

**Curriculum Vitae**  
**Gammon M. Earhart, PT, PhD, FAPTA**  
**August 6, 2025**

**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:**

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 Movement Science PhD Program	Washington University in St. Louis
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**

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**

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**

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:**

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

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>

2010	Friedman Award for Outstanding Contributions to the Advancement of Geriatric Care, Doris Mae 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 &amp; Rehabilitation</i>
2015	Outstanding Reviewer, <i>Gait &amp; 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 and Awards 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
2025-present	Member, International Consortium for Freezing of Gait (ICFOG)

#### **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:**

- 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

2017	Blue Ribbon Exercise Panel Foundation for Physical Therapy Committee on Research
2018	Boston University College of Health & Rehabilitation Sciences: Sargent College, Academic Program Reviewer
2020	NINDS/NICHD 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)**

R33 AT010753 (PI: Gammon Earhart) NIH/NCCIH/NINDS Sing for Your Saunter: Using Self-Generated Rhythmic Cues to Enhance Gait in Parkinson's Role: PI	2023-2026 \$1,600,000
U01 NS113851 (PI: Daniel Corcos) NIH/NINDS Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3 Role: Site PI	2019-2026 \$18,827,866
R01 NS075321 (PI: Joel Perlmutter) NIH/NINDS Investigations of Dementia in Parkinson Disease Role: Co-Investigator	2016-2026 \$10,554,014
R01 NS097437-06 (PI: Meghan Campbell) NIH/NINDS Parkinson Disease Clinical Subtypes: Validation, Clinical Utility, and Biological Correlates Role: Co-Investigator	2017-2028 \$3,527,771

**Governmental (past)**

F32 NS41804 (PI: Gammon Earhart) NIH National Research Service Award Locomotor Adaptation Following Podokinetic Stimulation Role: Principal Investigator	2002-2004 \$73,740
K01 HD048437 (PI: Gammon Earhart) NIH Mentored Research Scientist Career Development Award Parkinsonian Gait Disorders: Mechanisms and Treatment Role: Principal Investigator	2005-2009 \$494,432
R01 DC04082 (PI: Fay B. Horak) NIH/NIDCD Oregon Health & Science University Adaptation of Spatial Orientation in Locomotion and Posture	2006-2011 \$8,500/year

Role: Co-Investigator

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-Government (current)**

BioSTL (PI: Gammon Earhart)	2024-2026
Assessing Motor Changes in ON vs. OFF Medication States of Parkinson Disease	\$25,000
Role: Principal Investigator	

**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	2006
American Dance Therapy Association (PI: Madeleine Hackney)	\$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) American Parkinson Disease Association Eye Movement Tracking in Parkinson Disease Role: Principal Investigator	2008 \$15,000
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)	2011-2012

Mallinckrodt Institute of Radiology Neurophysiologic Benefits of Tango Dancing versus Treadmill Training in Individuals with Parkinson Disease Role: Principal Investigator	\$10,000
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) 2019  
Washington University Program in Physical Therapy \$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

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

**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, Lecturer, Neuroscience,  
2021-present Module 5: Prevention, Diagnosis & Management of Movement Problems,  
Lecturer, Neurology,  
2023-present Module 7: Practice & Movement, Lecturer, 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  
 2017-2018 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 Christofoletti, PT, MS, PhD  
 PhD in Neuroscience earned in 2010  
 Currently: Adjunct Professor Federal University of Mato Grosso do Sul, Campo Grander, 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 2<sup>nd</sup> 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	<p>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</p>
2008-2012	<p>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</p>
2008-2012	<p>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</p>
2009-2013	<p>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</p>
2009-2011	<p>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</p>
2009-2012	<p>Laura Golden, OTD          OTD Class of 2012, completed her dissertation work, co-mentored by Dr. Erin Foster</p>
2010-2012	<p>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</p>
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, PhD Movement Science Ph.D. earned in 2024 Currently: Clinical Research Associate, Medpace
2021-present	Allison Haussler 4 <sup>th</sup> year Movement Science Ph.D. student 2023-2025 NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995

2025-present Kayla Bell, DPT  
1<sup>st</sup> 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 Rhea Wagh, Philosophy Neuroscience Psychology, Class of 2027

2025-present Matthew Wang, 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 Fehrman, 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, Biochemistry & Molecular Biology Major, Truman State University, ASPIRE Summer Intern

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### Peer-Reviewed Articles

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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.
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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.
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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.
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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.
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21. Hong, M., Perlmuter, J.S., **Earhart, G.M.** (2007) Enhancement of rigidity in Parkinson's disease with activation. *Mov Disord*, 22(8): 1164-1168.
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#### **Books/Chapters**

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#### **Abstracts**

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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.
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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., Perlmuter, 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.

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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. Christofolletti, 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., Girnis, 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. Girnis, 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., Girnis, 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., Girnis, 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. Haussler, 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., Haussler, 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., Girnis, 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., Girnis, 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., Girnis, 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., Porciuncula, 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., Porciuncula, 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.

186. Duncan, R.P., **Earhart, G.M.**, Van Dillen, R., Perlmuter, J.S. (2025) Association Between Psychologic Factors and Chronic Low Back Pain in Parkinson Disease. APTA CSM, Houston, TX.

187. Harrison, E.C., Grossen, S., Tueth, L.E., Haussler, A.M., Rawson, K.S., Campbell, M.C. **Earhart, G.M.** (2025) Imaging your imagination: fMRI to explore the neural mechanisms of

moving to song for people with PD. International Association for Dance Medicine & Science, Las Vegas, NV.

188. Haussler, A.M., Baudendistel, S.T., Tueth, L.E. **Earhart, G.M.** (2025) Exploring behavior, motivation, and barriers to exercise in Parkinson disease. University of Florida Neuromuscular Plasticity Symposium, Gainesville, FL.

189. Garinis, A.C., Peterka, R.J., Lee, J., Burns, A., Rubenstein, R.C., **Earhart, G.M.**, Puterman, D., Vachhani, J., Sonstroem, A., Hungerford, M., Nadeau, J., Mikail, I. Hullar, T.\* & King, L\*. (2025) Balance and Mobility Deficits in Persons with Cystic Fibrosis: Neural Mechanisms and Physical Manifestations. North American Cystic Fibrosis Conference, Seattle, WA.

**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
38. "The Movement Advantage: Living Well with Parkinson's Through Exercise and Physical Activity", American Parkinson Disease Association Midwest Parkinson Conference, May 2025

**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>
- Ultimate Guide to Developing Leaders by John Maxwell, Discussion Leader, Washington University School of Medicine, 2025

**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, 2025
- 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, 2023
- World Parkinson Congress, 2006, 2010, 2013, 2016, 2023
- 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, 2024
- 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, 2023
- 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
- Unprofessional Behaviors & Retaliation Workshop, WashU Medicine, September 2024
- Leading For Trust & Psychological Safety Workshop, WashU Medicine, December 2024
- Stay Interviews Workshop, WashU Medicine, December 2024
- Leading the Organization in Times of Change, WashU Medicine, April 2025
- The Coaching Mindset for Change, WashU Medicine, April 2025
- Leading Effectively in Times of Transformation, WashU Medicine, July 2025

#### **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>](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
- “Research is Better with a Team!”, written by Leah Noble, BS candidate, Lindenwood University, 2024 Institute for Public Health Summer Research Program, July 2024  
<https://publichealth.wustl.edu/research-is-better-with-a-team/>
- “Advancements in Parkinson’s Disease Treatment”, APTA Magazine, October 2024
- “Physical Therapy is the Best-kept Secret in Health Care”, Associated Press, December 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”, 4<sup>th</sup> 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
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Rolla, MO, September 2024
- “Exercise: Fact or Fiction?”, APDA Parkinson Support Group, Edwardsville, IL, November 2024
- “Taking Exercise to Heart: The Importance of Aerobic Activity”, article in American Parkinson Disease Association St. Louis Parkinson Newsletter, November 2024