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
 2012 NIH-sponsored Training Course in fMRI, University of Michigan
 Currently: Associate Professor, Arizona State University
- 2009-2011 Abi Leddy, DPT, MSCI
 NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
 DPT Class of 2011
 Master of Science in Clinical Investigation earned in May 2011
 2010 Platform Presenter Representing Washington University at the National Predoctoral Clinical Research Training Program Meeting
 2011 Mary McMillan Scholarship from the American Physical Therapy Association
 Currently: Physical Therapist
- 2009-2012 Laura Golden, OTD
 OTD Class of 2012, completed her dissertation work, co-mentored by Dr. Erin Foster
- 2010-2012 Ryan Duncan, PT, DPT
 Post-professional DPT Class of 2012, completed his capstone research
 2012 Loraine F. Lake Award
 2013-2018 NIH Loan Repayment Program
 2016-2019 K12 CORRT Scholar
 Currently: Associate Professor of Physical Therapy and Neurology, Washington University in St. Louis
- 2011-2013 April Williams
 NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
 DPT Class of 2013
 Master of Science in Clinical Investigation earned in May 2012
 Currently: Assistant Professor at Louisiana State University
- 2012-2016 Samuel Nemanich, PhD
 Movement Science Ph.D. earned in 2016

2013-2014 Parkinson's and Movement Disorder Foundation Grant
2013 Gordon Research Conference Travel Award
2014-2016 NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
2014 Parkinson's Disease Foundation Travel Award
Currently: Assistant Professor, Marquette University

2014-2018 Elinor Harrison, PhD
Movement Science Ph.D. earned in 2018
2015 Tom Thach Award – WUSTL Neuroscience Retreat
2016 Graduate Professional Council Travel Award
2017 Three Minute Thesis Winner
2018 Grammy Museum Grant
Currently: Lecturer in Dance, Washington University in St. Louis

2014-2018 Peter Myers, PhD
Movement Science Ph.D. earned in 2018
2016 World Parkinson Congress Travel Award
Currently: Program Manager, Office of Postdoctoral Affairs, Washington University in St. Louis

2015-2017 Katie Seidler, DPT, MSCI, MMCi
NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
DPT Class of 2017
Master of Science in Clinical Investigation earned in May 2016
Currently: Strategy Manager, Cone Health

2017-2020 Adam Horin, MA, PhD
Movement Science Ph.D. earned in 2020
2017 NSF Graduate Fellowship Honorable Mention
2019 Society for Neuroscience Trainee Professional Development Award
Currently: Clinical Data Scientist – FDA, DRT Strategies

2018-2022 David May, DPT, PhD
Movement Science Ph.D. earned in 2022
Currently: Field Clinical Engineer (Neuromodulation), Boston Scientific

2020-2024 Lauren Tueth, DPT
Movement Science Ph.D. earned in 2024
Currently: Staff Scientist, Washington University in St. Louis

2021-present Allison Haussler
4th year Movement Science Ph.D. student

Undergraduate Students

2005-2006 Elizabeth Stevens, Biology Major, Class of 2007, completed Bio 500/500W honors thesis project, Recipient of 2007 Stalker Prize in Biology

2006 John O'Keefe, Biology Major, Class of 2007, completed Bio 500/500W

Svetlana Kantorovich, Biology Major, Class of 2007, completed Bio 500/500W

2007 Autumn Brockman, Biology Major, Class of 2008, completed Bio500

Ryan Choi, Biology Major, Class of 2009, completed Bio500

- 2008-2011 John Scott, Biology Major, Class of 2011, completed Bio 200 and Bio 500 thesis project
- 2010-2012 Kelly Hill, Biomedical Engineering Major, Class of 2012, completed Bio 200 and Bio 500
2011 Mallinckrodt Institute of Radiology Summer Research Fellowship
2011 Washington University Undergraduate Research Conference Travel Award
- 2011-2014 Laura Pilgram, Biology Major, Class of 2014, Summer Research Experience 2011, completed Bio 200, Bio 500/500W honors thesis project
- 2012-2014 Ashley Ederle, Anthropology/Global Health Major, Class of 2015, completed Bio 200
- 2014-2016 Marina Mai, Anthropology/Dance, Class of 2016
- 2015-2016 Albert Mo, Biology, Class of 2016
- 2017-2019 Pooja Belur, Cognitive Neuroscience, Class of 2019
- 2017-2019 Diana Hsiao, Biology, Class of 2019
- 2020 Kalysta Lee, Biology, Class of 2022
- 2020-2022 Forrest Whiting, Performing Arts, MARC u-STAR Scholar, Class of 2022
- 2021-2023 Raina Foreman, Biology, Class of 2023
- 2023-present Liza Birov, Philosophy Neuroscience Psychology, Class of 2026
- 2024-present Rhea Wagh, Philosophy Neuroscience Psychology, Class of 2027

Summer Students

- 2006 Rachel Katz, Communications/Religion Major, Class of 2008, Northwestern University, Center for Aging Summer Research Experience
- 2006 Mandy Wong, DPT Class of 2007, Washington University in St. Louis, NIH TL1 Predoctoral Clinical Research Summer, Fellowship 2006, TL1RR024995
- 2008 Heidi Schmidt, Biology Major, Class of 2009, Washington University in St. Louis, Summer Research Experience
- 2009 Jennifer Sylvester, DPT Class of 2011, Washington University in St. Louis, NIH TL1 Predoctoral Clinical Research Summer, Fellowship, TL1RR024995
- 2016 Adam Horin, BS (Neurobiology/Physiology, Purdue University), Master of Arts in Audio Technology, American University, Summer Research Intern

- 2018 Caleb Longley, Exercise Science Major, Class of 2021, Truman State University, ASPIRE Summer Intern
- 2018 Olivia Fehrmann, Biology Major, Class of 2021, Washington University in St. Louis, Center for Aging Summer Research Experience
- 2019 Tishiya Carey, Global Cultural Studies Major, Class of 2021, Washington University in St. Louis, ASPIRE Summer Intern
- 2019 Zainab Ali, Public Health Major, Class of 2021, St. Louis University, Center for Aging Summer Research Experience
- 2020 Kyla Kikkawa, Beyond Boundaries Scholar, Class of 2023, Washington University in St. Louis, Center for Aging Summer Research Experience
- 2024 Leah Noble, Public Health Major, Class of 2025, Lindenwood University, Center for Aging Summer Research Experience
- 2024 Mar Agelet de Saracibar Ariet, Biochemisty & Molecular Biology Major, Truman Sate University, ASPIRE Summer Intern

Bibliography:

Peer-Reviewed Articles

1. **Earhart, G.M.** and Stein, P.S.G. (2000) Scratch-swim hybrids in the spinal turtle: blending of rostral scratch and forward swim. *J Neurophysiol*, 83: 156-165.
2. **Earhart, G.M.** and Bastian, A.J. (2000) Form switching during human locomotion: traversing wedges in a single step. *J Neurophysiol*, 84: 605-615.
3. **Earhart, G.M.** and Stein, P.S.G. (2000) Step, swim, and scratch motor patterns in the turtle. *J Neurophysiol*, 84: 2181-2190.
4. **Earhart, G.M.** and Bastian, A.J. (2001) Selection and coordination of human locomotor forms following cerebellar damage. *J Neurophysiol*, 85: 759-769.
5. **Earhart, G.M.**, Melvill Jones, G., Horak, F.B., Block, E.W., Weber, K.D., and Fletcher, W.A. (2001) Forward vs. backward walking: transfer of podokinetic adaptation. *J Neurophysiol*, 86: 1666-1670.
6. Horak, F.B., **Earhart, G.M.**, and Dietz, V. (2001) Postural responses to combinations of head and body displacements: vestibular-somatosensory interactions. *Exp Brain Res*, 141(3): 410-414.
7. **Earhart, G.M.**, Melvill Jones, G., Horak, F.B., Block, E.W., Weber, K.D., Fletcher, W.A. (2002) Podokinetic after-rotation following unilateral and bilateral podokinetic stimulation. *J Neurophysiol*, 87(2): 1138-1141.
8. **Earhart, G.M.**, Melvill Jones, G., Horak, F.B., Block, E.W., Weber, K.D., and Fletcher, W.A. (2002) Transfer of podokinetic adaptation from stepping to hopping. *J Neurophysiol*, 87(2): 1142-1144.
9. **Earhart, G.M.**, Fletcher, W.A., Horak, F.B., Block, E.W., Weber, K.D., Suchowersky, O., Melvill Jones, G. (2002) Does the cerebellum play a role in podokinetic adaptation? *Exp Brain Res*, 146(4): 538-542.
10. **Earhart, G.M.**, Horak, F.B., Melvill Jones, G., Block, E.W., Weber, K.D., Suchowersky, O., and Fletcher, W.A. (2002) Is the cerebellum important for podokinetic adaptation? In *The Cerebellum: Recent Advances in Cerebellar Research*, *Annals NY Acad Sci*, 978: 511-512.

11. **Earhart, G.M.**, and Horak, F.B. (2003) Gaining insight by going in circles: use of the rotating circular treadmill to study the neural control of human walking. *IEEE Engineering in Medicine and Biology Magazine*, 22(2): 32-36.
12. **Earhart, G.M.**, Sibley, K.M., and Horak F.B. (2004) Effects of bilateral vestibular loss on podokinetic after-rotation. *Exp Brain Res*, 155(2): 251-256.
13. **Earhart, G.M.** and Horak, F.B. (2004) Effects of cadence on the acquisition and expression of podokinetic after-rotation. *Hum Mov Sci*, 23(6): 823-836.
14. Stevens, E.S. and **Earhart, G.M.** (2006) Changes in perception of active but not passive turning following stepping on the rotating treadmill. *Exp Brain Res*, 171(3): 340-346.
15. **Earhart, G.M.**, Hong, M. (2006) Kinematics of podokinetic after-rotation: similarities to voluntary turning and potential clinical implications. *Brain Res Bull*, 70(1): 15-21.
16. **Earhart, G.M.** (2006) Walking and running on the circular treadmill: transition speed and podokinetic aftereffects. *J Mot Behav*, 38(5): 349-356.
17. **Earhart, G.M.** and Lang, C.E. (2006) Postdoctoral fellowships: a critical step beyond the Ph.D. in the training of physical therapists. *J Phys Ther Education*, 20(2): 9-11.
18. Hong, M., Perlmutter, J.S., **Earhart, G.M.** (2007) Podokinetic after-rotation in Parkinson disease. *Brain Res*, 1128(1): 99-106.
19. **Earhart, G.M.**, Stevens, E.S., Perlmutter, J.S., and Hong, M. (2007) Perception of active and passive turning in Parkinson disease. *Neurorehabil Neural Repair*, 21(2): 116-122.
20. Wong, C.M., Hong, M., and **Earhart, G.M.** (2007) Limited transfer of podokinetic after-rotation from kneeling to standing. *Somatosens Mot Res*, 24(1-2): 35-40.
21. Hong, M., Perlmutter, J.S., **Earhart, G.M.** (2007) Enhancement of rigidity in Parkinson's disease with activation. *Mov Disord*, 22(8): 1164-1168.
22. Hackney, M.E., Kantorovich S., **Earhart, G.M.** (2007) A study on the effects of Argentine tango as a form of partnered dance for those with Parkinson disease and healthy elderly. *Am J Dance Ther*, 29(2): 109-127.
23. **Earhart, G.M.**, Hong, M., Tabbal, S.D., Perlmutter, J.S. (2007) Effects of thalamic stimulation frequency on intention and postural tremor. *Exp Neurol*, 208(2): 257-263. PMC2203380
24. Hackney, M.E., Kantorovich S., Levin, R., **Earhart, G.M.** (2007) Effects of tango on functional mobility in Parkinson's disease: a preliminary study. *J Neurol Phys Ther*, 31(4): 173-179.
25. Falvo, M.J., Schilling, B.K., **Earhart, G.M.** (2008) Parkinson's disease and resistive exercise: rationale, review, and recommendations. *Mov Disord*, 23(1): 1-11.
26. Hong, M., **Earhart, G.M.** (2008) Rotating treadmill training reduces freezing in Parkinson disease: preliminary observations. *Parkinsonism Relat Disord*, 14(4): 359-363. PMC2446473
27. Hackney, M.E., **Earhart, G.M.** (2008) Tai Chi improves balance and mobility in people with Parkinson disease. *Gait Posture*, 28(3): 456-460. PMC2552999
28. Falvo, M.J., Horak, F.B., **Earhart, G.M.** (2008) Podokinetic after-rotation in a simulated reduced gravity environment. *Somatosens Mot Res*, 25(3): 188-193. PMC2672566
29. Hong, M., Perlmutter, J.S., **Earhart, G.M.** (2009) A kinematic and electromyographic analysis of turning in people with Parkinson disease. *Neurorehabil Neural Repair*, 23(2): 166-176. PMC2649739
30. Hackney, M.E., **Earhart, G.M.** (2009) Backward walking in Parkinson's disease. *Mov Disord*, 24(2): 218-223. PMC2945225
31. **Earhart, G.M.**, Clark, B.R., Tabbal, S.D., Perlmutter, J.S. (2009) Gait and balance in essential tremor: variable effects of bilateral thalamic stimulation. *Mov Disord*, 24(3): 386-391. PMC2882155

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33. Falvo, M.J., **Earhart, G.M.** (2009) Six-minute walk distance in individuals with Parkinson disease: a hierarchical regression model. *Arch Phys Med Rehabil*, 90(6): 1004-1008.
34. **Earhart, G.M.** (2009) Dance as therapy for individuals with Parkinson disease. *Eur J Phys Med Rehabil*, 45(2): 231-238. PMC2780534
35. Hackney, M.E., **Earhart, G.M.** (2009) Short duration, intensive tango dancing for Parkinson disease: an uncontrolled pilot study. *Complement Ther Med*, 17(4): 203-207. PMC2731655
36. Hackney, M.E., **Earhart, G.M.** (2009) Health-related quality of life and alternative forms of exercise in Parkinson disease. *Parkinsonism Relat Disord*, 15(9): 644-648. PMC2783812
37. Falvo, M.J., Schmidt, H.E., Horak, F.B., **Earhart, G.M.** (2009) Influence of visual and haptic cues on podokinetic after-rotation. *J Mot Behav*, 41(6):553-560. PMC19892659
38. Falvo, M.J., **Earhart, G.M.** (2009) Reference equation for the 6-minute walk in individuals with Parkinson disease. *J Rehabil Res Dev*, 46(9): 1121-1126. PMC2867249
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40. Hackney, M.E., **Earhart, G.M.** (2010) Effects of dance on balance and gait in severe Parkinson disease: a case study. *Disabil Rehab*, 32(8): 679-684. PMC2837534
41. Hong, M., **Earhart, G.M.** (2010) Effects of medication on turning deficits in people with Parkinson's disease. *J Neurol Phys Ther*, 34(1): 11-16. PMC2886796
42. Hackney, M.E., **Earhart, G.M.** (2010) Social partnered dance for people with serious and persistent mental illness: a pilot study. *J Nerv Ment Dis*, 198(1):76-78.
43. Hackney, M.E., **Earhart, G.M.** (2010) Recommendations for implementing partnered tango classes for persons with Parkinson disease. *Amer J Dance Ther*, 32(1): 41.
44. McNeely, M.E., **Earhart, G.M.** (2010) Evidence for limb-independent control of locomotor trajectory. *Exp Brain Res*, 201(3): 613-618. PMC2840075
45. Lohnes C.A., **Earhart G.M.** (2010) External validation of abbreviated versions of the activities-specific balance confidence scale in Parkinson's disease. *Mov Disord*, 25(4): 485-489. PMC2873031
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47. **Earhart, G.M.**, Henckens, J.M., Carlson-Kuhta, P., Horak, F.B. (2010) Influence of vision on adaptive postural responses following standing on an incline. *Exp Brain Res*, 203(1): 221-226. PMC2872556
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54. Duncan, R.P., Leddy, A.L., **Earhart, G.M.** (2011) Management of balance and gait in older individuals with Parkinson disease. *Aging Health*, 7(2): 205-218.
55. Lohnes, C.A., **Earhart, G.M.** (2011) The impact of attentional, auditory, and combined cues on walking during single and cognitive dual tasks in Parkinson disease. *Gait Posture*, 33(3): 478-483.
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58. Lohnes, C.A., **Earhart, G.M.** (2011) Saccadic eye movements are related to turning performance in Parkinson disease. *J Parkinsons Dis*, 1(1):109-118. PMC3247902
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66. Duncan, R.P., **Earhart, G.M.** (2012) Randomized controlled trial of community-based dancing to modify disease progression in Parkinson disease. *Neurorehab Neural Repair*, 26(2):132-143.
67. Lohnes, C.A., **Earhart, G.M.** (2012) Movement orientation switching with the eyes and lower limb in Parkinson disease. *Parkinsonism Relat Disord*, 18(5):462-468. PMC3354036

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69. Cavanaugh, J.T., Ellis, T.D., **Earhart, G.M.**, Ford, M.P., Foreman, K.B., Dibble, L.E. (2012) Capturing ambulatory activity decline in Parkinson's disease. *J Neurol Phys Ther*, 36(2):51-57. PMC3934648
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71. Lohnes, C.A., **Earhart, G.M.** (2012) Effect of subthalamic deep brain stimulation on turning kinematics and related saccadic eye movements in Parkinson disease. *Exp Neurol*, 236(2):389-394. PMC3392464
72. **Earhart, G.M.**, Williams, A.J. (2012) Treadmill training for individuals with Parkinson disease. *Phys Ther*, 92(7): 893-897. PMC3386513
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81. Pickett, K.A., Duncan, R.P., Hoekel, J., Marshall, B., Hershey, T., **Earhart, G.M.** and the Washington University Wolfram Study Group. (2012) Early presentation of gait impairment in Wolfram Syndrome. *Orphanet J Rare Dis*, 7:92. PMC3551701
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16. **Earhart, G.M.**, Stevens, E., Wang, S. and Hong, M. (2006) Changes in self-perception of turning following rotating treadmill stimulation. APTA Combined Sections Meeting, San Diego, CA.
17. Hong, M., **Earhart, G.M.**, Damiano, D.L. and Perlmutter J.S. (2006) Decreased arm swing at fast walking speed in mild Parkinson Disease (PD). APTA Combined Sections Meeting, San Diego, CA.
18. Melvill Jones, G., Fletcher, W.A., Weber, K.D., Block, E.W., **Earhart, G.M.** and Horak, F.B. (2006) Integration of angular and linear components of foot movement during locomotion round a curved trajectory. Canadian Physiological Society, Banff, Alberta, Canada.
19. Melvill Jones, G., Fletcher, W.A., Weber, K.D., Block, E.W., **Earhart, G.M.**, and Horak, F.B. (2006) Modulation of intended trajectory curvature by unperceived alteration of angular and linear components of the locomotor cycle. Canadian Physiological Society, Banff, Alberta, Canada.
20. Hong, M., Perlmutter, J.S., and **Earhart, G.M.** (2006) The rotating treadmill: a new tool for gait rehabilitation. World Parkinson Congress, Washington, D.C.
21. Stevens, E.S., Perlmutter, J.S., and **Earhart, G.M.** (2006) Self-perception of active and passive turning in Parkinson disease. World Parkinson Congress, Washington, D.C.
22. Melvill Jones, G., Fletcher, W.A., Block E.W., Weber, K.D., Horak, F.B., and **Earhart, G.M.** (2006) A locomotor system for controlling spatial orientation. Soc Neurosci, Atlanta, GA.
23. Hong, M., Perlmutter, J.S., and **Earhart, G.M.** (2006) Evidence for bilateral pathways mediating rigidity in Parkinson disease. Mov Dis Soc, Kyoto, Japan.
24. Hong, M., Perlmutter, J.S., and **Earhart, G.M.** (2007) Recommendations for the assessment of bradykinesia in Parkinson disease. APTA Combined Sections Meeting, Boston, MA.
25. Hong, M., Wong, C.M., and **Earhart, G.M.** (2007) Is the hip joint a major player in locomotor trajectory adaptation? ISPGR XVIII Conference, Burlington, VT.
26. Hackney, M.E., **Earhart, G.M.** (2007) The effects of argentine tango on functional mobility in people with Parkinson disease. ISPGR XVIII Conference, Burlington, VT.
27. Hong, M., Perlmutter, J.S., **Earhart G.M.** (2007) Intention and postural components of essential tremor are dependent on thalamic stimulation frequency. Soc Neurosci, San Diego, CA.
28. Choi R., Funk J., Hackney M.E., **Earhart G.M.** (2008) Evaluation of multi-directional reach in Parkinson disease. APTA Combined Sections Meeting, Nashville, TN.

29. **Earhart G.M.**, Funk J., Mosiman C., Stringer, K. Hong, M. (2008) Effects of medication on turning performance in individuals with Parkinson disease. Movement Disorders Society, Chicago, IL.
30. Hackney, M.E., **Earhart, G.M.** (2008) Backward walking in Parkinson disease. Movement Disorders Society, Chicago, IL.
31. Hackney, M.E., **Earhart, G.M.** (2008) The effects of American Ballroom and Argentine Tango on motor control and locomotion in those with Parkinson Disease. Soc Neurosci, Washington, D.C.
32. Falvo, M.J., **Earhart, G.M.** (2008) Six-minute walk distance in individuals with Parkinson disease: A Regression Model, American Physiological Society, Hilton Head, SC.
33. **Earhart, G.M.**, Clark, B.R. (2009) Functional mobility in essential tremor: variable effects of bilateral thalamic stimulation. APTA Combined Sections Meeting, Las Vegas, NV.
34. Hackney, M.E., **Earhart, G.M.** (2009) Argentine tango dance may improve health related quality of life in those with Parkinson disease, Luther College Black History Conference, Decorah, IA.
35. Lohnes, C.A., **Earhart, G.M.** (2009) Effects of auditory, attentional, and combined cueing strategies on gait during single and dual cognitive tasks in Parkinson's disease, WFN World Congress on Parkinson's Disease and Related Disorders, Miami Beach, FL.
36. **Earhart, G.M.** (2009) Dance as an exercise intervention for people with Parkinson disease. SPRING (Special Parkinson's Research Interest Group): Developing the disease-modifying possibilities of exercise for Parkinson's, London, UK.
37. Hackney, M.E., **Earhart, G.M.** (2010) Effects of Argentine Tango on functional mobility and gait in Parkinson disease: a comparison of individuals with and without freezing of gait and previous fall history. Movement Disorder Society Annual Meeting, Buenos Aires, Argentina.
38. Foreman, K.B., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Ford, M., Dibble, L.E. (2010) Accumulation of co-morbidities worsens functional mobility and motor deficits in persons with PD. 24th Annual Parkinson Study Group Symposium, Irving, Texas. Movement Disorders, 25(6), VII.
39. Sylvester J.L., Marchant D., **Earhart G.M.** (2010) Effects of short duration, high dose contact improvisation dance on Parkinson disease. Missouri Physical Therapy Association Meeting, St. Louis, MO.
40. Duncan, R.P., **Earhart, G.M.** (2010) Participation and Parkinson disease. Missouri Physical Therapy Association Meeting, St. Louis, MO.
41. Leddy, A.L., Crowner, B.E., **Earhart, G.M.** (2010) Functional Gait Assessment and Balance Evaluation System Test: reliability, validity, and fall risk assessment for individuals with Parkinson disease. Missouri Physical Therapy Association Meeting, St. Louis, MO.
42. Duncan, R.P., Rotello, J.M.M., **Earhart, G.M.** (2010) Dance as exercise: effects of a community-based tango program for people with Parkinson disease. Parkinson's Disease Foundation: Parkinson Disease & Exercise Conference, Newark, NJ.
43. Duncan, R.P., **Earhart, G.M.** (2010) Relationships between participation, quality of life and mobility in individuals with Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, Mov Disord; 25(Suppl 3): S705.
44. Rotello, J.M.M., **Earhart, G.M.** (2010) Activity levels in Parkinson disease: self-assessment and predictive factors. World Parkinson Congress, Glasgow, Scotland, UK, Mov Disord; 25(Suppl 3): S705.
45. **Earhart, G.M.**, Cavanaugh, J.T., Ellis, T., Ford, M.P., Foreman, K.B., Dibble, L.E. (2010) The 9 hole peg test: what does it really measure in people with Parkinson disease? World Parkinson Congress, Glasgow, Scotland, UK, Mov Disord; 25(Suppl 3): S650-S651.

46. **Earhart, G.M.**, Cavanaugh, J.T., Ellis, T., Ford, M.P., Foreman, K.B., Dibble, L.E. (2010) What combination of tests best identified fallers in people with Parkinson disease? World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S650.
47. Ellis, T., Cavanaugh, J.T., **Earhart, G.M.**, Ford, M.P., Foreman, K.B., Dibble, L.E. (2010) Which UPDRS motor / mobility items best predict quality of life in people with Parkinson's disease? World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S687.
48. Ellis, T., Cavanaugh, J.T., **Earhart, G.M.**, Ford, M.P., Foreman, K.B., Dibble, L.E. (2010) Typical physical activity levels in people with Parkinson disease: effect of disease state, gender and age. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S686.
49. McNeely, M.E., Tabbal, S.D., Campbell, M.C., Karimi, M., Hartlein, J.M., Lugar, H.M., Hershey, T., Revilla, F.J., Perlmutter, J.S., **Earhart, G.M.** (2010) Effects of dorsal versus ventral subthalamic nucleus deep brain stimulation on gait in Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S672.
50. **Earhart, G.M.**, Rotello, J.M.M., Duncan, R.P. (2010) Short-term effects of a community-based tango program on motor and non-motor symptoms, activities of daily living, and motor complications in PD. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S697-S698.
51. Dibble L.E., Cavanaugh J.T., **Earhart G.M.**, Ellis T., Ford M.P., Foreman K.B. (2010) Accumulation of comorbidities worsens functional mobility, motor deficits, and quality of life in persons with Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S648.
52. Dibble L.E., Cavanaugh J.T., **Earhart G.M.**, Ellis T., Ford M.P., Foreman K.B. (2010) Does peripheral neuropathy worsen balance performance and functional mobility in persons with Parkinson disease? World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S647-S648.
53. Ford, M.P., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Foreman, K.B., Dibble, L.E. (2010) Balance, gait speed flexibility, and physical activity predict walking capacity in people with Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S703-S704.
54. Lohnes, C.A., **Earhart, G.M.** (2010) Switching directions of the eyes and leg: relationship to freezing in Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S642-S643.
55. Peterson, D.S., Plotnik, M., Hausdorff, J.M., **Earhart, G.M.** (2010) Effects of turning and backward walking on bilateral coordination in individuals with Parkinson disease. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S644.
56. Leddy A.L., Crouner, B.E., **Earhart, G.M.** (2010) Balance assessment in Parkinson disease: the BESTest and MiniBESTest. World Parkinson Congress, Glasgow, Scotland, UK, *Mov Disord*; 25(Suppl 3): S684.
57. Ellis, T., Cavanaugh, J.T., **Earhart, G.M.**, Ford, M.P., Foreman B.K., Dibble, L.E. (2010) Gender impacts physical activity levels in people with Parkinson disease. Seventh Annual Interdisciplinary Women's Health Research Symposium; *Journal of Women's Health*; 19(10).
58. Duncan, R.P., Rotello, J.M.M., **Earhart, G.M.** (2011) Community-based dance for people with Parkinson disease. APTA Combined Sections Meeting, New Orleans, LA.
59. Leddy, A.L., Crouner, B.E., **Earhart, G.M.** (2011) Comparative analysis of balance measures in Parkinson disease. APTA Combined Sections Meeting, New Orleans, LA.
60. Ellis, T., Cavanaugh, J.T., **Earhart, G.M.**, Ford, M.P., Foreman, K.B., Dibble, L.E. (2011) Do tests of physical mobility predict health related quality of life in people with Parkinson disease? APTA Combined Sections Meeting, New Orleans, LA.

61. Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Ford, M.P., Foreman, K.B., Dibble, L.E. (2011) Physical activity characteristics of fallers and non-fallers with Parkinson disease. APTA Combined Sections Meeting, New Orleans, LA.
62. McNeely, M.E., **Earhart, G.M.** (2011) The effects of levodopa on turning in people with Parkinson disease with and without freezing of gait. Society for Neuroscience, Washington D.C.
63. Hill, K.K., Campbell, M.C., McNeely, M.E., Hershey, T., Tabbal, S.D., Karimi, M., Flores, H.P., Hartlein, J.M., Lugar, H.M., Revilla, F.J., Videen, T.O., Perlmuter, J.S., **Earhart, G.M.** (2011) Correlations between regional cerebral blood flow responses to dorsal and ventral subthalamic nucleus deep brain stimulation and gait and balance responses in Parkinson disease. Society for Neuroscience, Washington D.C.
64. Lohnes, C.A., **Earhart, G.M.** (2011) Voluntary saccade function during turning in Parkinson disease. Society for Neuroscience, Washington D.C.
65. Peterson, D.S., Pickett, K.A., **Earhart, G.M.** (2011) Cortical and subcortical brain activity during different imagined gait tasks. Society for Neuroscience, Washington D.C.
66. Pickett, K.A., Peterson, D.S., Perlmuter, J.S., Snyder, A.Z., **Earhart, G.M.** (2011) BOLD signal changes following rotating treadmill training. Society for Neuroscience, Washington D.C.
67. Bondurant, A., Pickett, K., Nguyen, C., Grafeman, S., Lugar, H., Paciorkowski, A., Marshall, B., White, N., Wasson, J., **Earhart, G.M.**, Permutt, A., Hershey, T. (2011) Neuropsychological and motor function in Wolfram syndrome. Diabetes Day, St. Louis, MO.
68. **Earhart, G.M.**, Duncan, R.P, Leddy, A.L., Cavanaugh, J.T., Ellis, T., Ford, M.P., Foreman, K.B., Dibble, L.E. (2012) Prospective identification of fallers with Parkinson disease using the BESTest and MiniBESTest. Combined Sections Meeting, Chicago, IL.
69. Duncan, R.P., **Earhart, G.M.** (2012) Four square step test performance in individuals with Parkinson disease. Combined Sections Meeting, Chicago, IL.
70. Williams, A.J., **Earhart, G.M.** (2012) Gait coordination in Parkinson disease: effects of step length and cadence manipulations. Combined Sections Meeting, Chicago, IL.
71. Ellis, T., Cavanaugh, J.T., **Earhart, G.M.**, Ford, M.P., Foreman, K.B., Dibble, L.E. (2012) Association between low activity levels and falling in women and men with Parkinson disease. BIRCWH Scholars Meeting, Bethesda, MD.
72. Duncan, R.P, **Earhart, G.M.** (2012) Community-based dance for people with Parkinson disease: an 18-month intervention study, ISPGR, Trondheim, Norway.
73. **Earhart, G.M.**, Duncan, R.P. (2012) Should one measure balance or gait to best predict falls among people with Parkinson disease? ISPGR, Trondheim, Norway.
74. Pickett, K.A., Duncan, R.P. Permutt, A., Hershey, T. **Earhart G.M.** (2012) Gait and balance impairment in Wolfram syndrome. ISPGR, Trondheim, Norway.
75. Peterson, D.S., Pickett, K.A., **Earhart, G.M.** (2012) Cortical and subcortical brain activity during imagined gait tasks across age. ISPGR, Trondheim, Norway.
76. Ford, M.P., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Foreman, K.B., Husingh, C., McGwin G., Dibble, L.E. (2012) Methodological challenges in a prospective longitudinal cohort study of persons with PD: does a study of exercise behavior naturally bias the study sample? Movement Disorder Society Annual Meeting, Dublin, Ireland.
77. Dibble, L.E., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Ford, M.P., Foreman, K.B. Ambulatory activity monitoring: Capturing participation-level decline in Parkinson disease. (2012) Movement Disorder Society Annual Meeting, Dublin, Ireland.
78. Ford, M.P., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T., Foreman, K.B., Husingh, C., McGwin G., Dibble, L.E. (2012) Charting the progression of disability Parkinson disease (CHOP PD): changes in disability over 12 months. Movement Disorder Society Annual Meeting, Dublin, Ireland.

79. Duncan, R.P., Leddy, A., Cavanaugh, J., Dibble, L., Ellis, T., Ford, M., Foreman, K.B., **Earhart, G.M.** (2013) Predicting falls in Parkinson disease: is the Brief-BESTest as good as the Mini-BESTest?”, APTA Combined Sections Meeting, San Diego, CA.
80. Williams, A.J., Peterson, D.S., Ionno, M., **Earhart, G.M.** (2013) Upper Extremity Freezing and Dyscoordination in Parkinson Disease: Effects of Amplitude and Cadence Manipulations. Missouri Physical Therapy Association, St. Louis, MO.
81. Duncan, R.P., Leddy, A.L., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2013) Prospective measurement of balance decline in people with Parkinson disease: An exploratory analysis. Missouri Physical Therapy Association, St. Louis, MO.
82. Duncan, R.P., Leddy, A.L., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2013) Predictors of changes in balance over 6 and 12 months in Parkinson disease: An exploratory analysis. Movement Disorder Society Annual Meeting, Sydney, Australia.
83. Duncan, R.P., Leddy, A.L., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2013) Prospective measurement of balance decline in people with Parkinson disease. Movement Disorder Society Annual Meeting, Sydney, Australia.
84. Nemanich, S.T., Duncan, R.P., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2013) Predictors of walking speeds and differences between preferred and fast as possible walking speeds in people with Parkinson disease. Movement Disorder Society Annual Meeting, Sydney, Australia.
85. **Earhart, G.M.** (2013) Rehabilitation Update: Parkinson Disease. International Society of Posture & Gait Research, Akita, Japan.
86. Peterson, D.S., Pickett, K.A., **Earhart, G.M.** (2013) Supraspinal Control of Locomotion in Freezers and Non-freezers with Parkinson Disease. International Society of Posture & Gait Research, Akita, Japan.
87. Pickett, K.A., Peterson, D.S., Koller, J., Campbell, M.C., Snyder, A.Z., Perlmutter, J.S., **Earhart G.M.** (2013) Resting state functional connectivity in the motor network in individuals with Parkinson disease. International Society of Posture & Gait Research, Akita, Japan.
88. Hong, M., **Earhart, G.M.**, Kiratli, J. (2013) Outcomes of short-term participation in wheelchair dancing for individuals with spinal cord injuries: a pilot study. Academy of Spinal Cord Injury Professionals, Las Vegas, NV.
89. Nemanich, S.T., **Earhart, G.M.** (2013) Saccadic eye movements during natural viewing of human locomotion Gordon Conference: Eye Movements, Easton, MA.
90. **Earhart, G.M.**, Cote, D., Fisher, M., Leventhal, D., Sack, J. (2013) Overview: How do we know dance helps people with Parkinson’s? World Parkinson Congress, Montreal, Canada.
91. Duncan, R.P., Leddy, A.L., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2013) Balance Differences Between People With and Without Freezing of Gait in Parkinson Disease. World Parkinson Congress, Montreal, Canada.
92. Peterson, D.S., Pickett, K.A., **Earhart, G.M.** (2013) Supraspinal control of locomotion in those with Parkinson Disease. Society for Neuroscience, San Diego, CA.
93. Nemanich, S.T., **Earhart, G.M.** (2014) Smaller after-effects following prism adaptation during walking in Parkinson disease. Neuromuscular Plasticity Symposium, Gainesville, FL.
94. Peterson, D.S., Pickett, K.A., Duncan, R.P, **Earhart, G.M.** (2014) Neural activity during imagined walking in people with Parkinson disease. APTA Combined Sections Meeting, Las Vegas, NV.
95. Duncan, R.P., Combs-Miller, S., Cavanaugh, J.T., Dibble, L.E., Ellis, T., Ford, M.P., Foreman, K.B., Leddy, A.L., **Earhart, G.M.** (2014) Are the 6 minute and 10 meter walk

- tests redundant in Parkinson disease? Barnes Jewish Hospital Multidisciplinary Research Conference, St. Louis, MO.
96. Duncan, R.P., Pickett, K.A., **Earhart, G.M.** (2014) Tango or treadmill? A comparison of two exercise interventions for people with Parkinson disease. Barnes Jewish Hospital Multidisciplinary Research Conference, St. Louis, MO.
 97. Krampe, J. **Earhart, G.M.** (2014) Translation of dance-based research into practice, Gerontological Society of America, Washington D.C.
 98. Nemanich, S.T. **Earhart, G.M.** (2014) Differences between two prism adaptation tasks in people with Parkinson disease with and without freezing of gait. Society for Neuroscience, Washington D.C.
 99. Duncan, R.P., Pickett, K.A., **Earhart, G.M.** (2014) The effect of levodopa on identifying fall risk in Parkinson disease. Parkinson Study Group, St. Louis, MO.
 100. Nemanich, S., **Earhart G.** (2014) After-effects following stepping on a rotating surface: A comparison of people with Parkinson disease with and without freezing of gait and healthy controls. Clinical Research Training Center, St. Louis, MO.
 101. Duncan, R.P., Pickett, K.A., Weiss, R., **Earhart, G.M.**, Campbell, M.C. (2015) Do Measures of Balance, Motor Severity, or Executive Function Accurately Identify Fall History in Parkinson Disease? APTA Combined Sections Meeting, Indianapolis, IN.
 102. Paul, S.S., Duncan, R.P., Cavanaugh, J.T., **Earhart, G.M.**, Ellis, T.D., Ford, M.P., Foreman, K.B., Leddy, A.L., Canning, C.G., Thackeray, A., Dibble, L.E. (2015) External Validation of a Simple Clinical Tool Used to Predict Falls in People with Parkinson Disease, Movement Disorder Society, San Diego, CA.
 103. Nemanich, S.T., **Earhart, G.M.** (2015) Prism adaptation during reaching and walking: effects of task and aging on adaptation rate and after-effects. Society for the Neural Control of Movement, Charleston, SC.
 104. Duncan, R.P., McNeely, M.E., **Earhart, G.M.** (2015) Characterizing Maximum Step Length Test Performance in People with Parkinson Disease. Missouri Physical Therapy Association, St. Louis, MO.
 105. **Earhart, G.M.**, Canning, C. Dibble, L, Ellis, T., Rochester, L. (2015) Rehabilitation in Parkinson's Disease: Exercise is as Important as Medication, *Physiotherapy*, 101 (Suppl 1): e20.
 106. Harrison, E., McNeely, M.E., **Earhart, G.M.** (2015) Testing the feasibility of singing to improve gait measures in Parkinson's disease. Neuroscience Retreat - Washington University in St. Louis, Grafton, IL.
 107. Nemanich, S.T., **Earhart, G.M.** (2015) Effect of Parkinson disease and switching on saccade performance. Neuroscience Retreat - Washington University in St. Louis, Grafton, IL.
 108. Myers, P., McNeely, M.E., **Earhart, G.M.**, Campbell, M.C. (2015) Beyond the basal ganglia: cerebellar volumetrics in Parkinson disease. Neuroscience Retreat - Washington University in St. Louis, Grafton, IL.
 109. McNeely M.E., Pickett K.P., Duncan R.P., Hershey T., **Earhart G.M.** (2015) Longitudinal Changes in Gait in People with Wolfram Syndrome. Washington University Neuroscience Retreat, Grafton, IL.
 110. Nemanich, S.T., **Earhart, G.M.** (2015) Automaticity of two motor tasks in Parkinson disease. Clinical Research Training Center, St. Louis, MO.
 111. Duncan, R.P., McNeely, M.E., Cavanaugh, J.T., Dibble, L.E., Ellis, T.D., Ford, M.P., Foreman, K.B., **Earhart, G.M.** (2016) Tracking Progression of Motor Signs and Quality of Life Based on Motor Phenotype in Parkinson Disease. IV Step, Columbus, OH.
 112. Duncan, R.P., McNeely, M.E., **Earhart, G.M.** (2016) Non-motor symptoms in Parkinson's disease: Relationships with measures of motor performance, APTA Combined Sections Meeting, Anaheim, CA.

113. Christoforetti, G., McNeely, M.E., Duncan, R.P. **Earhart, G.M.**, Campbell, M.C. (2016) Factors impacting mobility in Parkinson's disease: evaluating the contribution of age, disease severity and executive function. APTA Combined Sections Meeting, Anaheim, CA.
114. McNeely, M.E., Duncan, R.P., **Earhart, G.M.** (2016) Differential effects of tango, treadmill, and stretching interventions on gait in people with Parkinson Disease. Rehabilitation Research at NIH: Moving the Field Forward, Bethesda, MD.
115. Harrison, E., McNeely, M.E., **Earhart, G.M.** (2016) The feasibility of singing to improve gait in Parkinson disease. Rehabilitation Research at NIH: Moving the Field Forward, Bethesda, MD.
116. Myers, P., McNeely, M.E., **Earhart, G.M.**, Campbell, M. (2016) Are cognition and cerebellar volumes different in freezers and non-freezers in Parkinson disease? Rehabilitation Research at NIH: Moving the Field Forward, Bethesda, MD.
117. Duncan, R.P., McNeely, M.E., **Earhart, G.M.** (2016) Does distance walked after two minutes predict total 6 minute walk test distance in people with Parkinson disease? International Parkinson and Movement Disorder Society, Berlin, Germany.
118. McNeely, M.E., Duncan, R.P., **Earhart, G.M.** (2016) Differential effects of tango, treadmill, and stretching interventions on gait in people with Parkinson Disease. International Parkinson and Movement Disorder Society, Berlin, Germany.
119. Seidler, K.J., Duncan, R.P., McNeely, M.E., Hackney, M.E., **Earhart, G.M.** (2016) Feasibility and preliminary efficacy of a telehealth approach to group tango instruction for people with Parkinson disease. International Parkinson and Movement Disorder Society, Berlin, Germany.
120. McNeely, M.E., Duncan, R.P., **Earhart, G.M.** (2016) Quantity and intensity of physical activity in people with Parkinson disease during exercise interventions. World Parkinson Congress, Portland, OR.
121. Myers, P., McNeely, M.E., **Earhart, G.M.**, Campbell, M.C. (2016) Cerebellar volumes and cognitive differences between Parkinson disease with and without freezing of gait. World Parkinson Congress, Portland, OR.
122. Harrison, E., McNeely, M.E., **Earhart, G.M.** (2016) Singing as a cue to improve gait in Parkinson disease: a feasibility study. World Parkinson Congress, Portland, OR.
123. Seidler, K. J., McNeely, M.E., Duncan, R. P., **Earhart, G.M.** (2017) Relationship between gait and reactive postural control in fallers and non-fallers with Parkinson disease. APTA Combined Sections Meeting, San Antonio, TX.
124. Martin, R.A., Fulk, G., Duncan R.P., Cavanaugh, J.T., Ellis, T., Ford, M., Foreman, K.B., **Earhart, G.M.**, Dibble, L. (2017) Estimated clinically meaningful decline in Freezing of Gait Questionnaire and self-selected gait speed for individuals with Parkinson's disease. APTA Combined Sections Meeting, San Antonio, TX.
125. Martin, R.A., Fulk, G., Duncan R.P., Cavanaugh, J.T., Ellis, T., Ford, M., Foreman, K.B., **Earhart, G.M.**, Dibble, L. (2017) Quality of life measures that detect clinically important decline in Parkinson's disease. APTA Combined Sections Meeting, San Antonio, TX.
126. **Earhart, G.M.** (2017) Clinical practice guidelines abstracts: Methodology for production of best practice guidelines for rare diseases. *J Neurol Phys Ther*, 41(3): 198.
127. Harrison, E.C., McNeely, M.E., Horin, A.P., **Earhart, G.M.** (2017) Moving to song: Using one's own voice to enhance movement in healthy adults. International Association for Dance Medicine and Science Annual Conference, Houston, TX.
128. Harrison, E.C., McNeely, M.E., Horin, A.P., **Earhart, G.M.** (2017) Self-generated rhythmic cueing to improve gait patterns in healthy adults. Society for Music Perception and Cognition, San Diego, CA.
129. Harrison, E.C., McNeely, M.E., Horin, A.P., **Earhart, G.M.** (2017) The effects of internal versus external rhythmic cueing on gait performance in healthy adults. Society for Neuroscience, Washington D.C.

130. Myers, P.S., McNeely, M.E., **Earhart, G.M.** (2017) Differences in neural activity during motor imagery in people with Parkinson disease with and without freezing of gait. Society for Neuroscience, Washington D.C.
131. Duncan, R.P., Van Dillen L., Garbutt, J., **Earhart, G.M.**, Perlmutter, J.S. (2018) Low back pain in Parkinson disease: Impact on functional activities, physical activity, and quality of life. APTA Combined Sections Meeting, New Orleans, LA.
132. Martin, R., Fulk, K., Dibble, L., Ellis, T., Cavanaugh, J., Ford, M., Foreman, K., **Earhart, G.M.**, Fulk, G. (2018) Predicting walking activity in Parkinson's disease. APTA Combined Sections Meeting, New Orleans, LA.
133. Bemis-Dougherty, A., **Earhart, G.M.**, Scholtes, S., Ludewig, P. (2018) Incorporating the Movement System into Education and Research. APTA NEXT Meeting, Orlando, FL.
134. Harrison, E.C., McNeely, M.E., Horin, A.P., **Earhart, G.M.** (2018) Moving while singing: how internal cues can improve walking for older adults and people with Parkinson disease. Movement: Brain, Body, Cognition Annual Conference, Boston, MA.
135. Harrison, E.C., McNeely, M.E., Horin, A.P., **Earhart, G.M.** (2018) Self-generated rhythmic cueing to improve gait patterns in healthy adults. Neuroscience Retreat - Washington University in St. Louis, Grafton, IL.
136. Creel, T.H., Templin, L.A., McNeely, M.E., Rawson, K.S., Horin, A.P., Duncan, R.P., **Earhart, G.M.** (2019) A novel framework for addressing freezing of gait in Parkinson disease: Combining education and evidence-based interventions in a small group community setting. APTA Combined Sections Meeting, Washington, DC, & Missouri Physical Therapy Association, St. Louis, MO.
137. Harrison E.C., Horin A.P., McNeely M.E., Myers, P.S., Rawson, K.S., Sutter, E.N., **Earhart GM.** (2019) Self-generated auditory cues enhance gait kinematics for people with Parkinson disease. Movement: Brain, Body, Cognition. Tel Aviv, Israel.
138. Horin A.P., Harrison E.C., **Earhart G.M.** (2019) The effects of music and mental singing on gait and finger tapping variability in healthy adults and people with Parkinson disease. Society for Music Perception and Cognition. New York, NY.
139. Harrison E.C., Horin A.P., McNeely M.E., Myers, P.S., Rawson, K.S., Sutter, E.N., **Earhart G.M.** (2019) Differential effects of internal and external cues on gait kinematics in Parkinson disease. Society for Music Perception and Cognition. New York, NY.
140. Horin, A.P., Harrison, E.C., Rawson, K.S., **Earhart, G.M.** (2019) Auditory Cueing of Gait in Parkinson Disease: Responses to Different Cues in People with and without Freezing of Gait, American Neurological Association, St. Louis, MO.
141. Horin, A.P., Harrison, E.C., Rawson, K.S., **Earhart, G.M.** (2019) Differences in response to auditory cues across movement types in people with PD with and without freezing of gait. Society for Neuroscience, Chicago, IL.
142. Rawson, K.S., Duncan, R.P., DeAngelis T., Nordahl, T. **Earhart, G.M.**, Ellis, T.E. (2019) People living with Parkinson disease with and without freezing: Differences using the Neuro-QOL measurement system. Gerontological Society of America, Austin, TX.
143. Cavanaugh, J.T., Colon-Semenza C., DeAngelis T., Duncan, R., Fulford, D., Hessler, M., Nordahl, T., Rawson, K., **Earhart, G.M.***, Ellis, T. (2020) How well do clinical walking measures predict natural walking behavior in Parkinson disease? APTA Combined Sections Meeting, Denver, CO.
144. Duncan, R.P., Rawson, K.S., **Earhart, G.M.**, Van Dillen, L.R., Perlmutter, J.S. (2020) Physical therapy and deep brain stimulation in Parkinson disease: a pilot randomized controlled trial. International Parkinson & Movement Disorder Society, Virtual Meeting.
145. May, D.S., Rawson, K.S., Moeller, D.R., Tueth, L.E., Duncan, R.P., Harrison, E.C., Horin, A.P., Myers, P.S., **Earhart, G.M.** (2020) Examining the effects of a dental mouthpiece on parkinsonian motor signs and symptoms. International Parkinson & Movement Disorder Society, Virtual Meeting.

146. Ambler, S.A., Holleran, C.L., Norton, B.J., Burlis, T.L., **Earhart, G.M.** (2020) Transforming society through competency-based physical therapy education. ACAPT Education Leadership Conference.
147. Girnis, J., Ko, C., Cavanaugh, J.T., Colón-Semenza, C., DeAngelis, T., Duncan, R.P., Hessler, M., Holmes, M.B., Nordahl, T., Rawson, K.S., Shumate, S., **Earhart, G.M.**, Ellis, T.D. (2021) Is Fatigue Associated with Physical Activity in People with Parkinson Disease? APTA Combined Sections Meeting, Virtual Meeting.
148. Zajac, J.A., Cavanaugh, J.T., Colón-Semenza, C., DeAngelis, T., Duncan, R.P., Hessler, M., Nordahl, T., Rawson, K.S., Shumate, S., **Earhart, G.M.**, Ellis, T.D. (2021) Life-Space as an Indicator of Active Mobility in Persons with Parkinson Disease. APTA Combined Sections Meeting, Virtual Meeting.
149. May, D.S., Van Dillen L.R., **Earhart, G.M.**, Rawson, K.S., Perlmutter, J.S., Duncan, R.P. (2021) Effects of STN-DBS and levodopa on balance in people with Parkinson disease. American Physical Therapy Association Combined Sections Meeting. Journal of Neurologic Physical Therapy CSM Abstract Archives. Control ID: 28609
150. Maiti, B., Rawson, K.S., Tanenbaum, A.B., Koller, J.M., Snyder, A.Z., Campbell, M.C., **Earhart, G.M.**, Perlmutter, J.S. (2021) Gait correlates of resting-state functional connectivity of cerebellar vermis in Parkinson disease. American Academy of Neurology.
151. Zajac, J.A., Cavanaugh, J.T., Baker, T., Colón-Semenza, C., DeAngelis, T.R., Duncan, R.P., Fulford, D., LaValley, M., Nordahl, T., Rawson, K.S., Saint-Hillaire, M., Thomas, C.A., **Earhart, G.M.**, Ellis, T.D. (2021) Are Mobile Persons with Parkinson Disease Necessarily More Active? International Parkinson & Movement Disorder Society, Virtual Meeting.
152. Swink, L.A., Schenkman, M., Christiansen, C.L., Hager, E.R., **Earhart, G.M.**, Gisbert, R., Mañago, M. (2021) Exercise patterns in a virtual world: Barriers and needs for people with Parkinson's disease. Virtual Occupational Therapy Summit.
153. Mañago, M.M., Swink, L.A., Hager, E.R., Gisbert, R. **Earhart, G.M.**, Christiansen C.L., Schenkman, M. (2021) Community-based exercise class participation for people with Parkinson's disease and their class instructors during COVID-19. Academy of Neurologic Physical Therapy Virtual Conference.
154. Duncan, R.P., Rawson, K.S., Baker, T., Cavanaugh, J.T., Colon-Semenza, C., DeAngelis, T.R., Fulford, D., LaValley, M., Nordahl, T., Saint-Hillaire, M., Thomas, C.A., Zajac, J.A., Ellis, T.D., **Earhart, G.M.** (2021) Relationship between low back pain-related disability and motor performance in people with Parkinson disease. International Parkinson & Movement Disorder Society.
155. Rawson, K.S., Tueth, L.E., Baker, T., Cavanaugh, J.T., Colon-Semenza C., DeAngelis, T.R., Duncan, R.P. Fulford, D., LaValley, M., Nordahl, R., Saint-Hillaire, M., Thomas, C.A., Zajac, J.A., Ellis, T.D., **Earhart, G.M.** (2021) Is cognitive performance related to motor performance among people with Parkinson disease? International Parkinson & Movement Disorder Society.
156. Ambler, S.A., Holleran, C.L., Randolph, J., Norton, B.J., Burlis, T.L., **Earhart, G.M.** (2021) Transforming society through competency-based physical therapy education: Moving from Theory to Practice. ACAPT Education Leadership Conference.
157. Tueth, L.E., **Earhart, G.M.**, Harrison, E.C. (2022) Musical cues to improve gait in people with Parkinson disease and dementia. APTA Combined Sections Meeting.
158. Koch, K., Sweeney, N., Cavanaugh, J.T., DeAngelis, T.R., Duncan, R.P., Girnis, J., Hessler, M. Holmes, M.B., Nordahl, T., Rawson, K.S., Zajac, J., **Earhart, G.M.**, Ellis, T.D. (2022) Does ZIP code influence daily steps in individuals with Parkinson disease? APTA Combined Sections Meeting.
159. Girnis, J., Cavanaugh, J.T., DeAngelis, T.R., Duncan, R.P., Hessler, M., Lawrence, M.A., Nordahl, T., Rawson, K.S., Zajac, J., **Earhart, G.M.**, Ellis, T.D. (2022) Steps don't tell the

- whole story: Intensity matters in examining walking behavior in Parkinson disease. APTA Combined Sections Meeting.
160. Zajac, J.A., Cavanaugh, J.T., Baker, T., Duncan, R.P., Fulford, D., Giris, J., LaValley, M., Nordahl, T., Porciuncula, F., Rawson, K.S., Saint-Hillaire, M., Thomas, C.A., **Earhart, G.M.**, Ellis, T.D. (2022) Does walking capacity predict walking performance in people with Parkinson disease? International Society for Posture & Gait Research.
 161. Giris, J., Cavanaugh, J.T., Baker, T., Duncan, R.P., Fulford, D., LaValley, M., Lawrence, M.A., Nordahl, R., Porciuncula, F., Rawson, K.S., Saint-Hillaire, M., Thomas, C.A., Zajac, J.A., **Earhart, G.M.**, Ellis, T.D. (2022) Beyond step counts: Low intensities of real-world walking prevail in Parkinson disease. International Society for Posture & Gait Research.
 162. Lang, C.E., Holleran, C.L., Strube, M.J., Ellis, T., Newman, C.D., Fahey, M., DeAngelis, T.R., Nordahl, T., Reisman, D.S., **Earhart, G.M.**, Lohse, K.R., Bland, M.D. (2022) Improvement in the capacity for activity vs. improvement in performance of activity in daily life during outpatient rehabilitation. American Society for Neurorehabilitation, St. Louis, MO.
 163. Tueth, L.E., **Earhart, G.M.**, Harrison, E.C. (2022) Sing for your saunter: Musical cues to improve gait in people with Parkinson disease with and without dementia. American Society of Neurorehabilitation, St. Louis, MO.
 164. May, D.S., **Earhart, G.M.**, Mazzoni, P. (2022) Taking the assessment of freezing of gait from the lab into the clinic and the real world. American Society of Neurorehabilitation, St. Louis, MO.
 165. Harrison, E.C., Tueth, L.E., Earhart, G.M. (2022) Self-generated, personalized cues can improve gait for people with Parkinson disease. Society for Music Perception & Cognition, Portland, OR.
 166. Ambler, S.A., Holleran, C.L., Randolph, J., Norton, B.J., Burlis, T.L., **Earhart, G.M.** (2022) Transforming society through competency-based physical therapy education: Implementation and Adaptive Learning. ACAPT Education Leadership Conference.
 167. Tueth, L.E., **Earhart, G.M.**, Harrison, E.C. (2022) Using wearable sensors to track real-time changes in gait in response to musical cues. Academy of Physical Therapy Research Retreat, Beverly, MA.
 168. Vinacco, K., Jacobson, K., Cavanaugh, J.T., DeAngelis, T.R., Duncan, R.P. Giris, J., Hessler, M., Holmes, M.B., Nordahl, T., Porciuncula, F., Rawson, K.S., Zajac, J., **Earhart, G.M.**, Ellis, T.D. (2023) Using the biopsychosocial model to explore real world walking activity in people with Parkinson disease. APTA Combined Sections Meeting, San Diego, CA.
 169. Duncan, R.P., Baker, T., Cavanaugh, J.T., DeAngelis, T.R., Fulford, D., Giris, J., Hessler, M., Lavalley, M., Nordahl T., Saint-Hillaire, M., Thomas, C.A., Zajac, J., Ellis, T.D., **Earhart, G.M.**, Rawson, K.S. (2023) Relationships between low back pain-related disability, motor capacity, and cognition in people with Parkinson disease. APTA Combined Sections Meeting, San Diego, CA.
 170. Hausser, A.M., Tueth, L.E., May D.S., **Earhart, G.M.**, Mazzoni, P. (2023) Exploring prediction of freezing of gait using sensor-based probability of freezing. World Parkinson Congress, Barcelona, Spain.
 171. Baudendistel, S.T., Hizer, S., Hausser, A.M., Rawson, K.S., Campbell, M.C., **Earhart, G.M.** (2023) Differences in gait between clinical subtypes in Parkinson disease. World Parkinson Congress, Barcelona, Spain.
 172. Duncan, R.P. Nordahl, T., Baker T., Cavanaugh, J.T., DeAngelis, T.R., Fulford, D. Giris, J., Hessler, M., Lavalley, M. Saint-Hillaire, M., Thomas, C.A., Zajac, J., Ellis, T.D., **Earhart, G.M.**, Rawson, K.S. (2023) Does musculoskeletal pain impact physical activity in people with Parkinson disease? World Parkinson Congress, Barcelona, Spain.

173. Tueth, L.E., Foreman, R. Duncan, R.P., Baker, T., Cavanaugh, J.T., DeAngelis, T.R., Fulford, D., Giris, J., Lavalley, M., Nordahl, T., Saint-Hilaire, M., Thomas, C.A., Ellis, T.D. **Earhart, G.M.**, Rawson, K.S. (2023) Quality of life neurological disorders (Neuro-Qol) differences among individuals with Parkinson disease with and without freezing of gait. World Parkinson Congress, Barcelona, Spain.
174. Baker, T., Rawson, K.S., Giris, J., Duncan, R.P., Cavanaugh, J.T. DeAngelis, T.R., Fulford, D., Hessler, M., Lavalley, M., Nordahl, T., Saint-Hilaire, M., Thomas, C.A., Zajac, J., **Earhart, G.M.**, Ellis, T.D., Porcuincola, F. (2023) Relationship of self-efficacy and real world walking behavior in persons with Parkinson disease. World Parkinson Congress, Barcelona, Spain.
175. Rawson, K.S., Tueth, L., Kloekner, J., Foreman, R., Duncan, R.P., Haussler, A.M., Baudendistel, S.T., Lohse, K., **Earhart, G.M.** (2023) Moving mindfully: A mindfulness-based walking therapy for people with freezing of gait. World Parkinson Congress, Barcelona, Spain.
176. Tueth, L.E., Haussler, A.M., Baudendistel, S.T., **Earhart, G.M.** (2023) Gait and balance dysfunction in individuals with Huntington disease. Neuromuscular Plasticity Symposium, Gainesville, FL
177. Harrison, E.C., Haussler, A.M., Tueth, L.E., **Earhart, G.M.** (2023) Room to Zoom: Virtual ballet and wellness classes to improve gait, balance and quality of life in older women International Association for Dance Medicine and Science, Columbus, Ohio.
178. Baudendistel, S.T., Hizer S., Haussler, A.M., Rawson, K.S., Campbell, M.C., **Earhart, G.M.** (2023) Gait differences between clinical subtypes of Parkinson disease. American Society of Biomechanics, Knoxville, TN.
179. Tueth, L.E., Haussler, A.M., Baudendistel, S.T., **Earhart, G.M.** (2023) Gait, balance and activity level in individuals with Huntington disease. APTA Combined Sections Meeting, Boston, MA.
180. Paul, S.S., Porcuincola, F., Cavanaugh, J.T., Rawson, K.S., Nordahl, T.J., Baker, T.C., Duncan, R.P., **Earhart, G.M.**, Ellis, T.D. (2024) Non-exercise predictors of activity performance and participation in exercising people with Parkinson's disease. International Society of Physical Medicine and Rehabilitation, Sydney, Australia.
181. Paul, S.S., Baker, T.C., Duncan, R.P., Hessler, M., Cavanaugh, J.T., Nordahl, T.J., Rawson, K.S., **Earhart, G.M.**, Ellis, T.D. (2024) Community access in people with Parkinson's disease: motivators, facilitators and barriers. International Society of Physical Medicine and Rehabilitation, Sydney, Australia.
182. Harrison E.C., Tueth L.E., Haussler A.M., Rawson K.S., **Earhart G.M.** (2024) Personalized musical cues to optimize gait performance for healthy controls and people with PD. Society for Music Perception and Cognition, Annual Conference, Banff, Alberta, Canada.
183. **Earhart, G.M.**, Tueth L.E., Haussler A.M., Rawson K.S., Harrison E.C. (2024) Use of personalized musical cues to optimize walking in people with (and without) Parkinson disease. International Parkinson and Movement Disorder Society, Philadelphia, PA.
184. Baudendistel, S.T., Haussler, A.M., Tueth, L.E., Harrison, E.C., **Earhart, G.M.** (2024) Steady earworms: Within trial differences of music vs mental singing during gait in PD, American Society of Biomechanics, Madison, WI.
185. Haussler, A.M., Tueth, L.E., May, D.S., **Earhart, G.M.**, Mazzoni, P. (2024) How low can you go? Refining an algorithm for assessing freezing of gait in Parkinson disease. American Society of Biomechanics, Madison, WI.

Professional Presentations:

1. "Mechanisms and Treatment of Cerebellar Ataxia", Symposium co-presented with Amy J. Bastian, P.T., Ph.D. and Catherine E. Lang, P.T., Ph.D., APTA Meeting and Exposition, June 2000, Indianapolis, IN

2. "The Postdoctoral Fellowship: Why and How?", Symposium co-presented with Catherine E. Lang, P.T., Ph.D., APTA Combined Sections Meeting, Feb. 2003, Tampa, FL
3. "Turning to Parkinson's Disease: Plans for a Novel Treatment Strategy to Address Problems with Turning and Freezing During Gait", PT Conclave, September 2004, Washington University School of Medicine, St. Louis, MO
4. "Walking, Balance and Falls in Parkinson Disease: Recent Research and Practical Applications", Greater St. Louis Chapter of the American Parkinson Disease Association PEP Talk, April 2006, Richmond Heights, MO
5. "Walking, Balance and Falls in Parkinson Disease: Recent Research and Practical Applications", Gentiva SafeStrides™ Continuing Education Seminar, March 2007, St. Louis, MO
6. "Motor Control and Motor Learning: Recent Research and Practical Applications", Missouri Physical Therapy Association Fall Meeting, Maryville University, October 2007, St. Louis, MO
7. "Rotating Treadmill Adaptation: Mechanisms and Application", The Science of Balance Rehabilitation Workshop, January 2008, Phoenix, AZ
8. "Tango as Therapy for Individuals with Parkinson Disease", St. Louis University, December 2008, St. Louis, MO
9. "Adaptive Control of Spatial Orientation for Locomotion in Health & Disease" Alzheimer's Disease Research Center, Washington University School of Medicine, February 2009, St. Louis, MO
10. "Locomotor Adaptation in Health & Disease", VA Palo Alto Spinal Cord Injury Center, July 2009, Palo Alto, CA
11. "Research and Physical Rehabilitation in Parkinson Disease", Neurorehabilitation Grand Rounds, Washington University in St. Louis, September 2009, St. Louis, MO
12. "Adaptive Control of Locomotor Spatial Orientation in Health and Disease", Anatomy & Neurobiology Seminar Series, Washington University in St. Louis, November 2009, St. Louis, MO
13. "Resistance Training Induces Supraspinal Adaptations: Evidence from Movement-Related Cortical Potentials", Missouri Physical Therapy Association, April 2010, St. Louis, MO
14. "Parkinson Disease and Rehabilitation", Barnes Jewish Hospital Rehabilitation Lecture Series, May 2010, St. Louis, MO
15. "Rehabilitation in Parkinson Disease: Past, Present, and Future", Rehabilitation Research Day: Advances in Neuro Rehabilitation, The Rehabilitation Institute of St. Louis, October 2010, St. Louis, MO
16. "Gait Analysis", WUSM PM&R Resident Lecture Series, December 2010, St. Louis, MO
17. "Balance, Falls, and Physical Activity in Parkinson Disease", Balance and Falls Symposium Series, Oregon Health & Science University, September 2011, Portland, OR
18. "From Turtles to Turning to Tango: Studies on the Neural Control of Movement", University of Alabama at Birmingham, April 2012, Birmingham, AL
19. "From Turtles to Turning to Tango: Studies on the Neural Control of Movement", University of Delaware, April 2012, Newark, DE
20. "Making Fitness Fun: Parkinson Disease and Non-Traditional Community-Based Group Exercise", Symposium co-presented with Stephanie Combs, PT, PhD, NCS, APTA Combined Sections Meeting, January 2013, San Diego, CA
21. "Trial Reporting and Publication Strategies", Parkinson Study Group Introduction to Clinical Trials Course, September 2013, Montreal, Canada
22. "Living Well with PD: The Importance of Physical Activity, Self-Efficacy, and Creativity", World Parkinson Congress, October 2013, Montreal, Canada

23. "Tango as Therapy for People with Parkinson Disease: A Scientific and Musical Presentation with Cortango Orquesta of the St. Louis Symphony", Goldfarb School of Nursing, St. Louis, MO, September 2014
24. "Tango of Treadmill? A Comparison of Two Exercise Interventions for People with Parkinson Disease", Barnes-Jewish Hospital Department of Research for Patient Care Services, St. Louis, MO, October 2014
25. "Tango and Parkinson Disease", Parkinson Disease & Exercise Meeting, Chicago, IL, December 2014
26. "Active Interventions: Frequency, Intensity, Time, Type, Setting, and Duration", Parkinson Disease & Exercise Meeting, Chicago, IL, December 2014
27. "Falls in Parkinson Disease: Causes, Prediction, and Prevention", APTA Combined Sections Meeting, Indianapolis, IN, February 2015
28. "Exercise: What Do We Know About How It Impacts Parkinson's?", World Parkinson Coalition, World Parkinson Coalition Scientific Update, Webinar, October 2015
29. "Physical Therapy and Parkinson's: Exercise is as important as medication", Missouri Physical Therapy Association, St. Louis, MO, January 2016
30. "Neuroimaging of Motor and Sensory Function in Health and Disease", APTA Combined Sections Meeting, Anaheim, CA, February 2016
31. "Nothing To It, But To Do It: Integrating Exercise Into Everyday Life", St. Louis Parkinson Congress, St. Louis, MO, October 2017
32. "Not the Same Old Song and Dance: Rhythm and Parkinson's", MLA Lecture Series, Washington University in St. Louis, February 2018
33. "Not the Same Old Song and Dance: Novel Approaches to Rehabilitation in Parkinson Disease", Keynote Presentation at Barnes Jewish Hospital Interdisciplinary Rehabilitation Conference, St. Louis, MO, October 2018
34. "Integrating Current Evidence into Neurologic Physical Therapy Educational Programs", APTA Combined Sections Meeting, January 2019
35. "Navigating Negotiation and Hiring Process in Academia", American Society of Neurorehabilitation, Webinar, October 2022
36. "Fireside Chat with APTA Centennial Scholars", American Physical Therapy Association, Webinar, October 2022
37. "Long Time No C(V): Making the Most of an Lengthy Clinical Trial of Exercise for Parkinson Disease", WUPT Research Seminar, November 2022

Continuing Education (given):

- Parkinson's Foundation Physical Therapy Online Course, "Optimizing Motivation to Exercise" & "Gait Training", 2019
- Parkinson's Foundation Physical Therapy Faculty Course, Host Coordinator, 2022, 2023, <https://www.parkinson.org/resources-support/professionals/in-person-learning/physical-therapy-faculty-program>

Continuing Education (taken):

- APTA Meeting & Exposition, 2000, 2005
- Vestibular Rehabilitation for Balance and Dizziness, Calgary, AB, Canada, 2001
- NIH Regional Seminar on Program Funding and Grants Administration, Portland, OR, 2002
- Neurological Sciences Institute Grant Writing Workshop, Portland, OR, 2002
- Grantsmanship 101: The Investigator-Initiated NIH Grant, Portland, OR, 2003
- NIH NCMRR Trainee Workshop, Silver Springs, MD, 2003
- APTA Combined Sections Meeting, 2000, 2003, 2006- 2008, 2011-2020
- III Step: Linking Movement Science and Intervention, 2005

- Society for Neuroscience Meeting, 1999, 2001, 2003, 2005, 2011, 2013
- International Society for Posture and Gait Research, 2003, 2007, 2012, 2013
- World Parkinson Congress, 2006, 2010, 2013, 2016
- Mentoring and Supervision for the Responsible Conduct of Research, 2006
- Forging Your Own Path: A Summit on the Advancement of Women Faculty at Washington University, 2007
- Movement Disorders Society Meeting, 2008, 2013, 2015
- The Key Elements to Becoming an Effective Mentor, 2008
- Third Parkinson's Disease Foundation Exercise Meeting, 2010
- Mentoring and Morale: Society for Neuroscience Annual Neuroscience Departments and Programs Meeting, 2013
- Gordon Conference: Eye Movements, 2013
- Sensing Motion for Action Conference, 2013
- Progress in Motor Control IX, 2013
- WUSM Academic Medical Leadership Program for Physicians and Scientists, 2014
- Building, Retaining, and Sustaining a Diverse Student Body, 2014
- APTA Education Leadership Institute Fellow, July 2014-July 2015
- Preparing the Next Generation of Physical Therapists for Innovative Practice, Washington, DC, July 2014
- Leadership Retreat: Flexible Work Culture, Mission Disruption, Finding the Right Leaders, September 2014
- APTA NEXT Annual Conference, 2014, 2015, 2018
- APTA Education Leadership Conference, 2014, 2017, 2020, 2021
- ACAPT Clinical Education Summit, October 2014
- Diversity and Inclusion 1.0 and 2.0, St. Louis, MO, November 2014
- Professionalism for Clinicians & Scientists, November 2014
- Medical Education Day: Teaching as Leadership, December 2014
- World Confederation of Physical Therapy, May 2015
- Faculty Development Workshop: STEM Education, WUSM, May 2015
- Diversity and Inclusion 3.0, St. Louis, MO, November 2015
- Diversity and Inclusion 4.0, St. Louis, MO, January 2016
- Leading: Top Skills, Attributes, and Behaviors Critical for Success, WUSM, February 2017
- Taking Action: Unconscious Bias Training for Hiring Managers, WUSM, September 2017
- New Leader Onboarding Program, WUSM, 2017
- Witnessing Whiteness, WUSM/YWCA, 2021
- Diversity, Equity & Inclusion in the Workplace Certificate, University of South Florida, April-May 2021
- Equity, Diversity and Inclusion in Higher Education Certificate, University of Michigan, May 2021
- Inclusive & Ethical Leadership Certificate, University of South Florida, October 2021
- Equity Champion Training, Washington University School of Medicine, October 2021
- OneRace Program, St. Louis Change and Action for Racial Equity, July – November 2021
- National Board of Medical Examination Item Writing Workshop, January 2022
- American Society for Neurorehabilitation Annual Meeting, March 2022
- Mentoring Workshop: Giving and Receiving Feedback, June 2022
- Executive Presence Certificate, Cornell University, December 2022
- QPR Suicide Prevention Gatekeeper, February 2023
- Kognito At-Risk Mental Health for Faculty & Staff, August 2023

- Coaching Approach to Annual Reviews, March 2024
- CIMER Mentorship Training Workshop, June 2024
- Center for Teaching & Learning Summer AI Institute, July 2024

Media Activities:

- “The Tango Effect” by Randall Roberts, The Riverfront Times, January 25-31, 2007
- “Vive, la tango!”, The Record (Washington University Newspaper), February 15, 2007
- “Tango improves balance, mobility in patients with Parkinson’s disease” by Beth Miller, Medical News Releases, January 30, 2008 (<http://mednews.wustl.edu>) & The Record, February 7, 2008
- “Exercise: Parkinson’s Patients Benefit from Tango” by Eric Nagourney, New York Times, February 12, 2008
- “Fancy Footwork as Therapy” by Cynthia Billhartz Gregorian, St. Louis Post Dispatch, April 7, 2008
- Ivanhoe Medical Breakthroughs, Nationwide News Release, April 2008
- “Finding the Beat Once Again”, CBS Evening News, April 15, 2008
- “The Neuroscience of Dance”, Scientific American, July 2008
- “Tango Therapy: The Healing Embrace”, The Argentines, Buenos Aires, Argentina, August 1, 2008
- “Tango Therapy”, The World on Public Radio International, July 29, 2008
- “Dance Class ‘Uplifting’ for Parkinson’s Patients”, USA Today, November 13, 2008
- “Dance for the Cure: Tango Improves Parkinson’s Study Says”, Student Life (Washington University), November 17, 2008
- Ellis, Terry (moderator), Gammon Earhart, Beth Fisher, Fay Horak, and Margaret Schenkman. "Exercise, Balance, and Parkinson's Disease." Journal of Neurologic Physical Therapy Journal Club Podcast, June 2009. Pasadena, CA: Science Audio. <http://www.scienceaudio.net/jnpt/200906/jnpt_200906_journal_club.mp3>
- “To Dance Again: Tango Meets Parkinson’s”, documentary produced by Kerstin Adelt, Higher Education Channel, <http://www.hectv.org/programs/spec/program.php?specialid=35>, 2009 (St. Louis Film Critics Association Award for Best Documentary Short, 2010)
- “Dancing the Tango May Help Parkinson’s Patients”, Fox Files News Feature, KTVI Channel 2, St. Louis, March 2, http://www.fox2now.com/news/ktvi-tango-helps-parkinsons-patients-030210_0_6088173.story, 2010
- “Dancing Tango is Used to Treat Various Diseases”, Clarin Newspaper, Buenos Aires, Argentina, July 29, 2010
- Health Benefits of Dance, Mysteries of the Human Body, Korean Broadcasting System, Seoul, South Korea, April 2011
- “Parkinson’s & dance: An unusual partnership unites” by Lindsey Tanner, Associated Press, December 2011
- “Dance as Complementary Therapy for Parkinson Disease”, Health Innovations in Context, <http://www.hinnovic.org/dance-as-complementary-therapy-for-parkinson-disease/>, December 2011
- “Earhart Gives Engaging Lecture and Receives Inaugural Alumni Achievement Award”, The Bulletin of Arcadia University, <http://bulletin.arcadia.edu/2012/02/earhart-gives-engaging-lecture-and-receives-inaugural-alumni-achievement-award/>, February 2012
- “Tai Chi for Parkinson Disease” video segment for Chinese Culture Days at the Missouri Botanical Gardens, March 2012

- “Benefits of Tango for People with Parkinson’s Disease” by Heather Stringer, Today in PT Magazine, May 2012
- “Transmission to Transformation: Defining a Global Trajectory for Excellence”, Arcadia Magazine, <http://magazine.arcadia.edu/inauguration-carl-oxholm-iii/featured-secondary/transmission-transformation-defining-global-trajecto>, Spring 2012
- “Teaching Tango for Parkinson’s: Gammon M. Earhart, PT, PhD”, Parkinson’s Disease Foundation Newsletter, Spotlight on Research, April 2013
- “Care to tango? Why people with Parkinson’s disease may want to put on their dancing shoes”, WUSM Outlook Magazine, August 2013
- “Washington People: Gammon Earhart, Reviving Freedom of Movement with Tango”, WU Record, March 2014
- “For Patients with Parkinson: It Takes Two to Tango”, Neurology Times, September 2014
- “Passionate and precise, the Tango is also therapeutic”, The Washington Post, September 2014
- “My Way: A New Approach to Parkinson Disease”, Azzurra TV Italy, <http://www.vcoazzurratv.it/galleria-video/video-relativi-a/vconotizie/video/vconotizie-del-27-giugno-2016.html>, June 2016
- “Dancing Helps Patients with Parkinson’s Disease”, KSDK News St. Louis, April 2017
- Sing for your saunter: Self-generated cues to enhance gait in Parkinson disease. International Society of Posture and Gait Research Blog, <http://www.ispgr.org/blogs>, June 2017
- “Dance for Parkinson’s Disease”, Movement Disorder Society Scientific Issues Committee Blog, <https://www.movementdisorders.org/MDS/Scientific-Issues-Committee-Blog/Dance-for-Parkinsons-Disease.htm>, March 2018
- “Finding Connections: James Parkinson, Turtles, and Hope”, World Parkinson Congress Blog, <https://www.worldpdcongress.org/home/2018/2/8/finding-connections-james-parkinson-turtles-and-hope>, April 2018
- “Parkinson’s Disease Awareness Month”, KSDK News St. Louis, April 2018
- “That’s Entertainment: Giving New Meaning to the Term ‘Healing Arts’”, PT Magazine, May 2019
- “Generation Rap: Veteran and Emerging Leaders Speak Out”, PT in Motion, December 2019
- “Competency Based Curriculum in DPT Education”, Healthcare Education Transformation Podcast, February 2020
- “Sing for Your Saunter: How Music and Singing Affect Walking in Older Adults With and Without Parkinson Disease”, Sound Health Network Newsletter, September 2021
- “Mindful Walking to Address Freezing of Gait in Parkinson Disease”, American Mindfulness Research Association Podcast, December 2021
- “Why Dancing is Good for Brain Health and Helps Lessen Disorder Symptoms”, interviewed for Brain & Life magazine, October/November 2023
- “Developing Interventions to Improve Gait and Increase Physical Activity in Parkinson’s Disease”, Michael J. Fox Foundation Research Podcast: New Discoveries in Neuroscience, June 2024

Community Activities:

- “The Cerebellum & Ataxia”, Alberta Ataxia Support Group, July 2001, Calgary, AB, Canada
- “What Causes Balance Problems and Falls? The Latest Research on Balance”, Elsie Stuhr Senior Center and Hearthstone at Murray Hill, February 2004, Beaverton, OR
- Brain Fair, Oregon Museum of Science and Industry, 2003, 2004

- “I’m Freezing: A Common Walking Problem Associated with Parkinson Disease”, article published in American Parkinson Disease Association St. Louis Parkinson Newsletter, Volume 1, February 2005
- “Exercise, Your Options: A Guide To Exercising With PD”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, Volume 20 No. 1, June 2007
- “A Celebration of Dance: How Dance Influences Movement in Individuals with Parkinson Disease”, Fundraiser for Greater St. Louis American Parkinson Disease Association, Founder, Organizer & Host December 2007, Invited Speaker/Special Guest 2008-2010, St. Louis, MO
- “Benefits of Dance for People with Parkinson Disease”, Training Session for Parkinson Disease Support Group Leaders, Greater St. Louis American Parkinson Disease Association, March 2008, St. Louis, MO
- “Addressing Functional Mobility Issues in Parkinson Disease”, St. John’s Mercy Physical Therapy Department In-Service, March 2008, St. Louis, MO
- “Get Active, Stay Active: An Overview of Exercise for People with Parkinson Disease”, Kirkwood Parkinson’s Disease Support Group, April 2008, Kirkwood, MO
- “Exercise for Seniors”, STAES Senior Exercise Program, April 2008, St. Louis, MO
- “It Takes Two to Tango, But an APDA Grant to Prove Its Benefits for People with PD”, The American Parkinson Disease Association Spring 2008 Newsletter
- “Alternative Approaches to Exercise”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, August 2008
- “Dancing Your Way to Better Health”, 4th Annual Healthy Living Senior Fair, St. Charles, MO, August 2008
- “Non-traditional Approaches to Exercise for People with Parkinson Disease”, St. Peters Parkinson’s Disease Support Group, St. Charles, MO, October 2008
- Greater St. Louis American Parkinson Disease Association Lucky 13 Fundraiser, Invited Speaker, October 2008
- College Student Interest Group in Neuroscience (CO-SIGN), Faculty Guest Speaker, Washington University in St. Louis, St. Louis, MO, January 2009
- “Brain Activity and Fatigue: Effects of Aging and Parkinson Disease”, St. Peters Parkinson’s Disease Support Group, St. Charles, MO, October 2009
- “Would You Like to Dance? APDA to Sponsor Tango Classes!”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, November 2010
- “Dancing Your Way to Better Health”, article in newsletter of the North Texas Chapter of the American Parkinson Disease Association, December 2010
- “PD4PD: Partnered Dance for Parkinson Disease”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, November 2011
- Judge, Annual Biomedical Research Conference for Minority Students, St. Louis, MO, November 2011
- Consultant, “The Parkinson Journey: From Diagnosis to Treatment to Cure” Resource DVD, Greater St. Louis Chapter American Parkinson Disease Association, 2012
- Clark Elementary School Science Enrichment Committee, Webster Groves, MO, 2009-2013
- Judge, Greater St. Louis Science Fair, St. Louis, MO, 2012, 2013
- “Physical Therapy and Exercise for Parkinson Disease”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, February 2013
- “Walking and Balance in Parkinson’s: The Latest Research”, Young Onset PD Support Group, Missouri Baptist Hospital, St. Louis, MO, February 2013
- APTA Section on Research Congressional Fly-In, Washington DC, February 2013
- “Brain Health”, Clark Elementary School, Webster Groves, MO, September 2013

- Office of Diversity Health Career Fair, Washington University in St. Louis, St. Louis, MO, February 2014
- “Exercise: Your Options”, Kirkwood PD Support Group, Kirkwood, MO, June 2014
- Meet the Researcher Mentoring and Networking Session, “Starting in Research” and “Research Career Paths”, World Confederation of Physical Therapy, Singapore, May 2015
- PT Day on Capitol Hill, Washington DC, June 2015
- Collegiate School of Medicine and Bioscience (CSMB) Saturday Scholars Program, Washington University School of Medicine, St. Louis, MO, February 2017
- “Move It! Exercise and Physical Activity are Key to Living Well with Parkinson’s”, in Every Victory Counts: Essential Information and Inspiration for a Lifetime of Wellness with Parkinson’s Disease, Davis Phinney Foundation, March 2017
- Postdoctoral Forum, University of Florida, October 2017
- “Interventions for Parkinson’s Disease”, BJC Neurodegenerative Conditions Course, St. Louis, MO, November 2017
- “The Power of Tango: Dance and Parkinson’s Disease”, Covenant Place, St. Louis, MO, February 2018
- “Nothing To It, But To Do It: Integrating Exercise Into Everyday Life”, OASIS, St. Louis, MO, May 2018
- “Exercise and Parkinson’s: Getting Started and Sticking With It”, APDA Support Groups, Kirkwood & Webster Groves, MO, October 2018
- “Exercise and Physical Activity: Keys to Living Well with Parkinson’s”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, November 2018
- St. Louis Symphony Orchestra Lunch & Learn: Music and Health, March 2021
- Houston Grand Opera Music & Healing Webinar: Parkinson’s, March 2021
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Alton, IL, April 2024
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Cape Girardeau, MO, June 2024
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Kirkwood, MO, June 2024
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, St. Peters, MO, July 2024
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Olivette, MO, July 2024
- “Taking Exercise to Heart: The Importance of Aerobic Activity”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, November 2024