

**PRUDENCE PLUMMER, PhD**  
Professor  
Department of Physical Therapy  
MGH Institute of Health Professions  
Email: [pplummer@mghihp.edu](mailto:pplummer@mghihp.edu)  
(she/her/hers)

## **EDUCATION**

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La Trobe University, School of Physiotherapy	2000-2004
<b>Doctor of Philosophy</b>	
<i>Thesis:</i> Physiotherapy assessment of unilateral neglect: psychometric testing and clinical decision making	
<i>Supervisors:</i> Meg E. Morris, PhD; Judith Dunai, PhD	
Swinburne University of Technology	2000
<b>Graduate Certificate in Health Statistics</b>	
La Trobe University, School of Physiotherapy	1996-2000
<b>Bachelor of Physiotherapy (First Class Honors)</b>	
<i>Thesis:</i> Effect of direction of covert attentional shift of speed of response to visual stimuli within perceived three-dimensional moving objects	
<i>Supervisors:</i> Judith Dunai, PhD; Kerry Bennett, PhD	
La Trobe University, School of Occupational Therapy	1994-1996
<b>Bachelor of Occupational Therapy Candidate</b>	
Degree not completed – transfer to Bachelor of Physiotherapy	

## **POSTDOCTORAL TRAINING**

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<b>University of California Los Angeles</b> , Department of Neurology	2006-2008
<i>Mentor:</i> Bruce H. Dobkin, MD	
<b>University of Florida</b> , Brooks Center for Rehabilitation Studies	2004-2006
<i>Mentors:</i> Andrea L. Behrman, PhD; Pamela W. Duncan, PhD	

## **CERTIFICATES AND LICENSURE**

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Multiple Sclerosis Certified Specialist, Consortium of Multiple Sclerosis Centers	2021-pres
Certification in Expanded Disability Status Scale in Multiple Sclerosis	2020-pres
Physical Therapist, Commonwealth of Massachusetts (#24560)	2019-pres
Physical Therapist, North Carolina (#15999)	2015-2021

## ACADEMIC APPOINTMENTS

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Research Associate Harvard Medical School Cambridge, MA	2022-pres
Research Associate PM&R Stroke Research Institute Spaulding Rehabilitation Network Boston, MA	2020-pres
Professor MGH Institute of Health Professions School of Health and Rehabilitation Sciences Department of Physical Therapy Boston, MA	2019-pres
Associate Professor (tenured) The University of North Carolina at Chapel Hill Department of Allied Health Sciences, Division of Physical Therapy School of Medicine Chapel Hill, NC	2017-2019
Adjunct Professor The University of North Carolina at Chapel Hill Department of Exercise and Sport Science College of Arts and Sciences Chapel Hill, NC	2013-2019
Assistant Professor (tenure track) The University of North Carolina at Chapel Hill Department of Allied Health Sciences, Division of Physical Therapy School of Medicine Chapel Hill, NC	2013-2016
Assistant Professor (tenure track) Northeastern University, Department of Physical Therapy Bouvé College of Health Sciences Boston, MA	2008-2013
SIRROWS Study Coordinator University of California Los Angeles Department of Neurology School of Medicine Los Angeles, CA	2006-2009
Postdoctoral Research Assistant National Stroke Research Institute Heidelberg, VIC, Australia	2003-2004

Research Physiotherapist La Trobe University, School of Physiotherapy Bundoora, VIC, Australia	2003
Instructor (sessional) La Trobe University School of Physiotherapy Bundoora, VIC, Australia	2000-2003

## **HONORS AND AWARDS**

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Excellence in Research Mentoring Award, MGH Institute of Health Professions	2022
Annual Volunteer Award (Health Professional), National Multiple Sclerosis Society	2019
Junior Faculty Development Award, University of North Carolina at Chapel Hill	2015
Faculty speaker (elected), Department of Physical Therapy Pinning and Hooding Ceremony	2011
Nominated for Excellence in Teaching Award, Northeastern University	2011
Kenerson Faculty Scholarship Award, Northeastern University	2010
Graduate Research Prize, Faculty of Health Sciences, La Trobe University	2004
Felice Rosemary Award Trust Fund Scholarship	2003
Physiotherapy Research Foundation Research Prize (Australia)	1999
Australian Physiotherapy Association Research Prize	1999
Australian Postgraduate Award (scholarship for pursuit of PhD)	1999-2003

### **Mentored Student/Postdoctoral Trainee Awards:**

Jody Feld, PhD, PT, DPT, Horizon Award, The Graduate School, University of North Carolina at Chapel Hill	2020
Jody Feld, PT, DPT, Philanthropic Educational Organization (PEO) Scholar Award	2018
Jody Feld, PT, DPT, Summer Research Fellowship Award University of North Carolina at Chapel Hill	2017
Jody Feld, PT, DPT, NCS, Student Research Ambassador Award Department of Allied Health Sciences, University of North Carolina at Chapel Hill	2017
Jody Feld, PT, DPT, NCS Promotion of Doctoral Studies (PODS) II Scholarship Foundation for Physical Therapy	2017
Jody Feld, PT, DPT, NCS, Promotion of Doctoral Studies (PODS) I Scholarship Foundation for Physical Therapy	2016
Lisa Zukowski, PhD, Postdoctoral Scholar Travel Award, University of North Carolina at Chapel Hill	2016
Lisa Zukowski, PhD, Society for Neuroscience Trainee Professional Development Award	2016

## GRANTS

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### Current

MB-2307-41750 (Plummer)	07/2024-06/2029
National Multiple Sclerosis Society	
<i>Training rehabilitation scientists in multiple sclerosis</i>	
Role: Principal Investigator (5% effort, primary mentor)	
Total costs: \$481,685	
Direct costs: \$437,896	
Helius Medical Technologies, Inc. (Plummer)	5/2024-12/2024
<i>Portable Neuromodulation Stimulator (PoNS®) Therapy for Gait and Balance Deficits in Chronic Stroke Survivors: A Single Arm Study</i>	
Role: Site Principal Investigator	
Total costs to site PI: \$45,000	
RFA-2301-40779 (Plummer)	10/2023-09/2026
National Multiple Sclerosis Society	
<i>Dalfampridine combined with physical therapy for mobility impairment in people with multiple sclerosis</i>	
Role: Principal Investigator (20% effort)	
Total costs: \$725,913	
Direct costs: \$659,921	
MGH Institute of Health Professions (Schliep)	09/2023-08/2024
Tedy's Team Stroke Rehab Scholars, Mentored Research Awards in Stroke Rehabilitation	
<i>Identifying the moderating roles of psychological, physical activity, and communication factors on fall status after stroke using ecological momentary assessment</i>	
Role: Mentor (in-kind effort)	
Total costs: \$14,990	
Helius Medical Technologies, Inc. (Plummer)	11/2022-10/2024
<i>A therapeutic experience program (TEP) study assessing adherence to on-label PoNS® therapy for improvement in gait in people with multiple sclerosis in a real-world setting</i>	
Role: Site Principal Investigator	
Total costs to Site PI: \$21,136	
Direct costs: \$18,200	

## Pending

1 R21 NS141006-01 (Plummer) National Institutes of Health <i>Sensorimotor mechanisms of fatigue in multiple sclerosis</i> Role: Principal Investigator (15% effort) Total costs: \$445,500 Direct costs: \$275,000	10/2024-09/2026
R21 (Wood) National Institutes of Health <i>Persistent symptoms and functional decline in cancer survivors</i> Role: Co-investigator (10% effort) Total costs to site PI: \$65,664 Direct costs: \$40,533	10/2024-09/2026

## Completed

MS-1610-36999 (Backus, Motl) Patient-Centered Outcomes Research Institute <i>Comparative effectiveness of an exercise intervention delivered via telerehabilitation and conventional mode of delivery</i> Role: Co-investigator, Site Principal Investigator (15% effort) Total costs: \$5,638,136 Total costs to Site PI contract: \$228,797 Direct costs: \$163,426	01/2018-02/2024
NSF 1840131 (Fuchs, Frahm, Plummer, Williams) National Science Foundation <i>Enhancing human capabilities through virtual personal embodied assistants in self-contained eyeglasses-based AR systems</i> Role: Co-Principal Investigator (4% effort) Total costs: \$2,190,000	08/2018-08/2021
550KR191816 NC TraCS Grant (Plummer) North Carolina Translational and Clinical Sciences Institute <i>Development of a discharge risk assessment for future falls and inactivity in subacute stroke</i> Role: Principal Investigator Total costs: \$50,000	11/2018-10/2019
ASNR Seed Funding (Plummer) American Society of Neurorehabilitation <i>Stakeholder engagement to inform the design of a comparative effectiveness study of treatment options for walking difficulties in multiple sclerosis</i> Role: Principal Investigator Total costs: \$5,000	11/2016-11/2018
1R56AG054797-01A1 (Franz) National Institute of Health, National Institute on Aging	09/2017-08/2018

*The sensorimotor locus of balance control in elderly gait*

Role: Co-investigator (9% effort)

Total costs: \$227,738

Direct costs: \$150,000

PP-1503-03495 (Plummer)

10/2015-09/2017

National Multiple Sclerosis Society

*Combining dalfampridine and physical therapy for gait rehabilitation in multiple sclerosis*

Role: Principal Investigator (10% effort)

Total costs: \$43,805

Direct costs: 40,000

1R21HD076157-01A1 (Plummer)

08/2014-07/2017

National Institute of Health, The Eunice Kennedy Shriver National Institute of Child Health and Human Development

*Real world assessment of dual-task performance after stroke*

Role: Principal Investigator (30% effort)

Total costs: \$434,752

Direct costs: \$275,000

2KR801612 NC TraCS Pilot Award (Zukowski)

07/2016-06/2017

North Carolina Translational and Clinical Sciences Institute

*Falls in older adults: exploring interactions between gait, gaze behavior, and cognition*

Role: Co-investigator, Mentor

Total costs: \$2,000

2KR741503 NC TraCS Pilot Award (Franz)

02/2016-01/2017

North Carolina Translational and Clinical Sciences Institute

*Visuomotor entrainment and the control of balance in elderly gait*

Role: Co-Investigator

Total costs: \$2,000

11SDG7270001 (Plummer)

07/2011-06/2016

American Heart Association, Scientist Development Grant

*Training dual-task walking after stroke: effects on attentional and locomotor control*

Role: Principal Investigator (25% effort)

Total costs: \$308,000

Direct costs: \$280,000

Junior Faculty Development Award

2015

The University of North Carolina at Chapel Hill

*The effect of environment and cognitive load on gait in people with multiple sclerosis*

Role: Principal Investigator

Total costs: \$7,500

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2012-2013

Northeastern University

*Effects of gait and cognitive task difficulty on cognitive-motor interference in aging*

Role: Principal Investigator, Faculty mentor

Total costs: \$1,000

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2011-2012

Northeastern University

*Comparison of dual-task and single-task gait training after stroke: a case series*

Role: Principal Investigator, Faculty mentor

Total costs: \$1,100

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2010-2011

Northeastern University

*Assessing the effects of dual task gait training on community participation after stroke*

Role: Principal Investigator, Faculty mentor

Total costs: \$2,000

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2010-2011

Northeastern University

*Effect of cognitive-motor interference and environment on participation in community-dwelling individuals with stroke*

Role: Principal Investigator, Faculty mentor

Total costs: \$2,572

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2010-2011

Northeastern University

*Effects of task difficulty on cognitive-motor interference*

Role: Principal Investigator, Faculty mentor

Total costs: \$2,775

Kenerson Faculty Scholarship Award (Plummer)

2010-2011

Bouvé College of Health Sciences, Northeastern University

*Pilot study of dual-task gait training after stroke*

Role: Principal Investigator

Total costs: \$3,000

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2010

Northeastern University

*Evaluation of cognitive-motor interference in community-dwelling individuals with stroke*

Role: Principal Investigator, Faculty mentor

Total costs: \$1,662

Undergraduate Research Program Grant (Faculty mentor: Plummer)

2010

Northeastern University

*Dual task training in older adults*

Role: Principal Investigator, Faculty mentor

Total costs: \$1,615

Undergraduate Research Program Grant (Faculty mentor: Plummer) Northeastern University <i>Pilot study of dual task gait training after stroke</i> Role: Principal Investigator, Faculty mentor Total costs: \$1,000	2009-2010
Proposal Development Grant (Plummer) Northeastern University, Bouvé College of Health Sciences <i>Cognitive-motor interference during gait in community-dwelling individuals with stroke</i> Role: Principal Investigator Total costs: \$5,000	2009-2010
Undergraduate Research Program Grant (Faculty mentor: Plummer) Northeastern University <i>Age-related differences in dual task effects of spontaneous speech and executive function in healthy young and older adults</i> Role: Principal Investigator, Faculty mentor Total costs: \$1,000	2009-2010
Undergraduate Research Program Grant (Faculty mentor: Plummer) Northeastern University <i>Interactions between cognitive processes and gait in healthy young and older adults</i> Role: Principal Investigator, Faculty mentor Total costs: \$1,635	2008-2009
Postgraduate Support Grant (Plummer) La Trobe University, Faculty of Health Sciences <i>Physiotherapy assessment of unilateral neglect following stroke: the effects of structured guidelines on clinical decisions</i> Role: Principal Investigator Total costs: \$417	2002
Postgraduate Support Grant (Plummer) La Trobe University, Faculty of Health Sciences <i>Physiotherapy assessment of unilateral neglect following stroke: identifying the processes</i> Role: Principal Investigator Total costs: \$492	2001
Faculty Research Grant (Morris) La Trobe University, Faculty of Health Sciences <i>Investigation of moving visual cues in patients with unilateral neglect after stroke</i> Role: Co-Principal Investigator Total costs: \$10,000	2002-2003
Postgraduate Support Grant (Plummer) La Trobe University, Faculty of Health Sciences	2000

*Movement rehabilitation in stroke patients with visuospatial neglect: the effects of visual cues and active movement*

Role: Principal Investigator

Total costs: \$500

Publication Grant (Plummer) 2000

La Trobe University, Faculty of Health Sciences

*Physical therapy for stroke patients with unilateral neglect: the role of visual cues and limb activation strategies*

Role: Principal Investigator

Total costs: \$430

## PUBLICATIONS

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[†denotes student/postdoc author mentored by PP; §denotes significant contribution when not first/senior author; underline denotes senior author]

### Refereed Articles

1. **Plummer P**, Schliep M, Jallad L, Sinaei E, Feld JA, Mercer VS. Optimizing obstacle-crossing parameters for predicting fall status after hospital discharge in ambulatory stroke survivors. *Topics in Stroke Rehabilitation*. (Under Review)
2. Motl R, Neal W, Backus D, Hebert J, Ng A, Lowman J, Bethoux F, Schmidt H, McBurney R, McCully K, **Plummer P**, Cutter G. Do levels of middle-range scores from the Patient Determined Disease Steps scale reflect worsening degrees of walking dysfunction in multiple sclerosis? *Multiple Sclerosis and Related Disorders*. (Under review)
3. Swink LA, So N, Nearing KA, Juarez-Colunga E, **Plummer P**, Schmid AA, Christiansen CL. Exploring dual-task performance relationships for Veterans with lower-limb amputation. *Clinical Rehabilitation*. (Under review)
4. Rose DK, Weinstein CJ, Lewek MD, **Plummer P**, Lin DJ, Roberts H, Raghavan P, Taylor SR, Smayda K, O'Dell M. Multidisciplinary Delphi panel on rehabilitation approaches and unmet needs for chronic stroke walking impairment and the role of rhythmic auditory stimulation. *Cureus*. (Under review)
5. Feldpausch J, **Plummer P**, Abou-Rass Z, Fritz N. Characterizing fatigue by MS subtype and determining validity of a fatigue scale specific to persons with progressive MS. *International Journal of MS Care*. (In press, 9 June 2024)
6. Motl R, **Plummer P**, Backus D, Hebert J, Neal W, Ng A, Lowman J, Bethoux F, Schmidt H, McBurney R, McCully K, Cutter G. Validation of scores from a telephone administered Multiple Sclerosis Walking Scale-12 in persons with multiple sclerosis. *Multiple Sclerosis and Related Disorders*. 2024 Aug;88:105715. doi: 10.1016/j.msard.2024.105715.
7. Smith R<sup>†</sup>, Schliep M, **Plummer P**. Perceptions of cognitive-communication and mobility recovery among stroke survivors with and without aphasia. *Advances in Rehabilitation Science and Practice*. 2024 Mar 21:13:27536351241237865. doi: 10.1177/27536351241237865.
8. Abou-Rass Z, Feldpausch J, **Plummer P**, Fritz N. The impact of COVID-19 on fatigue in multiple sclerosis. *International Journal of MS Care*. 2024;26:149-154.

9. **Plummer P**, Stewart A<sup>†</sup>, Anderson JN<sup>†</sup>. Patient and clinician perspectives of physical therapy for walking difficulties in multiple sclerosis. *Multiple Sclerosis International*. 2023;Vol 2023:1121051. doi: 10.1155/2023/1121051.
10. Zukowski LA<sup>†</sup>, Brinkerhoff SA, Iyigun G, Roper JA, Giuliani CA, **Plummer P**. Fall history in older adults impacts acceleration profiles after a near collision with a moving pedestrian hazard. *Aging Clinical and Experimental Research*. 2023;35(3):621-631. doi: 10.1007/s40520-023-02345-7.
11. **Plummer P**, Feld JA<sup>†</sup>, Mercer VS, Ni P. Brief composite mobility index predicts post-stroke fallers after hospital discharge. *Frontiers in Rehabilitation Sciences*. 2022;3:979824. doi:10.3389/fresc.2022.979824
12. Feld JA<sup>†</sup>, Goode AP, Mercer VS, **Plummer P**. Utility of an obstacle-crossing test to classify future fallers and non-fallers at hospital discharge after stroke: A pilot study. *Gait & Posture*. 2022;96:179-184. doi: 10.1016/j.gaitpost.2022.05.037.
13. **Plummer P**, Markovic-Plese S, Giesser B. Dalfampridine for mobility limitations in people with multiple sclerosis may be augmented by physical therapy: a non-randomized two-group proof-of-concept pilot study. *Frontiers in Rehabilitation Sciences*. 2022;2:795306. doi: 10.3389/fresc.2021.795306.
14. Maquire R, Hynes S, Seebacher B, Block VJ, Zackowski K, Jonsdottir J, Finlayson M, **Plummer P**, Freeman J, Giesser B, von Geldern G, Ploughman M. Research interrupted: The impact of the COVID-19 pandemic on multiple sclerosis research in the field of rehabilitation and quality of life. *Multiple Sclerosis Journal: Experimental, Translational, and Clinical*. 2021, July-September, 1-6. doi: 10.1177/20552173211038030.
15. Eustis H<sup>†</sup>, **Plummer P**. Self-efficacy training as an adjunct to exercise in a person with progressive multiple sclerosis: A case report. *Physiotherapy Theory and Practice*. 2021;Jun 3:1-10. doi: 10.1080/09593985.2021.1934921.
16. Zukowski LA<sup>†</sup>, Tennant JE, Iyigun G<sup>†</sup>, Giuliani CA, **Plummer P**. Dual-tasking impacts gait, cognitive performance, and gaze behavior during walking in a real-world environment on older adult fallers and non-fallers. *Experimental Gerontology*. 2021 Jul 15;150:111342. doi: 10.1016/j.exger.2021.111342.
17. **Plummer P**, Zukowski LA<sup>†</sup>, Feld JA<sup>†</sup>, Najafi B. Cognitive-motor dual-task gait training within 3 years after stroke: A randomized controlled trial. *Physiotherapy Theory and Practice*. 2021;18:1-16. doi: 0.1080/09593985.2021.1872129.
18. Feld JA<sup>†</sup>, **Plummer P**. Patterns of cognitive-motor dual-task interference at hospital discharge post stroke. *European Journal of Physical & Rehabilitation Medicine*. 2021 Jun;57(3):327-336. doi: 10.23736/S1973-9087.20.06273-5.
19. **Plummer P**, Altmann LJP, Feld JA<sup>†</sup>, Zukowski LA<sup>†</sup>, Najafi B, Giuliani C. Attentional prioritization in dual-task walking: effects of stroke, environment, and instructed focus. *Gait & Posture*. 2020;79:3-9.
20. Zukowski LA<sup>†</sup>, Iyigun G<sup>†</sup>, Giuliani CA, **Plummer P**. Effect of the environment on gait and gaze behavior in older adult fallers compared to older adult non-fallers. *PLoS One*. 2020;15(3):e0230479.
21. Richards JT, Selgrade BP, Qiao M, **Plummer P**, Wikstrom EA, Franz JR. Time-dependent tuning of balance control and aftereffects following optical flow perturbation training in older adults. *Journal of Neuroengineering and Rehabilitation*. 2019;16(1):81. doi: 10.1186/s12984-019-0555-3.

22. Motl R, Backus D, Neal WN, Cutter G, Palmer L, McBurney R, Schmidt H, Bethoux F, Hebert J, Ng A, McCully K, **Plummer P**. Rationale and design of the STEP for MS trial: Comparative effectiveness of Supervised versus Telerehabilitation Exercise Programs for Multiple Sclerosis. *Contemporary Clinical Trials*. 2019;81:110-122.
23. Zukowski LA<sup>†</sup>, Feld JA<sup>†</sup>, Giuliani CA, **Plummer P**. Relationships between gait variability and ambulatory activity after stroke. *Topics in Stroke Rehabilitation*. 2019;26:1-6.
24. Lynall RC, Blackburn T, Guskiewicz K, Marshall SW, **Plummer P**, Mihalik JP. Functional balance assessment in recreational college-aged individuals with a concussion history. *Journal of Science and Medicine in Sport*. 2019;22(5):503-508.
25. Feld JA<sup>†</sup>, **Plummer P**. Visual scanning behavior during distracted walking in healthy young adults. *Gait & Posture*. 2019;67:219-223.
26. Thompson J, **Plummer P**, Franz JR. Age and falls history effects on antagonist leg muscle coactivation during walking with optical flow perturbations. *Clinical Biomechanics*. 2018;59:94-100.
27. **Plummer P**, Iyigun G<sup>†</sup>. Effects of physical exercise interventions on gait-related dual-task interference after stroke: a systematic review and meta-analysis. *Archives of Physical Medicine and Rehabilitation*. 2018;99:2548-2560.
28. **Plummer P**, Bohling CJ<sup>†</sup>, Nickles LE<sup>†</sup>, Williams AA<sup>†</sup>, Thomas A, Markovic-Plese S, Giesser B. Case report: Combining dalfampridine with multicomponent exercise and gait training in a person with multiple sclerosis: a case report. *International Journal of MS Care*. 2018;20:238-243.
29. Feld JA<sup>†</sup>, Zukowski LA<sup>†</sup>, Howard AG, Giuliani CA, Altmann LJP, Najafi B, **Plummer P**. Relationship between dual-task gait speed and walking activity post stroke. *Stroke*. 2018;49:1296-1298.
30. Lynall RC, Blackburn T, Guskiewicz K, Marshall SW, **Plummer P**, Mihalik JP. Reaction time and joint kinematics during functional movement in recently concussed individuals. *Archives of Physical Medicine and Rehabilitation*. 2018;49(5):880-886.
31. **Plummer P**. Focus group methodology. Part 2: Considerations for analysis. *International Journal of Therapy and Rehabilitation*. 2017;24(8):345-351. (Invited update, originally published in 2008)
32. **Plummer P**. Focus group methodology. Part 1: Design considerations. *International Journal of Therapy and Rehabilitation*. 2017;24(7):297-301. (Invited update, originally published in 2008)
33. Zukowski LA<sup>†</sup>, Martin JM<sup>†</sup>, Scronce G<sup>†</sup>, Lewek MD, **Plummer P**. The influence of cognitive load on metabolic cost of transport during over-ground walking in healthy, young adults. *European Journal of Applied Physiology*. 2017;117(4):679-686.
34. Lynall RC<sup>†</sup>, Zukowski LA<sup>†</sup>, **Plummer P**, Mihalik JP. Reliability and validity of the Protokinetics Movement Analysis Software in measuring center of pressure during walking. *Gait & Posture*. 2017;52:308-311.
35. **Plummer P**. Critical appraisal of evidence for improving gait speed in people with multiple sclerosis: dalfampridine versus gait training. *International Journal of MS Care*. 2016;18(3):105-15.

36. **Plummer P**, Eskes G. Measuring treatment effects on dual-task performance: a framework for research and clinical practice. *Frontiers in Human Neuroscience*. 2015;9:225. DOI: 10.3389/fnhum.2015.00225.
37. **Plummer P**, Grewel G, Najafi B, Ballard A<sup>†</sup>. Instructions and skill level influence reliability of dual-task performance in young adults. *Gait & Posture*. 2015;41:964-967.
38. **Plummer P**, Zukowski LA<sup>†</sup>, Giuliani C, Hall AM, Zurakowski D. Effects of physical interventions on gait-related dual-task interference in older adults: a systematic review and meta-analysis. *Gerontology*. 2015;62(1):94-117.
39. **Plummer P**, Apple S<sup>†</sup>, Dowd C<sup>†</sup>, Keith E<sup>†</sup>. Texting and walking: effect of environmental setting and task prioritization on dual-task interference in healthy young adults. *Gait & Posture*. 2015;41:46-51.
40. **Plummer P**, Villalobos RM, Vayda MS, Moser M, Johnson E. Feasibility of dual-task gait training for community-dwelling adults post-stroke: a case series. *Stroke Research and Treatment*. 2014, Article ID 538602, 12 pages, DOI: 10.1155/2014/538602.
41. **Plummer P**, Eskes G, Wallace S, Fraas M, Guiffrida C, Campbell G, Clifton K, Skidmore ER. Cognitive-motor interference during functional mobility after stroke: State of the science and implications for research. *Archives of Physical Medicine and Rehabilitation*. 2013;94:2565-2574.
42. **Plummer-D'Amato P**, Kyvelidou A<sup>†</sup>, Sternad D, Najafi B, Villalobos RM, Zurakowski D. Training dual-task walking in community-dwelling adults within 1 year of stroke: A protocol for a single-blind randomized controlled trial. *BMC Neurology*. 2012;12:129.
43. **Plummer-D'Amato P**, Brancato B<sup>†</sup>, Dantowitz M<sup>†</sup>, Birken S<sup>†</sup>, Bonke C<sup>†</sup>, Furey E<sup>†</sup>. Effects of gait and cognitive task difficulty on cognitive-motor interference in aging. *Journal of Aging Research*. 2012, Article ID 583894, 8 pages, DOI:10.1155/2012/583894.
44. **Plummer-D'Amato P**, Shea G<sup>†</sup>, Dowd C<sup>†</sup>. Motor versus cognitive dual-task effects on obstacle negotiation in older adults. *International Journal of Therapy and Rehabilitation*. 2012;19(4):200-207.
45. **Plummer-D'Amato P**, Cohen Z<sup>†</sup>, Daee NA<sup>†</sup>, Lawson SE<sup>†</sup>, Lizotte MR<sup>†</sup>, Padilla A<sup>†</sup>. Effects of once weekly dual-task training in older adults: a pilot randomized controlled trial. *Geriatrics and Gerontology International*. 2012;12:622–629.
46. **Plummer-D'Amato P**, Altmann LJP. Relationships between motor function and gait-related dual-task interference after stroke: a pilot study. *Gait & Posture*. 2012;35:170-172.
47. **Plummer-D'Amato P**, Altmann LJP, Reilly K. Dual-task effects of spontaneous speech and executive function on gait in aging: Exaggerated effects in slow walkers. *Gait & Posture*. 2011;33:233-237.
48. Tabak R<sup>†</sup> & **Plummer-D'Amato P**. Bilateral movement therapy post stroke: underlying mechanisms and review of evidence for upper extremity rehabilitation. *International Journal of Therapy and Rehabilitation*. 2010;17(1):15-21.
49. **Plummer-D'Amato P**, Altmann LJP, Behrman AL, Marsiske M. Interference between cognition, double limb support, and swing during gait in community-dwelling individuals post stroke. *Neurorehabilitation and Neural Repair*. 2010;24(6):542-549.
50. Dobkin BH, **Plummer-D'Amato P<sup>§</sup>**, Elashoff R, Lee J, SIRROWS Group. International randomized clinical trial, Stroke Inpatient Rehabilitation with Reinforcement of Walking

- Speed (SIRROWS), improves outcomes. *Neurorehabilitation and Neural Repair*. 2010;24(3):235-242.
51. Rogalski Y, Altmann LJP, **Plummer-D'Amato P**<sup>§</sup>, Behrman AL, Marsiske M. Discourse coherence and cognition after stroke: A dual task study. *Journal of Communication Disorders*. 2010;43:212-224.
  52. Cumming T, **Plummer-D'Amato P**<sup>§</sup>, Linden T, Bernhardt J. Hemispatial neglect and rehabilitation in acute stroke. *Archives of Physical Medicine and Rehabilitation*. 2009;9(11):1931-1936.
  53. Canavan P, Cahalin L, Harris M, Lowe S, Fitzpatrick D, **Plummer-D'Amato P**<sup>§</sup>. Managing gait disorders in older persons residing in nursing homes: A review of literature. *Journal of the American Medical Directors Association*. 2009;10:230-237.
  54. Newton JM, Dong Y, Hidler J, **Plummer-D'Amato P**, Marehbian J, Albisteguis-Du Bois R, Woods R, Dobkin B. Reliable assessment of lower limb motor representations with fMRI: Use of an MR compatible device for monitoring torque at ankle, knee and hip joint. *NeuroImage*. 2008;43(1):136-146.
  55. **Plummer-D'Amato P**, Altmann LJP, Saracino D, Fox E, Behrman AL, Marsiske M. Interactions between cognitive tasks and gait after stroke: a dual task study. *Gait & Posture*. 2008;27:683-688.
  56. **Plummer-D'Amato P**. Focus group methodology (part two): considerations for analysis. *International Journal of Therapy and Rehabilitation*. 2008;15(3):123-129.
  57. **Plummer-D'Amato P**. Focus group methodology (part one): considerations for design. *International Journal of Therapy and Rehabilitation*. 2008;15(2):69-73.
  58. **Plummer P**, Behrman AL, Duncan PW, Spigel P, Saracino D, Martin J, Fox, E, Thigpen M, Kautz, SA. Effects of stroke severity and training duration on locomotor recovery after stroke: a pilot study. *Neurorehabilitation and Neural Repair*. 2007;21:137-151.
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#### **Editorials, Letters, Commentaries, Critically Appraised Papers**

[Prue Plummer is a Critically Appraised Paper Editor for the Journal of Physiotherapy, 2014-present]

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2. **Plummer P**. Critically appraised paper: Eccentric resistance training may improve strength and power but not gait in patients with neurological conditions. *Journal of Physiotherapy*. 2024;70(2):151.
3. **Plummer P**. Critically appraised paper: Timing and coordination training does not enhance standard treatment benefit on mobility in community-dwelling older adults. *Journal of Physiotherapy*. 2023;69(2):125.
4. **Plummer P**. Critically appraised paper: Modified constraint-induced movement therapy is probably the most effective non-conventional upper limb intervention post-stroke. *Journal of Physiotherapy*. 2023;69(1):54.
5. **Plummer P**. Critically appraised paper: Fall prevention program delivered electronically to community-dwelling older people can reduce fall rate over 24 months. *Journal of Physiotherapy*. 2022;68(4):279.
6. **Plummer P**. Critically appraised paper: High-intensity interval training after stroke improves some aspects of physical function, but benefits are not sustained. *Journal of Physiotherapy*. 2022;68(3):204.
7. **Plummer P**. Critically appraised paper: Balance training and cognitive-behavioural therapy are most promising for reducing fatigue severity in people with multiple sclerosis. *Journal of Physiotherapy*. 2022;68(2):144.
8. **Plummer P**. Critically appraised paper: Implicit motor learning is not superior to explicit motor learning for improving gait speed in chronic stroke. *Journal of Physiotherapy*. 2021;67(4):311.
9. **Plummer P**. Critically appraised paper: Non-invasive brain stimulation does not enhance the effect of robotic-assisted upper limb training on arm motor recovery after stroke. *Journal of Physiotherapy*. 2021;67(3):218.
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14. **Plummer P.** Critically appraised paper: Combined aerobic and resistance training is superior to usual care for improving some aspects of mobility after stroke. *Journal of Physiotherapy*. 2020;66(2):131.
15. **Plummer P.** Critically appraised paper: Task-oriented gait training that focuses on the safe and correct use of a walking aid may reduce falls in people with multiple sclerosis. *Journal of Physiotherapy*. 2020;66(1):56.
16. **Plummer P.** Critically appraised paper: Unilateral neglect impairs functional recovery but evidence for upper limb interventions in patients with neglect is lacking. *Journal of Physiotherapy*. 2019;65(4):237.
17. **Plummer P.** Critically appraised paper: Group-format dual-task training reduces dual-task interference in simple mobility tasks in people with chronic stroke [synopsis]. *Journal of Physiotherapy*. 2019;65(3):173.
18. **Plummer P.** Critically appraised paper: Exercise interventions improve some walking-related outcomes in people with Parkinson's disease. *Journal of Physiotherapy*. 2019;65(2):108.
19. **Plummer P.** Critically appraised paper: Multidisciplinary inpatient rehabilitation for multiple sclerosis may delay declines in health-related quality of life over 6 month. *Journal of Physiotherapy*. 2019;65(1):52.
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77. **Plummer P**, Morris ME, Dunai J. The effects of stationary and moving visual cues on line bisection performance in people with unilateral neglect following stroke. *14<sup>th</sup> International*

*Congress of the World Confederation of Physical Therapy.* Barcelona, Spain. June 7-12, 2003.

78. **Plummer P**, Morris ME, Dunai J. How do physiotherapists characterise unilateral neglect? *14<sup>th</sup> International Congress of the World Confederation of Physical Therapy.* Barcelona, Spain. June 7-12, 2003.
79. **Plummer P**, Dunai J, Bennett K. A rightward attentional bias for shifting covert attention in a moving object paradigm. *Australian Journal of Psychology.* 2001;53(supplement):64.

## **INVITED PRESENTATIONS**

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1. **Plummer P**. Predicting post-stroke fallers before they fall. *American Physical Therapy Association, Massachusetts Chapter, Neurology Special Interest Group.* May 15, 2024
2. **Plummer P**. Predicting post-stroke fallers at hospital discharge. *University of Southern California, Division of Biokinesiology & Physical Therapy, Neurorehabilitation Seminar.* March 22, 2024.
3. **Plummer P**. Effects of treatments and rehabilitation on clinical and paraclinical measures. *The 9<sup>th</sup> Joint ECTRIMS-ACTRIMS Meeting.* Milan, Italy. October 11-13, 2023.
4. Zukowski LA<sup>†</sup>, Giuliani CA, **Plummer P**. Cognitive load does not impact gaze behavior during walking in a real-world environment in older adult fallers and non-fallers. *Society for Neuroscience.* Chicago, IL. October 19-23, 2019.
5. **Plummer P**. Pharmacological and physical rehabilitation of walking difficulties in multiple sclerosis. *Duke University, Department of Neurology, Duke Center for Research in Autoimmunity and Multiple Sclerosis (DREAMS).* Durham, NC. September 4, 2018. (Invited)
6. Zukowski LA<sup>†</sup>, Feld JA<sup>†</sup>, Drews A, **Plummer P**. Dual-task speed while performing a visuospatial cognitive task is strongly related to gaze behavior during an obstacle crossing task for community-living individuals post stroke. *Society for Neuroscience.* Washington, DC. November 11-15, 2017.
7. Huryta WW<sup>†</sup>, Reynolds JH<sup>†</sup>, Markovic-Plese S, **Plummer P**. Effect of physical therapy with and without dalfampridine on gait in people with multiple sclerosis. *Human Movement Science and Biomechanics Research Symposium.* Chapel Hill, NC. March 31, 2017.
8. Feld JA<sup>†</sup>, Drews A, **Plummer P**. Visual scanning behavior during attention-demanding tasks while walking in healthy young adults. *Human Movement Science and Biomechanics Research Symposium.* Chapel Hill, NC. March 31, 2017.
9. Zukowski LA<sup>†</sup>, Feld JA<sup>†</sup>, Drews A<sup>†</sup>, Fletcher D<sup>†</sup>, Giuliani CA, **Plummer P**. Physical activity is more strongly related to gait variability while walking in a real-world environment than in a lab-based setting for community-living individuals post stroke. *Society for Neuroscience.* San Diego, CA. November 12-16, 2016.
10. Williams AA<sup>†</sup>, Bohling CJ<sup>†</sup>, Nickles E<sup>†</sup>, Markovic-Plese S, Skeen M, Giesser B, **Plummer P**. Dalfampridine combined with physical therapy may improve treatment effects in dalfampridine non-responders with multiple sclerosis: a case study. *Human Movement Science and Biomechanics Research Symposium.* Chapel Hill, NC. March 31, 2016.

11. **Plummer P.** Influence of cognitive decline on functional outcome after stroke. Presented as part of the invited symposium session 'Assessment of cognition in stroke units.' *International Stroke Conference*. Los Angeles, CA. February 17, 2016. (Invited)
12. Feld J<sup>†</sup>, Zukowski LA<sup>†</sup>, Fletcher D<sup>†</sup>, Giuliani C, **Plummer P.** Dual-task walking strongly related to physical activity in the real world in community-dwelling individuals post-stroke. *48<sup>th</sup> Annual UNC Chapel Hill School of Medicine Student Research Day*. November 30, 2015.
13. Zukowski LA<sup>†</sup>, **Plummer P.** Cognitive performance and gait task difficulty are predictors of stride variability during dual-task walking. *Society for Neuroscience*. Chicago, IL. October 17-21, 2015.
14. **Plummer P**, Apple S<sup>†</sup>, Dowd C<sup>†</sup>, Keith E<sup>†</sup>. Attentional prioritization during texting and walking. *Elon University, Department of Physical Therapy*. September 29, 2015. (Invited)
15. Ballard A<sup>†</sup>, Apple S<sup>†</sup>, Dowd C<sup>†</sup>, Keith E<sup>†</sup>, Grewal G, Najafi B, **Plummer P.** Effect of texting while walking on gait in healthy young adults. *Human Movement Sciences Research Symposium*. Chapel Hill, NC. February 22, 2014.
16. Winstein C, **Plummer P**, Dohle C, Lazar R. Barriers to multisite collaborations: A case for Common Data Elements. *American Society of Neurorehabilitation Annual Meeting*. Washington, DC. November 13, 2014.
17. Winstein C, Eskes G, **Plummer P**, Dobkin B, Dromerick A. ASNR Network for Clinical Projects Panel Discussion. *American Society of Neurorehabilitation Annual Meeting*. San Diego, CA. November 8, 2013.
18. Zhang Z, **Plummer P**, Sternad D. Asymmetry in lower extremity coordination during walking in stroke patients. *Society for Neuroscience*. Program No. 649.20/SS4. 2013 Neuroscience Meeting Planner. San Diego, CA. Society for Neuroscience, 2013. Online.
19. Kyvelidou A<sup>†</sup>, Villalobos R, Sternad D, **Plummer-D'Amato P.** The effect of dual-task gait training on obstacle negotiation after stroke: a case study. *Northeastern University Research, Innovation and Scholarship Exposition*. Boston, MA. March 29, 2012.
20. Laskey S<sup>†</sup>, Rivera P<sup>†</sup>, Tapia R<sup>†</sup>, Kyvelidou A<sup>†</sup>, Sternad D, **Plummer-D'Amato P.** Effect of dual-task gait training on attention allocation after stroke: a case report. *Northeastern University Research, Innovation and Scholarship Exposition*. Boston, MA. March 29, 2012.
21. Brancato B<sup>†</sup>, Dantowitz M<sup>†</sup>, **Plummer-D'Amato P.** Locomotor task difficulty influences dual-task interference. *Northeastern University Research, Innovation and Scholarship Exposition*. Boston, MA. March 29, 2012.
22. **Plummer-D'Amato, P.** Differential diagnosis and rehabilitation management of the adult with right hemispheric dysfunction. *Northern California Kaiser Permanente Rehabilitation Symposium*, Oakland, California, USA. May 16, 2009. (Invited Keynote)
23. Rhodes K<sup>†</sup>, **Plummer-D'Amato P**, Giesser B. Effects of locomotor training and a progressive exercise program on perceived impact of MS using the Multiple Sclerosis Impact Scale. *Rosalind Franklin University of Medicine and Science, 4<sup>th</sup> All School Research Consortium*. North Chicago, IL. March 2009.
24. **Plummer P**, Dunai J, Bennett K. Shifting covert attention within and between objects: A rightward bias in healthy subjects. *Center for Neuropsychological Studies, McKnight Brain Institute, University of Florida*, Gainesville, Florida, USA. March 2006. (Invited)

25. **Plummer P**, Duncan PW, Behrman AL. LEAPS Pilot Study Case Presentation – Training and Clinical Outcomes. University of Florida, *Brooks Center for Rehabilitation Studies, Locomotor Training and Recovery Research Retreat*, Gainesville, Florida, USA. January 2005. Invited
26. **Plummer P**, Morris ME, Dunai J. Assessment and characterisation of unilateral neglect: A study of Australian physiotherapists. *Université de Versailles-Saint-Quentin, Service de Rééducation Neurologique, Hôpital Raymond Poincaré*, Garches, France. May 2004.
27. **Plummer P**, Morris ME, Dunai J. The effects of moving visual stimuli on line bisection performance in stroke patients with unilateral neglect. *National Stroke Research Institute*, Melbourne, Australia. March 2003.

## **EDUCATIONAL ACTIVITIES**

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### **COURSES TAUGHT**

**MGH Institute of Health Professions**, Department of Physical Therapy, Boston, MA

PT 850 Capstone Coordinator	2023-pres
PT 700s Neuroanatomy, thread instructor	2021-pres
PT 850 Capstone (project advisor)	2020-pres
PT 603 Fundamentals of Patient/Client Management 3, thread instructor	2020-pres
PT 602 Fundamentals of Patient/Client Management 2, thread instructor	2019-pres
RS 990 Independent Study: Systematic Reviews & Meta-analysis	2023
PT 712 Degenerative Conditions across the Lifespan, lead instructor	2020-2021
PT 603 Fundamentals of Patient/Client Management 3, co-instructor	2019-2020
PT 712 Degenerative Conditions across the Lifespan, co-instructor	2019-2020
PT 700 Seminar, facilitator	2019
HP 818 IMPACT 1: Interprofessional Practice, co-instructor	2019

**The University of North Carolina at Chapel Hill**, Department of Allied Health Sciences, Division of Physical Therapy, Chapel Hill, NC

Research Elective (1-3 credits), Independent study project advisor	2014-2018
MS STEP UP, Director and mentor	2013-2018
Capstone (3 credits), Advisor	2013-2018
Evidence-Based Practice II (4 credits), Course director	2013-2018
PhD Doctoral Seminar (1 credit), Instructor	2013-2015

**Northeastern University**, Department of Physical Therapy, Boston, MA

Neurological Rehabilitation II (3 credits), Course director	2008-2013
Neurological Rehabilitation II Lab (1 credit), Course director	2008-2013
Physical Therapy Project I (3 credits), Faculty mentor/Project advisor	2008-2013
Physical Therapy Project II (3 credits), Faculty mentor/Project advisor	2008-2013
Health Care Research (3 credits), Guest lecturer and recitation leader	2008-2012
Neurological Rehabilitation I Lab (1 credit), Lab instructor	2012

**University of Florida**, Department of Physical Therapy, Gainesville, FL

Neurological Physical Therapy, Guest lecturer	2004-2005
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**La Trobe University**, School of Physiotherapy, Bundoora, Victoria, Australia

Physiotherapy Skills & Anatomy, Instructor	2002-2003
Neurological Physiotherapy, Guest lecturer	2001-2003
Clinical Preparation, Instructor	2000-2003
Professional Practice, Instructor	2000-2003

**EXTERNAL EDUCATIONAL ACTIVITIES TAUGHT**

Regenerative medicine and neurological rehabilitation: Can we do more together? <i>American Physical Therapy Association Combined Sections Meeting Education Session</i> (2-hour course), Houston, TX (Co-speaker)	02/2025 (accepted)
The Pursuit of Work-Life Balance. <i>American Society of Neurorehabilitation</i> (1-hour webinar). <b>(Invited, co-speaker)</b>	05/2023
Developing leaders in multiple sclerosis rehabilitation: An innovative training program embedded in entry-level DPT education. <i>American Physical Therapy Association Education Leadership Conference</i> (2-hour symposium) (Co-speaker), Jacksonville, FL.	10/2018
Dual-task gait training: If, who, when, how? <i>American Physical Therapy Association Combined Sections Meeting Education Session</i> (2-hour course), New Orleans, LA. <b>(Course organizer and co-speaker)</b>	02/2018
Multiple sclerosis in the underserved: Updates in symptomology, pharmacology, and practice. Presented: Status of evidence for mobility rehabilitation in MS. <i>American Physical Therapy Association Combined Sections Meeting Education Session</i> (2-hour course), New Orleans, LA. (Co-speaker)	02/2018
Dual-task interference: Assessment and treatment. <i>New Hanover Hospital</i> (4-hour course), Wilmington, NC. <b>(Invited, speaker)</b>	02/2016
Dual-task interference: definition, measurement, and intervention. <i>American Physical Therapy Association Combined Sections Meeting Educational Session</i> (2-hour course), Anaheim, CA. (Co-speaker)	02/2016
Learn the magic behind successful careers: a course focusing on career development for early career researchers. <i>American Congress of Rehabilitation Medicine Early Career Course</i> (8-hour course), Orlando, FL. <b>(Course organizer/chair).</b>	11/2013
Minimizing on-ice penalties during your early career face-off: a course on grantsmanship and career development for early career researchers (8-hour course), Vancouver, Canada. <b>(Course organizer/chair)</b>	10/2012
Evidence-based practice: key concepts for physical therapists. <i>Spaulding Wellesley Outpatient Physical Therapy Department</i> (1 hour course), Wellesley, MA. <b>(Invited, speaker)</b>	06/2012
Cognitive-motor interference during walking after stroke. <i>New England Rehabilitation Hospital</i> (1-hour course), Woburn, MA. <b>(Invited, speaker)</b>	11/2009

## MENTORING

### Postdoctoral Scholars

Megan Schliep, PhD, CCC-SLP, MPH; MGH Institute of Health Professions Current position: Assistant Professor, MGH Institute of Health Professions	2020-2021
Lisa Zukowski, PhD; University of North Carolina at Chapel Hill Current position: Associate Professor (tenured), High Point University	2014-2017
Gozde Iyigun, PhD, MSc, BSc, Visiting Scholar; University of North Carolina at Chapel Hill Current position: Associate Professor, Eastern Mediterranean University	2016-2017
Anastasia Kyvelidou, PhD; Northeastern University Current position: Assistant Professor, Creighton University	2012-2013

### PhD Candidates (Primary Scientific Advisor)

Meaghan Costello, PT, DPT PhD in Rehabilitation Sciences MGH Institute of Health Professions	starting 9/2024
Ehsan Sinaei, PT PhD in Rehabilitation Sciences MGH Institute of Health Professions, Boston	2022-pres
Lina Jallad, OTL/R PhD in Rehabilitation Sciences MGH Institute of Health Professions, Boston	2021-pres
Jody Feld, PT, DPT Human Movement Sciences Curriculum University of North Carolina at Chapel Hill Current position: Assistant Professor, Duke University	2015-2019

### PhD Dissertation Committees

Amy Maguire, PhD in Rehabilitation Sciences MGH Institute of Health Professions	2023-pres
Derek Liuzzo, Exercise Science-Rehabilitation Science University of South Carolina	2015-2017
Robert Lynall, Human Movement Sciences Curriculum University of North Carolina at Chapel Hill	2014-2016

### PhD Academic Advising

Tabitha Kao, Academic Advisor PhD in Rehabilitation Sciences, MGH Institute of Health Professions	2021-pres
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### Masters Dissertation Committees

Ioanna Gouzos, Speech-Language Pathology MGH Institute of Health Professions	2022-2023
Rhiannon Smith, Speech-Language Pathology MGH Institute of Health Professions	2021-2022
Rob Cavanaugh, Speech-Language Pathology, University of North Carolina at Chapel Hill	2014-2015

## Faculty Mentoring

Karen Chenausky, PhD, CCC-SLP	2024-pres
Assistant Professor, MGH Institute of Health Professions	
Role: Faculty mentor (Mentorship Academy)	
Rebecca Pham, PT, DPT	2023-pres
Instructor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Gwendolyn Larsen, PT, DPT	2023-pres
Instructor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Megan Schliep, PhD, CCC-SLP, MPH	2021-pres
Assistant Professor, MGH Institute of Health Professions	
Role: Faculty mentor	
Donna Applebaum, PT, DPT, MS	2021-pres
Assistant Professor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Rania Karim, PT, DPT	2021-pres
Assistant Professor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Maninder Kaur, PhD, PT	2021-pres
Assistant Professor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Ben Adams, PhD, PT, MGH Institute of Health Professions	2022-2023
Assistant Professor	
Role: Scholarship mentor	
Monica Arrigo, PT, DPT	2021-2023
Instructor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Caitlin Fitzgerald, PT, DPT	2021-2023
Assistant Professor, MGH Institute of Health Professions	
Role: Scholarship mentor	
Perman Gochyyev, PhD, MGH Institute of Health Professions	2020-2021
Assistant Professor	
Role: Onboarding faculty mentor	

## Doctor of Physical Therapy Capstone Project Mentor

### ***MGH Institute of Health Professions, Boston, MA***

Amy Francis, Johnathon Martinez, Jonathan Ward	2023-2024
<i>Visual attention during distracted walking</i>	
Josephine Nguyen, Marina Rubin, Adriana Santoro	2022-2023
<i>Therapeutic effects of physical therapy in relapsing-remitting and progressive multiple sclerosis</i>	
Shanjida Alam, Angelo Stefani, Sarah Su	2022-2023
<i>Visual attention during distracted walking</i>	

Allison Lebwirth, Toni Kane, Andrew Marzan, Nicole Strong <i>Rehabilitation efficacy in different multiple sclerosis phenotypes</i>	2021-2022
JiSu Lim, Aileen Reginaldo, Erika Thorne <i>Prediction of falls after stroke</i>	2021-2022
Alexander Chau, Brandon Hong, Melissa Gordon-Wollin <i>Assessing visual attention during distracted walking: questions, instrumentation, and methodology</i>	2020-2021
Charlotte Bleiler, Danielle Muniz, Vuong Tran <i>Therapeutic effects of physical therapy in relapsing-remitting and progressive multiple sclerosis</i>	2020-2021

***University of North Carolina at Chapel Hill, Chapel Hill, NC***

Jessica Anderson, Andrea Stewart <i>Treatment options for walking difficulties in MS: patient and provider perspectives</i>	2017-2018
Corinne Bohling, Ellese Nickles, Alexis Williams (2016-2017) Jessica Hancox, Whitney Wilson (2015-2016) <i>Combining dalfampridine and physical therapy for gait rehabilitation in multiple sclerosis: pilot study</i>	2015-2017
Heather Eustis <i>Effects of an 8-week self-efficacy plus exercise intervention on physical activity, quality of life, and fatigue in an individual with progressive MS</i>	2014-2015
Joseph Miller <i>Testing the feasibility of an online wellness program for individuals with MS</i>	2014-2015
Catherine Jacobs, Audrey Osinski <i>Wellness for people with multiple sclerosis</i>	2013-2014

***Northeastern University, Boston, MA***

Sarah Apple, Colleen Dowd, Eliza Keith <i>Texting and walking: effects of task prioritization and environmental setting on dual-task interference</i>	2012-2013
Briana Brancato, Mallory Dantowitz <i>Effects of task difficulty on cognitive-motor interference</i>	2011-2012
Sarah Laskey, Patrick Rivera, Ramon Tapia <i>Training dual-task walking after stroke</i>	2011-2012
Madeline Powers, Amy Stokes, Dana Vered <i>Effect of cognitive-motor interference and environment on participation in community-dwelling individuals with stroke</i>	2010-2011

Stephanie Birken, Christina Bonke, Erin Furey <i>Effects of task difficulty on cognitive-motor interference</i>	2010-2011
Laura Hennessy, Joy Huebner, Jacqueline Reinschmidt <i>Pilot study of dual task gait training after stroke</i>	2009-2010
Zachary Cohen, Nadia Daee, Sarah Lawson, Marissa Lizotte, Anna Padilla <i>Dual task gait training in community-dwelling older adults</i>	2009-2010
Brendan Strem <i>Cognitive-motor interference during gait in community-dwelling individuals with stroke</i>	2009-2010
Jared Lewis <i>Cognitive-motor interference during walking after stroke: a longitudinal investigation</i>	2009-2010
Alexandra Alicea, Steven Buehring, Whitney Lacroix, Kaitlyn Quigley, Nichole Tiegen <i>Interactions between cognitive processes and gait in older adults</i>	2008-2009

### **Research Internship Supervisor**

Jami Snow, MGH Institute of Health Professions	2023-2024
Yang Xu, MGH Institute of Health Professions	2022-2023
Kristen Rhodes, University of California Los Angeles	2008
Daniel Kozman, University of California Los Angeles	2007
Henrik Ullman, University of California Los Angeles	2007
Diana Mok, University of California Los Angeles	2006
Jennifer Corso, University of Florida	2005

### **Multiple Sclerosis Scholar Advising, University of North Carolina at Chapel Hill**

[P. Plummer was program director of the Multiple Sclerosis Scholarship and Learning Track at UNC 2013-2019]

Amy Collins, Amelia Cain	2018-2019
Spencer Edgerton, Elise Widman	2017-2019
Jessica Anderson, Andrea Stewart	2016-2018
Jessica Hancox, Whitney Wilson	2015-2017
Corinne Bohling, Alexis Williams	2014-2016
Heather Eustis, Joseph Miller	2013-2015
Catherine Jacobs, Audrey Osinski	2013-2014

### **PROFESSIONAL DEVELOPMENT**

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Consortium of Multiple Sclerosis Centers Annual Meeting	2024
RECON (Research Conversations), 1-hour weekly scientific discussion	2021-pres
Mental Health and Well-being of Biomedical Researchers Webinar: Burnout in Biomedical Researchers (1.25 hours), Office of Intramural Training & Education, National Institutes of Health	2024

Mentorship Academy, MGH Institute of Health Professions	2024
Novel Study Hall: Narrative Writing Techniques (6 x 3-hour sessions), Grub Street Writing Center	2023
LeaRRn Health Systems Leadership Forum, selected seminars	2023-2024
Essentials of Leadership: Leaders Who Instill Trust, Mass General Brigham (online, 3 hours)	2023
Raising a Resilient Scientist, Office of Intramural Training & Education, National Institutes of Health (online, 5 x 2.5-hour sessions)	2022-2023
Immunology, HMX Fundamentals, Harvard Medical School Fundamentals, Boston, MA (online, 10 weeks)	2021
Comprehensive Meta-Analysis, 1-week course, Michael Borenstein, San Francisco, CA	2015
Training in Grantsmanship for Rehabilitation Research (TIGRR), Intensive Grant Writing Workshop (1 week), Charleston, SC	2014
INLS 151 – Retrieving and Analyzing Information, School of Information and Library Science, University of North Carolina at Chapel Hill, Fall 2014	2014
Running Regression and ANCOVA in SPSS GLM, online workshop (5 hours), Dr. Karen Grace-Martin, The Analysis Factor	2012
Interpreting Regression Coefficients, Online Workshop (6 hours), Dr. Karen Grace-Martin, The Analysis Factor	2012
Aiming for Success! A Writing Workshop for Researchers, Tufts Clinical and Translational Science Institute	2011
Analyzing Repeated Measures Data, Online Workshop (9 hours), Dr. Karen Grace-Martin, The Analysis Factor	2011
Surviving the Great Grant Crunch: How to Thrive in the Midst of the Worst Funding Environment in Years, Teleseminar (1 hour), Dr. Morgan Giddings	2010
Assumptions of the General Linear Model and How to Check Them, Online Workshop (4 hours), Dr. Karen Grace-Martin, The Analysis Factor	2010
Survival Analysis, Online Webinar (1 hour), Dr. Karen Grace-Martin, The Analysis Factor	2010
Running Regressions and ANOVAs in SPSS GLM, Online Workshop (3 hours), Dr. Karen Grace-Martin, The Analysis Factor	2010
Calculating Power and Sample Size, Online Workshop (3 hours), Dr. Karen Grace-Martin, The Analysis Factor	2010
Missing Data: Dealing with Missing Data without Biassing your Results, Online Workshop (6 hours), Dr. Karen Grace-Martin, The Analysis Factor	2010
A Review of Logarithms for the Data Analyst, Webinar (1 hour), Dr. Karen Grace-Martin, The Analysis Factor	2010
Enhancing Rehabilitation Research in the South (ERRIS) Intensive Grant Writing Workshop (1 week), Charlottesville, VA	2010
Running Regression and ANOVA in SPSS, Online Workshop (3 hours), Dr. Karen Grace-Martin, The Analysis Factor	2009
Running Repeated Measures as a Mixed Model, Webinar (1 hour), Dr. Karen Grace-Martin, The Analysis Factor	2009
Responsible Conduct of Research: Plagiarism and Authorship, University of California Los Angeles	2008
Biostatistics 100B, University of California Los Angeles, Winter, 2008	2008

Biostatistics 200A, University of California Los Angeles, Fall 2007	2007
NIH Grant Preparation (K30 Graduate Training Program Module), University of California Los Angeles	2007
Brain Mapping for Translational Investigators (K30 Graduate Training Program Module), University of California Los Angeles	2007
Interactive Online NIH Grant Writing Training Course, Science Outreach Center, National Institute of General Medical Sciences	2007

## **PROFESSIONAL SERVICE**

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### **SERVICE TO THE DISCIPLINE / PROFESSION**

#### **National Committees**

Member, Healthcare Provider Council, National Multiple Sclerosis Society, Northeast Chapter	2021-pres
Chair, Clinical Research Network Committee, American Society of Neurorehabilitation	2018-pres
Chair, Healthcare Provider Council, National Multiple Sclerosis Society, Greater Carolinas Chapter	2019-2020
Chair, Workforce Development Committee, National Multiple Sclerosis Society, Greater Carolinas Chapter	2015-2020
Member, Healthcare Provider Council, National Multiple Sclerosis Society, Greater Carolinas Chapter	2015-2019
Member, Clinical Research Network Committee, American Society of Neurorehabilitation	2010-2018
Member, Early Career Course Planning Task Force, American Congress of Rehabilitation Medicine	2009-2016
Member, American Congress of Rehabilitation Medicine, Stroke Networking Group Cognition Task Force	2010-2015
Member, American Society of Neurorehabilitation Clinical Research Network Review Board	2014
Chair, Early Career Committee, American Congress of Rehabilitation Medicine	2011-2013
Member, Nominating Committee, American Society of Neurorehabilitation	2010-2013

#### **Editorial Board Member / Editor**

Frontiers in Rehabilitation Sciences, Associate Editor	2022-pres
Journal of Physiotherapy, Critically Appraised Paper Editor	2014-pres
Gerontology, Editorial Board	2012-pres
International Journal of Therapy and Rehabilitation, Editorial Board	2007-pres

#### **Ad hoc Reviewer for Professional Journals (selected)**

Annals of Physical and Rehabilitation Medicine  
 Archives of Physical Medicine and Rehabilitation  
 Brain Research  
 BMC Geriatrics  
 Clinical Biomechanics

CNS Drugs  
Complementary Therapies in Clinical Practice  
European Journal of Neurology  
Experimental Brain Research  
Frontiers in Human Neuroscience  
Gait & Posture  
Gerontology  
International Journal of Therapy and Rehabilitation  
Journal of the American Heart Association  
Journal of Aging and Physical Activity  
Journal of Applied Biomechanics  
Journal of Biomechanics  
Journal of Motor Behavior  
Journal of Physiotherapy  
Journal of Rehabilitation Medicine  
Medicine & Science in Sports & Exercise  
Multiple Sclerosis & Related Disorders  
Multiple Sclerosis Journal  
Neuroscience and Biobehavioral Reviews  
Neurorehabilitation and Neural Repair  
Physical Therapy  
Physiotherapy Theory and Practice  
PLoS One  
Scientific Reports

### **External Thesis Examiner, Tenure/Promotion Evaluations**

University of Boston (Promotion)	2023
University of Haifa, Israel (Promotion)	2022
University of Melbourne, Victoria, Australia (Promotion)	2020
University of Buffalo, New York, USA (Promotion with tenure)	2018
University of Melbourne, Victoria, Australia (PhD Thesis Examiner)	2007

### **SERVICE TO THE INSTITUTION**

#### **Department**

Research Mentor, Department of Physical Therapy, MGH Institute of Health Professions	2021-pres
Member, Admissions Committee, Department of Physical Therapy, MGH Institute of Health Professions	2019-pres
Interim Chair, Admissions Committee, Department of Physical Therapy, MGH Institute of Health Professions	2021
Member, Research Committee, Department of Physical Therapy, MGH Institute of Health Professions	2019-2020
Chair, Education Committee, Human Movement Sciences Curriculum PhD Program, University of North Carolina at Chapel Hill	2018-2019
Reviewer, Ambassador Awards, Department of Allied Health Sciences, University of North Carolina at Chapel Hill	2017-2019
Member, Admissions Committee, Division of Physical Therapy, University of North Carolina at Chapel Hill	2013-2019
Chair, Search Committee, Division of Physical Therapy, University of North	2016-2018

Carolina at Chapel Hill		
Member, Education Committee, Human Movement Sciences Curriculum PhD Program, University of North Carolina at Chapel Hill		2016-2018
Reviewer, Graduate School Summer Research Fellowships, University of North Carolina at Chapel Hill		2018
Member, Search Committee (Grants and Contracts Manager), Department of Allied Health Sciences, University of North Carolina at Chapel Hill		2014
Member, Academic Standing Committee, Department of Physical Therapy, Northeastern University		2012-2013
Member, Research Committee, Department of Physical Therapy, Northeastern University		2008-2013
Member, Faculty Search Committee, Department of Physical Therapy, Northeastern University		2010-2012
Co-Chair, Research Committee, Department of Physical Therapy, Northeastern University		2010-2012
Member, Search Committee for Assoc/Full Professor in Movement Neuroscience, Departments of Biology and Physical Therapy, Northeastern University		2009-2010

### **College/School**

Mentor, Mentorship Academy, MGH Institute of Health Professions	2024
Member (elected), Appointment and Promotions Committee, Faculty Senate, MGH Institute of Health Professions	2023-pres
Member, IMPACT Practice Center Scholarship Committee, MGH Institute of Health Professions	2023-pres
Member, Executive Committee, PhD in Rehabilitation Sciences, MGH Institute of Health Professions	2020-pres
Member, Faculty Development Working Group, Office of the Provost, MGH Institute of Health Professions	2023
Reviewer, Impact Practice Center Innovation Grants, MGH Institute of Health Professions	2022
Member, New Initiatives Committee, MGH Institute of Health Professions	2021-pres
Reviewer, COVID-19 grants, MGH Institute of Health Professions	2020
Member, New Project Team, Digital Measure-Activity Insight, Bouvé College of Health Sciences, Northeastern University	2011-2013
Ad hoc member, Interdisciplinary Committee, Bouvé College of Health Sciences, Northeastern University	2010-2011
Event Organizer, Interdisciplinary Colloquium, Bouvé College of Health Sciences, Northeastern University	2009
Member (postgraduate student representative), Human Research Ethics Committee, Faculty of Health Sciences, La Trobe University	2000-2003

### **OTHER PROFESSIONAL SERVICE**

#### **Grant Review Panels**

Reviewer (standing member), National Multiple Sclerosis Society, Committee D	2017-pres
Ad hoc reviewer, MS Society (United Kingdom), Doctoral Training Centre Awards	2023

Ad hoc reviewer, NIH NCMRR Early Career Research Award, Special Emphasis Panel	July, 2023
Ad hoc reviewer, National Institutes of Health (NIH), Musculoskeletal Rehabilitation Sciences (MRS) Study Section	Oct, 2023
Ad hoc reviewer, National Institutes of Health (NIH), Musculoskeletal Rehabilitation Sciences (MRS) Study Section	Feb, 2023
Reviewer, Biomedicine and Life Sciences, Israel Science Foundation	2022
Ad hoc member, Department of Veterans Affairs, Rehabilitation Research and Development Scientific Merit Review, Brain Injury: TBI and Stroke panel	2021-2022
Reviewer, National Institutes of Health (NIH), F02B-E study section (NRSA F30, F31, F32 fellowships) (Jun, Oct)	2021
Ad hoc member, Department of Veterans Affairs, Rehabilitation Research and Development Scientific Merit Review, Brain Injury: TBI and Stroke panel	2017-2018
Ad hoc reviewer, National Multiple Sclerosis Society, Committee C	2018-2022
Ad hoc reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grants	2017
Reviewer, Department of Defense Congressionally Directed Medical Research Programs (CDMRP), various program panels for multiple sclerosis research	2015-2018
Ad hoc reviewer, National Institutes of Health (NIH), Motor Function and Speech Rehabilitation (MFSR) Study Section	2015
Reviewer, National Institute on Disability and Rehabilitation Research (NIDRR)	2015
Ad hoc member, Department of Veterans Affairs, Rehabilitation Research and Development Scientific Merit Review, Brain Injury: TBI and Stroke panel	2010-2015
Reviewer, National Institute on Disability and Rehabilitation Research (NIDRR)	2014
Reviewer, Department of Veterans Affairs, RR&D Small Projects in Rehabilitation Research (SPiRE) Award	2013
Reviewer, National Institute on Disability and Rehabilitation Research (NIDRR)	2012
Reviewer, US Army Medical Research and Materiel Command (USAMRMC)	2011

### **Site Visit Reviewer**

National Institute on Disability and Rehabilitation Research (NIDRR)	2014
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### **Advisory Boards / Consulting**

Tedy's Team Center of Excellence in Stroke Recovery, Scientific Advisory Board, MGH Institute of Health Professions	2023-pres
Helius Medical Technologies, Inc., MS Scientific Steering Committee	2020-2021
Nymbl Science, Inc., Advisory Board	2019-2020
Acorda Therapeutics, Inc., Physical Therapy in Post Stroke Advisory Board	2015
Consultant, Movement and Perception Laboratory, Institute of Cognitive	2004-2005

Neuroscience, University of the Mediterranean, Marseille, France