



Dr. Michael Harris-Love
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Doctor of Physical Therapy Program, University of Colorado, Anschutz Medical Campus

Education

2010	Georgetown University/Children's National Hospital DC Clinical Research Training Consortium (K30) Washington, DC Degree: n/a, Post-Doctoral Fellowship
2004	University of Indianapolis Krannert School of Physical Therapy, Indianapolis, IN Degree: Doctor of Health Science
1997	Mayo School of Health Sciences Program in Physical Therapy, Rochester, MN Degree: Masters of Physical Therapy
1995	Northern Arizona University College of Health Professions Degree: Bachelor of Science, Cum Laude

Licensure Information

Physical Therapy License, # PTL.0017501, State Physical Therapy Board, Division of Professions and Occupations, Colorado Department of Regulatory Agencies

Physical Therapy License #870257, D.C. Board of Physical Therapy

Physical Therapy License #19480, Maryland Board of Physical Therapy

Physical Therapy Registration #6127, Minnesota Board of Medical Practice

Certifications (e.g., ABPTS)

2022 – 2024	Health Care/CPR Provider, American Heart Association
1999 – 2011	Certified Strength and Conditioning Specialist, National Strength and Conditioning Association Certification Commission

Employment and Positions Held from most recent to earliest

Academic Appointments

2024 – Present	Professor, Department of Bioengineering, College of Engineering, Design and Computing Graduate School, University of Colorado, Denver Anschutz Medical
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Campus, Denver and Aurora, CO

- 2022 – Present Professor, Rehabilitation Sciences, Graduate School, University of Colorado, Denver | Anschutz Medical Campus, Denver and Aurora, CO
- 2021 – Present Professor, Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
- 2019 – 2021 Visiting Professor, Physical Therapy Program, University of Colorado, Anschutz Medical Campus, Aurora, CO
- 2015 – 2019 Affiliate Faculty, Department of Rehabilitation Science, College of Health and Human Services, George Mason University, Fairfax, VA
- 2014 – 2017,
2018 – 2019 Associate Clinical Professor, Department of Exercise and Nutrition Sciences, Milken Institute School of Public Health, The George Washington University, Washington, DC
- 2009, 2011, 2012 Adjunct Assistant Professor, Department of Physical Therapy and Health Care Sciences, School of Medicine and Health Sciences, The George Washington University, Washington, DC
- 2005 – 2010 Adjunct Assistant Professor, Department of Physical Therapy and Rehabilitation Science, School of Medicine, University of Maryland, Baltimore, MD
- 2005 – 2008 Assistant Professor, Program in Physical Therapy, School of Medicine and Health Sciences, The George Washington University, Washington, DC (Core Faculty & CAPTE Self-Study/Accreditation Report Team)
- 2004 – 2009 Adjunct Faculty, Krannert School of Physical Therapy, University of Indianapolis, Indianapolis, IN

Research Appointments and Positions

- 2019 – Present Health Scientist, Geriatric Research Education and Clinical Center, VA Eastern Colorado Healthcare System, Denver, CO
- 2010 – 2014 Research Scientist, Center for Applied Biomechanics and Rehabilitation Research (CABRR), National Rehabilitation Hospital, Washington, DC
- 2010 – 2011 Special Volunteer, Physical Therapy Section, Rehabilitation Medicine Department, Mark O. Hatfield Clinical Center, National Institutes of Health, Bethesda, MD
- 2008 – 2019 Health Systems Specialist, Geriatrics and Extended Care, VA Medical Center, Washington, DC
- 2005 – 2010 Special Volunteer, Environmental Autoimmunity Group, National Institute of Environmental Health Sciences, National Institutes of Health, Bethesda, MD

1993 – 1995 Undergraduate Research Assistant, Comparative Physiology and Functional Morphology Laboratory, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ

Administrative Positions

2020 – Present Vice Chair of Learning, Development, and Inclusion, School of Medicine, Department of Physical Medicine and Rehabilitation, University of Colorado Anschutz Medical Campus, Aurora, CO

2019 – Present Associate Dean, Physical Therapy Education, School of Medicine, and Director of the Physical Therapy Program, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO

2019 – Present Director of the Physical Therapy Program, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO

2015 – 2019 Associate Director, Human Performance Research Unit, Clinical Research Center, VA Medical Center, Washington, DC

2014 – 2019 Site Director, Exercise Science/Health Science Internship Program, George Washington University/DC VAMC Physical Medicine & Rehabilitation Service, Washington, DC

2013 – 2019 Director, Muscle Morphology, Mechanics, and Performance Laboratory (3MAP Lab), Physical Medicine & Rehabilitation Service, VA Medical Center, Washington, DC

2012 – 2019 Deputy Director, Polytrauma/TBI Rehabilitation Research Fellowship, Research Service/Physical Medicine & Rehabilitation Service, VA Medical Center, Washington, DC

Clinical Positions

2008 – 2019 Clinical privileges, Geriatrics and Extended Care, VA Medical Center, Washington, DC

2005 – 2010 Clinical privileges, Physical Therapy Section, Rehabilitation Medicine Department, Mark O. Hatfield Clinical Center, National Institutes of Health, Bethesda, MD

2004 – 2005 Rheumatology Clinical Specialist, Physical Therapy Section, Rehabilitation Medicine Department, Mark O. Hatfield Clinical Center, National Institutes of Health, Bethesda, MD

2000 – 2004 Senior Physical Therapist, Physical Therapy Section, Rehabilitation Medicine Department, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, MD

- 1999 – 2000 Staff Physical Therapist, Physical Therapy Section, Rehabilitation Medicine Department, Warren Magnuson Clinical Center, National Institutes of Health, Bethesda, MD
- 1997 – 1998 Staff Physical Therapist, Department of Physical Medicine and Rehabilitation, Mayo Medical Center, Rochester, MN

Scholarly Agenda

Dr. Harris-Love's scholarly agenda includes the study of muscle plasticity in response to exercise-based interventions, normal aging, and chronic disease. His laboratory group is currently working to improve the recognition and use of muscle health as a geriatric "vital sign" given the influence of the skeletal muscle system on metabolic status and functional independence. This work involves the development of rapid and portable methods of assessing muscle tissue composition and mechanical properties. In addition, Dr. Harris-Love employs the use of eccentric muscle actions in exercise-based interventions for the rehabilitative management of age-related chronic conditions.

Peer Reviewed Publications

† designates papers with **M. Harris-Love** as the lead, co-lead, or senior author

1. Mañago MM, Will R, Strahler T, Van Valkenburgh L, **Harris-Love M**, Forster J, Cameron M, Christiansen CL. Blood flow restriction and veterans with multiple sclerosis (BRaVe-MS) who have advanced disability: protocol for a randomized controlled trial. *Physical Therapy*. 2024;104:in press.
2. Oranchuk DJ, Bodkin SG, Boncella KL, **Harris-Love M**. Exploring the associations between skeletal muscle echogenicity and physical function in aging adults: A systematic review with meta-analyses. *Journal of Sport and Health Science*. 2024;13:in press.
3. Gollie JM, Ryan AS, Sen S, Patel SS, Kokkinos PF, **Harris-Love MO**, Scholten JD, Blackman MR. Exercise for chronic kidney disease patients: from cells to systems to function. *American Journal of Physiology-Renal Physiology*. 2024;326:epub ahead of print. (doi: 0.1152/ajprenal.00302.2023)
4. Mañago MM, Seamon BA, Boncella K, Wallin MT, Maloni H, Hoover B, Blackman MR, **Harris-Love MO**. Ultrasound measures of muscle morphology in multiple sclerosis and its relation to patient characteristics, muscle performance and functional mobility. *Multiple Sclerosis and Related Disorders*. 2023;73; p.104635. (doi: 10.1016/j.msard.2023.104635)
5. Smith AC, Kuchnia A, Bodkin SG, **Harris-Love M**. Innovative imaging approaches to advance musculoskeletal rehabilitation. *Frontiers in Rehabilitation Sciences*. 2023;4:1-2. (doi: 10.3389/fresc.2023.1110409)
6. Bodkin SG, Smith AC, Bergman B, Huo D, Weber KA, Zarini SA, Kahn D, Garfield A, Macias E, **Harris-Love MO**. Utilization of mid-thigh magnetic resonance imaging to predict lean body mass and knee extensor strength in obese adults. *Frontiers in Rehabilitation Sciences*. 2022; 3:1-7. (doi: 10.3389/fresc.2022.808538)
7. Gollie JM, Patel SS, **Harris-Love MO**, Cohen SD, Blackman MR. Fatigability and the role of neuromuscular impairments in chronic kidney disease. *American Journal of Nephrology*. 2022; 53: epub ahead of print. (doi: 10.1159/000523714)

8. †**Harris-Love MO**, Gollie JM, Keogh J: Eccentric exercise: adaptations and applications for health and performance. *Journal of Functional Morphology and Kinesiology*. 2021; 6:1-12. (doi: 10.3390/jfmk6040096).
9. Mamyrova G, McBride E, Yao L, Shrader JA, Jain M, Yao J, Curiel RV, Miller FW, **Harris-Love MO**, Rider LG: Preliminary validation of muscle ultrasound in juvenile dermatomyositis. *Rheumatology*. 2021; 60:epub ahead of print. (doi:10.1093/rheumatology/keab833)
10. †Gollie JM, **Harris-Love MO**, Patel SS, Shara NM, Blackman MR. Rate of force development is related to maximal force and sit-to-stand performance in men with stages 3b and 4 chronic kidney disease. *Frontiers in Rehabilitation Sciences*. 2021; 2:1-10. (doi: 10.3389/fresc.2021.734705)
11. Mañago MM, Kline PW, **Harris-Love MO**, Christiansen CL: The validity of the single-leg heel raise test in people with multiple sclerosis: a cross-sectional study. *Front. Neurol. - Multiple Sclerosis and Neuroimmunology*. 2021; 12:1-7. (doi: 10.3389/fneur.2021.650297)
12. Correa-de-Araujo R, Addison O, Miljkovic I, Goodpaster B, Bergman B, Clark RV, Elena J, Esser K, Ferrucci L, **Harris-Love MO**, Kritchevsky SB, Lorbergs A, Shepherd JA, Shulman GI, Rosen CJ: Myosteatorsis in the context of skeletal muscle function deficit: report from the National Institute on Aging Workshop. *Frontiers in Physiology – Striated Muscle Physiology*. 2020;11:1-18. (doi: 10.3389/fphys.2020.00963)
13. Gollie JM, Patel SS, Scholten JD, **Harris-Love MO**. Preliminary study of the effects of eccentric-overload resistance exercise on physical function and torque capacity in chronic kidney disease. *Journal of Functional Morphology and Kinesiology*. 2020; 5(4):1-12. (doi: 10.3390/jfmk5040097)
14. Maugeri G, D'Agata V, Roggio F, Cortis C, Fusco A, Foster C, Mañago MM, **Harris-Love MO**, Vleck V, Piacentini MF, Musumeci G. The Journal of Functional Morphology and Kinesiology Journal Club Series: PhysioMechanics of Human Locomotion. *Journal of Functional Morphology and Kinesiology*. 2020;5(3):1-10. (doi.org/10.3390/jfmk5030052)
15. Gallo LH, Rodrigues EV, Filho JM, da Silva JB, **Harris-Love MO**, Gomes A: Effects of virtual dance exercise on skeletal muscle architecture and function of community-dwelling older women. *Journal of Musculoskeletal and Neuronal Interactions*. 2019;19(1):50-61. (PMCID: PMC6454256)
16. †**Harris-Love MO**, Gonzales TI, Wei Q, Ismail C, Zabal J, Woletz P, DiPietro P, Blackman MR: The association between muscle strength and modeling estimates of muscle tissue heterogeneity in young and old adults. *Journal of Ultrasound in Medicine*. 2019;38(7):1757-1768. (doi: 10.1002/jum.14864)
17. Gallo LH, Rodrigues EV, Filho JM, da Silva JB, **Harris-Love MO**, Gomes A: Effects of virtual dance exercise on skeletal muscle architecture and function of community-dwelling older women. *Journal of Musculoskeletal and Neuronal Interactions*. 2019;19(1):50-61. (PMCID: PMC6454256)
18. †**Harris-Love MO**, Benson K, Leasure E, Adams B, McIntosh V: The influence of upper and lower extremity strength on performance-based sarcopenia assessment tests. *Journal of Functional Morphology and Kinesiology*. 2018;3(4):1-13. (Special Issue - *Sarcopenia, Muscle Wasting and Exercise*; doi.org/10.3390/jfmk3040053)

19. Gollie JM, **Harris-Love MO**, Patel SS, Argani S: Chronic kidney disease: considerations for monitoring skeletal muscle health and prescribing resistance exercise. *Clinical Kidney Journal*. 2018;11(6):822-831. (doi.org/10.1093/ckj/sfy054)
20. †**Harris-Love MO**, Avila NA, Adams B, Zhou J, Seamon B, Ismail C, Zaidi SH, Kassner CA, Liu F, Blackman MR: The comparative associations of ultrasound and computed tomography estimates of muscle quality with physical performance and metabolic parameters in older men. *Journal of Clinical Medicine*. 2018;7(10):1-19. (Special Issue - *Sarcopenia in Older Adults*; doi: 10.3390/jcm7100340)
21. †Hernandez HJ, Obamwonyi G, **Harris-Love MO**: Physical therapy considerations for chronic kidney disease and secondary sarcopenia. *Journal of Functional Morphology and Kinesiology*. 2018;3(1):1-8. (doi:10.3390/jfmk3010005)
22. Schiftenbauer A, Sawhney M, Castro C, Pokrovnichka A, Joe G, Shrader J, Cabalar I, **Harris-Love MO**, Plotz P, Miller F, Gourley M: A randomized, double-blind, placebo-controlled trial of infliximab in refractory polymyositis and dermatomyositis. *Seminars in Arthritis and Rheumatism*. 2017;47(6):858-864. (doi: 10.1016/j.semarthrit.2017.10.010)
23. †Falcon L, **Harris-Love MO**: Sarcopenia and the new ICD-10-CM code: screening, staging, and diagnosis considerations for the VA health care system. *Federal Practitioner*. 2017;34(7):24-32. (PMCID: 5576154)
24. Chanpimol S, Seamon BA, Hernandez HJ, **Harris-Love MO**, Blackman MR: Using Xbox Kinect motion capture technology to improve clinical rehabilitation outcomes for balance and cardiovascular health in an individual with chronic TBI. *Archives of Physiotherapy*. 2017;7(6):1-11. (doi: 10.1186/s40945-017-0033-9)
25. †**Harris-Love MO**, Seamon BA, Gonzales TI, Hernandez HJ, Pennington D, Hoover B: Eccentric exercise program design: a periodization model for rehabilitation applications. *Frontiers in Physiology – Exercise Physiology*. 2017;8(87):1- 16. (doi: 10.3389/fphys.2017.00112)
26. †Correa-de-Araujo R*, **Harris-Love MO***, Miljkovic I, Fragala MS, Anthony BW, Mannini T: The need for standardized assessment of muscle quality in skeletal muscle function deficit and other aging-related muscle dysfunctions: a symposium report. *Frontiers in Physiology – Striated Muscle Physiology*. 2017;8(112):1-19. (doi:10.3389/fphys.2017.00087)
*corresponding authors
27. Seamon BA, **Harris-Love MO**: Clinical assessment of fatigability in multiple sclerosis: a shift from perception to performance. *Frontiers in Neurology*. 2016;7 (Article 194):1-4. (doi: 10.3389/fneur.2016.00194)
28. †**Harris-Love MO**, Ismail C, Monfaredi R, Hernandez HJ, Pennington D, Woletz P, McIntosh V, Adams B, Blackman MR: Interrater reliability of quantitative ultrasound using force feedback among examiners with varied levels of experience. *PeerJ*. 2016; 4:e2146:1-17. (doi: 10.7717/peerj.2146)
29. †**Harris-Love MO**, Seamon BA, Teixeira C, Ismail C: Ultrasound estimates of muscle quality in older adults: reliability and comparison of Photoshop and ImageJ for the grayscale analysis of muscle echogenicity. *PeerJ*. 2016;4:e1721:1-23. (doi: 10.7717/peerj.1721)
30. †Ismail C, Zabal J, Hernandez HJ, Woletz P, Manning H, Teixeira C, DiPietro L, Blackman

- MR, **Harris-Love MO**: Diagnostic ultrasound estimates of muscle mass and muscle quality discriminate between women with and without sarcopenia. *Frontiers in Physiology – Striated Muscle Physiology*. 2015;6 (Article 302):1-10. (doi: 10.3389/fphys.2015.00302)
31. †Hernandez HJ, McIntosh V, Leland A, **Harris-Love MO**: Progressive resistance exercise with eccentric loading for the management of knee osteoarthritis. *Frontiers in Medicine – Geriatric Medicine*. 2015; 2 (Article 45):1-11. (doi: 10.3389/fmed.2015.00045)
 32. †Davenport T, Benson K, Baker S, Gracey C, Racocevic G, McElroy B, Dalakas M, Shrader S, **Harris-Love MO**: Lower extremity peak force and gait kinematics in individuals with inclusion body myositis. *Arthritis Care & Research*. 2015; 67(1):94-101. (doi: 10.1002/acr.22468)
 33. †**Harris-Love MO**, Joe G, Davenport T, Koziol D, Abbett Rose K, Shrader JA, Vasconcelos OM, McElroy B, Dalakas M: Reliability of the Adult Myopathy Assessment Tool in adults with myositis. *Arthritis Care & Research*. 2015;67(4):563- 570. (doi: 10.1002/acr.22473)
 34. †**Harris-Love MO**, Adams B, Hernandez HJ, DiPietro L, Blackman MR: Disparities in the consequences of sarcopenia: implications for African American veterans. *Frontiers in Physiology – Striated Muscle Physiology*. 2014;5(Article 250):1-5. (doi:10.3389/fphys.2014.00250)
 35. †**Harris-Love MO**, Monfaredi R, Ismail C, Blackman MR, Cleary K: Quantitative ultrasound: measurement considerations for the assessment of muscular dystrophy and sarcopenia. *Frontiers in Aging Neuroscience*. 2014;6(Article 172):1-4. (doi:10.3389/fnagi.2014.00172)
 36. †**Harris-Love MO**, Fernández-Rhodes LE, Joe G, Shrader JA, Freeman BK, Auh S, Kokkinis AD, La Pean A, Chen C, Lehky TJ, Levy EW, Davenport T, Di Prospero NA, Fischbeck KH: Assessing function and endurance in adults with spinal and bulbar muscular atrophy: validity of the Adult Myopathy Assessment Tool. *Rehabilitation Research and Practice*. 2014; Article ID 873872, 16 pages. (doi:10.1155/2014/873872)
 37. †Davenport T, Shrader J, McElroy B, Rakocevic G, Dalakas M, **Harris-Love MO**: Validity of the single-limb heel raise test to predict lower extremity disablement in patients with sporadic inclusion body myositis. *Disability and Rehabilitation*. 2014;36(26):2270-2277. (doi: 10.3109/09638288.2014.904447)
 38. †**Harris-Love MO**, Shrader J, Davenport T, Joe G, Rakocevic G, McElroy B, Dalakas M: Are repeated single-limb heel raises and the manual muscle test associated with peak plantarflexion force in people with inclusion body myositis? *Physical Therapy*. 2014;94(4): 543-552. (doi: 10.2522/ptj.20130100)
 39. Aggarwal R, Bandos A, Reed AM, Ascherman DP, Barohn RJ, Feldman BM, Miller FW, Rider LG, **Harris-Love MO**, Levesque MC, Oddis CV; the Rituximab in Myositis (RIM) Study Group: Huber A, Vencovsky J, Mann H, Lundberg IE, Dimachkie M, Latinis K, Chung L, Fiorentino D, Crofford L, Cronin M, DiMartino S, Fessler B, Kolasinski S, Levine T, Marder G, Martin R, Eggebeen A, Narayanaswami P, Rutkove SB, Lacomis D, Bise C, Olsen N, Reimold A, Schioppa E, Phillips K, Seibold J, Sharma K, Venturupalli S, Weisman M, Ytterberg S, Kim S, Lee T, Lovell D, Rabinovich CE, Rivas- Chacon R, Sherry D: Predictors of clinical improvement in rituximab-treated refractory adult and juvenile dermatomyositis and adult polymyositis. *Arthritis & Rheumatism*. 2013; 66(3):740-9. (doi: 10.1002/art.38270)
 40. Oddis CV, Reed AM, Aggarwal R, Rider LG, Ascherman DP, Levesque MC, Barohn RJ, Feldman BM, **Harris-Love MO**, Koontz DC, Fertig N, Kelley SS, Pryber SL, Miller FW and Rockette HE;

- Rituximab in Myositis (RIM) Study Group: Huber A, Vencovsky J, Mann H, Lundberg IE, Dimachkie M, Latinis K, Chung L, Fiorentino D, Crofford L, Cronin M, DiMartino S, Fessler B, Kolasinski S, Levine T, Marder G, Martin R, Eggebeen A, Narayanaswami P, Rutkove SB, Ascherman D, Lacomis D, Bise C, Olsen N, Reimold A, Schioppa E, Phillips K, Seibold J, Sharma K, Venturupalli S, Weisman M, Ytterberg S, Kim S, Lee T, Lovell D, Rabinovich CE, Rivas-Chacon R, Sherry D: Rituximab in the treatment of refractory adult and juvenile dermatomyositis and adult polymyositis: a randomized, placebo-phase trial. *Arthritis & Rheumatism*. 2012;65(2):314-24. (doi: 10.1002/art.37754)
41. Fernández-Rhodes LE, Kokkinis AD, White MJ, Watts CA, Auh S, Jeffries NO, Shrader JA, Lehky TJ, Li L, Ryder JE, Levy EW, Solomon BI, **Harris-Love MO**, La Pean A, Schindler AB, Chen C, Di Prospero NA, Fischbeck KH. Efficacy and safety of dutasteride in patients with spinal and bulbar muscular atrophy: a randomised placebo-controlled trial. *Lancet Neurology*. 2011;10(2):140-7. (doi: 10.1016/S1474-4422(10)70321-5)
 42. Rider LG, Lachenbruch PA, Monroe JB, Ravelli A, Cabalar I, Feldman BM, Villalba ML, Myones BL, Pachman LM, Rennebohm RM, Reed AM, Miller FW; International Myositis Assessment and Clinical Studies Group: Adams EM, Ballinger SH, Bowyer SL, Gomez O, **Harris-Love MO**, Jain MS, Joe GO, Hill S, James-Newton L, Lindsley CB, Passo MH, Perez MD, Plotz PH, Wallace CA, Zemel LS: Damage extent and predictors in adult and juvenile dermatomyositis and polymyositis as determined with the myositis damage index. *Arthritis & Rheumatism*. 2009;60(11):3425-35. (doi: 10.1002/art.24904)
 43. Rhodes LE, Freeman BK, Auh S, Kokkinis AD, La Pean A, Chen C, Lehky TJ, Shrader JA, Levy EW, **Harris-Love M**, Di Prospero NA, Fischbeck KH: Clinical features of spinal and bulbar muscular atrophy. *Brain*. 2009;132(Pt 12):3242-51. (doi: 10.1093/brain/awp258)
 44. Croarkin E, Maring J, Pfalzer L, **Harris-Love MO**, Di Prospero NA: Characterizing gait, ambulation status, and disease severity in children with Friedreich ataxia. *Journal of Neurologic Physical Therapy*. 2009;33(3):144-9. (doi: 10.1097/NPT.0b013e3181b5112e)
 45. †**Harris-Love MO**, Shrader JA: Resident's Case Problem: patellofemoral knee pain in an adult with radiographic osteoarthritis and HIV infection. *Journal of Orthopedic & Sports Physical Therapy*. 2009;39(8):612-7. (doi: 10.2519/jospt.2009.2961)
 46. Dalakas MC, Rakocevic G, Schmidt J, Salajegheh M, McElroy B, **Harris-Love MO**, Shrader JA, Levy EW, Dambrosia J, Kampen RL, Bruno DA, Kirk AD: Effect of Alemtuzumab (CAMPATH 1-H) in patients with inclusion-body myositis. *Brain*. 2009;132:1536-44. (doi: 10.1093/brain/awp104)
 47. †**Harris-Love MO**, Shrader JA, Koziol D, Pahlajani N, James-Newton L, Pokrovnichka A, Moini B, Villalba L, Cabalar I, Jain M, Smith M, Cintas HL, McGarvey CL, Wesley R, Plotz P, Miller FW, Hicks JE, Rider LG: Distribution and severity of weakness in adult and juvenile myositis. *Rheumatology (Oxford)*. 2009;48(2):134-9. (doi: 10.1093/rheumatology/ken441)
 48. †**Harris-Love MO**: Rehabilitation and myositis: physical therapy for inflammatory muscle disease. *The Rheumatologist*. 2008;2(1):1,16-17.
 49. Manoel ME, **Harris-Love MO**, Danoff JM, Miller TA: Acute effects of static, dynamic, and proprioceptive neuromuscular facilitation stretching on muscle power in women. *Journal of Strength and Conditioning Research*. 2008;22(5):1528- 1534. (doi: 10.1519/JSC.0b013e31817b0433)
 50. Sparks S, Rakocevic G, Joe G, Manoli I, Shrader J, **Harris-Love M**, Sonies B, Ciccone C, Dorward H, Krasnewich D, Huizinga M, Dalakas MC, Gahl WA: Intravenous immune globulin in

hereditary inclusion body myopathy: A pilot study. *BMC Neurology*. 2007; 7:1-13. (doi: 10.1186/1471-2377-7-3)

51. Jain M, Smith M, Cintas H, Koziol D, Wesley R, **Harris-Love M**, Hicks J, Rider LG, Lovell D: Intra-rater and inter-rater reliability of the 10-point manual muscle test of strength in children with juvenile dermatomyositis. *Physical and Occupational Therapy in Pediatrics*. 2006;26(3): 5-17. (PMID: 16966313)
52. †**Harris-Love MO**: Safety and efficacy of submaximal eccentric training for a subject with myositis. *Arthritis Care & Research*. 2005;52(3):471-474. (doi: 10.1002/art.21185)
53. Oddis CV, Rider LG, Reed AM, Ruperto N, Brunner HI, Koneru B, Feldman BM, Giannini EH, Miller FW; International Myositis Assessment and Clinical Studies Group: Al-Mayouf SM, Ascherman D, Banwell B, Barohn R, Borges C, Bradley W, Burgos-Vargas R, Callen J, Chwalinska-Sadowska H, Crofford L, Cronin M, Danko K, Davidson J, Feitosa de Oliveira SK, Finkel R, De la Torre IG, Guzman L, Hameed K, **Harris-Love MO**, Hicks J, Huber A, Huppertz H, Imundo L, Isenberg D, Jorizzo J, Kagen L, Kissel J, Kumar A, Kuntz N, Kurihara T, Kutzbach AG, Lacomis D, Lang B, Levine T, Lindsley C, Lochmuller H, Lovell D, Lundberg I, Malleson P, Kazue S, Marie N, Martini A, Mastalgia F, Medsger T, Mielnik P, Muller- Felber H, Murray K, Pachman L, Passo MH, Pestronk A, Pilkington C, Plotz P, Pongratz D, Punaro L, Ravelli A, Rennebohm R, Russman B, Rutkove S, Ryder C, Romicka AM, Salazar-Paramo M, Sallum AM, Schrieber L, Selva-O'Callaghan A, Serratrice J, Sherry DD, Silva CAA, Song YW, Sivakumar K, Sontheimer R, Sundel R, Targoff I, Tucker L, Vencovsky J, Vianna MA, Villalba M, Wallace C, Werth V, Wortmann R, Ytterberg S: International consensus guidelines for trials of therapies in the idiopathic inflammatory myopathies. *Arthritis & Rheumatism*. 2005;52(9):2607-15. (doi: 10.1002/art.21291)
54. †**Harris-Love MO**, Shrader, JA: Physiotherapy management of patients with HIV-associated Kaposi's sarcoma. *Physiotherapy Research International*. 2004;9(4):174-181. (doi: 10.1002/pri.321)
55. †**Harris-Love MO**, Siegel KL, Paul SM, Benson K: The rehabilitation management of Friedreich ataxia: force control variability and gait performance. *Neurorehabilitation and Neural Repair*. 2004;18(2):117-124. (doi: 10.1177/0888439004267241)
56. Rider LG, Giannini EH, Brunner HI, Ruperto N, James-Newton L, Reed AM, Lachenbruch PA, Miller FW; International Myositis Assessment and Clinical Studies Group: Feldman BM, Finkel RS, Huber AM, Lindsley CB, Lovell DJ, Malleson PN, Pilkington C, Pachman LM, Passo MH, Ravelli A, Rennebohm R, Russman BS, Sherry DD, White PH, Cronin ME, De la Torre IG, Isenberg DA, Kagen LJ, Lundberg IE, Oddis CV, Rutkove SB, Sivakumar K, Song YW, Targoff IN, Vencovsky J, Villalba M, Wortmann RL, Ytterberg S, Adams E, Hicks J, Joe G, **Harris Love MO**, Plotz PH: International consensus on preliminary definitions of improvement in adult and juvenile myositis. *Arthritis & Rheumatism*. 2004;50(7):2281-90. (doi: 10.1002/art.20349)
57. †**Harris-Love MO**: Physical activity and disablement in the idiopathic inflammatory myopathies. *Current Opinion in Rheumatology – Myositis & Myopathies Section*. 2003;15(6):679-690. (PMID: 14569196)
58. Rider LG, Giannini EH, **Harris-Love M**, Joe G, Isenberg D, Pilkington C, Lachenbruch PA, Miller FW, for the International Myositis Outcome Assessment Collaborative Study Group: Argov Z, Athreya B, Ballinger S, Bradley W, Brunner H, Burgos-Vargas R, Cabalar I, Cawkwell G, Cherin P, Danko K, Genth E, Hengstmann G, Huppertz HI, Kissel J, Klein- Gittelman M, Kutzbach AG, Levine T, Olsen N, Pongratz D, Spaeth M, Muller-Felber W, Ryder C, Senecal J-L, Serratrice J, van Engelen B, Wallace C: Defining clinical improvement in adult and juvenile myositis. *The Journal of Rheumatology*. 2003;30(3):603-617. (PMID: 12610824)

59. Youdas J, Atwood AL, **Harris-Love MO**, Stiller TL, Therneau T: Measurements of temporal aspects of gait obtained with a multimemory stopwatch in persons with gait impairments. *Journal of Orthopedic & Sports Physical Therapy*. 2000;30(5):279-286. (doi: 10.2519/jospt.2000.30.5.279)

Published Proceedings and Abstracts

1. **Harris-Love MO**, Boncella KL, Oranchuk DJ, McIntosh V, Adams B, Blackman MR: The relationship among strength, muesli texture, and echogenicity: Effects of body-mass scaling, sonographic scanning plane, and age. *Journal of Frailty & Aging*. 2024;12(Supplement 1).
2. Gollie JM, **Harris-Love MO**, Oranchuk DJ, Kim D, Scholten J, Stone D, Blackman MR: Body mass adjusted lower extremity torque and its relationship with physical function in United States Veterans. *Journal of Frailty & Aging*. 2024;12(Supplement 1).
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Book Chapters and e-Book Contributions

1. Gollie JM, **Harris-Love MO**: Chapter 9: Resistance Activities. In Uribarri J, Vassalotti JA, eds. *Nutrition, Fitness and Mindfulness: An Evidenced-Based Guide for Clinicians. Nutrition and Health Series*. Springer International AG: Switzerland, 2020. (ISBN 978-3-030-30891-9)
2. Hernandez HJ, **Harris-Love MO**: Sarcopenia. In: Staples WH, ed. *Geriatric Physical Therapy*. McGraw-Hill Education: New York; 2016. (ISBN-10: 0071825428)
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5. **Harris-Love MO**, L. Eenkhoorn: Veiligheid en effectiviteit van submaximale excentrische krachtraining voor een patiënt met polymyositis. In: Moons M., ed. *Fysiotherapeutische Casuïstiek*. Houten, Netherlands: Springer Media/Bohn Stafleu van Loghum; 2006:552-556. (doi: 10.1007/978-90-313-8645-1_86)

General Interest Articles and Media

1. **Harris-Love MO**, Adams B, Hernandez HJ, DiPietro L, Blackman MR: *Research Briefs – Wellness*. March 2015: <https://ivmf.syracuse.edu/wp-content/uploads/2016/05/Harris-Love-2014-IVMF-Research-Brief.pdf>
2. Hernandez HJ, **Harris-Love MO**: Ahead of the curve: preparing for the clinical diagnosis of sarcopenia. *GeriNotes*. The APTA Academy of Geriatric Physical Therapy, Madison WI. 2014;21(2):5-9.
3. **Harris-Love MO**: Why water?: buoyancy and resistance provide opportunities for strengthening. *The Outlook for the Inflammatory Myopathies: Treatment Issue*. The Myositis Association, Washington, DC, Winter/Spring 2006, pg. 5.
4. **Harris-Love MO**: Exercise for myositis patients: an approach for varied strength and flexibility levels. *The Outlook for the Inflammatory Myopathies*. Myositis Association of America, Harrisonburg, VA, March 2001, pg. 3-9.

Other Scholarly Outcomes

1. Oranchuk DJ, Bodkin SG, Boncella KL, **Harris-Love MO**. Exploring the associations between skeletal muscle echogenicity and physical function in aging adults: A systematic review with meta-analyses. *medRxiv*. 2023:2023-12.
2. Gollie JM, **Harris-Love MO**, Patel SS, Blackman MR. Rate of force development is related to maximal force, muscle quality and physical function in patients with chronic kidney disease predialysis. *medRxiv*. 2019;1:19013557. (doi.org/10.1101/19013557)
3. **Harris-Love MO**: Lead author, Rituximab in Myositis Study: Manual Muscle Testing Procedures, University of Pittsburgh, 2007.
4. **Harris-Love MO**: Instructional video, *Manual Muscle Test Considerations for Assessing Strength in Myositis*. Rehabilitation Medicine Department and the National Institute of Environmental Health Sciences, National Institutes of Health for the International Myositis Assessment and Clinical Studies Group, 2004.
5. Hicks JE, Cintas H, **Harris-Love MO**: Instructional video, *The Myositis Performance Profile*. Rehabilitation Medicine Department, NIH Clinical Center, 2000.

News Releases and Citations

1. DCG Communications for the Veterans and Consumers Health Informatics Office (VCHIO): In the spotlight: aging and muscle loss – keep your strength and stay independent. *My HealthVet*. In press. (Editors: **Harris-Love MO** and Boncella K)
2. Mirkin M: Muscling in on muscle loss: DC team seeks new ways to detect, treat sarcopenia. *VA Research Currents: Research News from the U.S. Department of Veterans Affairs*. Spring Issue 2018: <https://www.research.va.gov/currents/0418-muscling-in-on-muscle-loss.cfm>
3. Boyle AM: Better anaerobic fatigue measures could help improve quality of life with MS. *U.S. Medicine – 2017 Compendium of Federal Medicine*. May 31, 2017: <http://www.usmedicine.com/2017-compendium-of-federal-medicine/better-anaerobic-fatigue-measures-could-help-improve-quality-of-life-with-ms/> (Seamon BA and **Harris-Love MO**; doi: 10.3389/fneur.2016.00194)

Selected Manuscripts, Abstracts, and Other Scholarship in Progress

† designates submitted or invited papers with M. Harris-Love as the lead, co-lead, or senior author

1. †Gonzales TI, Hernandez HJ, Seamon BA, Pennington D, McIntosh V, Blackman MR, **Harris-Love MO**: Alterations in stepping kinetics and leg strength are associated with knee arthritis asymmetries in Veteran men. *Current Aging Science*. Submitted.
2. †**Harris-Love MO**, Adams B, Ismail C, Liu F, Hernandez HJ, McIntosh V, Yang J, Chacko L, Kondapaneni S, Conner AG, Blackman MR: Identifying and staging sarcopenia in older men using sonographic proxy measures of muscle mass and muscle quality. *Experimental Gerontology*. Submitted.
3. †**Harris-Love MO**, Ismail C, Zabala J, Woletz P, Gomes A, Gallo LH, Blackman MR, DiPietro P: Muscle strength and patterns of muscle echogenicity in younger and older women. *European Journal of Translational Myology*. Submitted.

Peer Reviewed Scientific and Professional Presentations

International (** designates international presentations among multiple meeting sites)

1. **Harris-Love MO**, Boncella KL, Oranchuk DJ, McIntosh V, Adams B, Blackman MR: The relationship among strength, muesli texture, and echogenicity: Effects of body-mass scaling, sonographic scanning plane, and age. Poster presentation, 2024 International Conference on Frailty & Sarcopenia Research (ICFSR), Albuquerque, NM, USA
2. Gollie JM, **Harris-Love MO**, Oranchuk DJ, Kim D, Scholten J, Stone D, Blackman MR: Body mass adjusted lower extremity torque and its relationship with physical function in United States Veterans. Poster presentation, 2024 International Conference on Frailty & Sarcopenia Research (ICFSR), Albuquerque, NM, USA
3. **Harris-Love MO**, Gonzales TI: Use of second order texture features and computational approaches to aid ultrasound estimates of muscle quality across clinical settings. Platform presentation, 2022 International Conference on Frailty & Sarcopenia Research (ICFSR), Boston,

MA, USA

4. **Harris-Love MO**, Delgado C, Gollie J, Katari S, Argani S, Leasure E, Blackman MR, Patel S: Improving the utility of the sarcopenia diagnostic algorithm in older patients with chronic kidney disease by integrating muscle quality and body weight adjusted strength values. Poster presentation, 2021 International Conference on Frailty & Sarcopenia Research (ICFSR), Virtual Conference.
5. McBride E, Mamyrova G, **Harris-Love MO**, Premkumar A, Koziol D, Yao J, Yao L, Shrader J, Curiel RV, Rider LG: Preliminary validation of rectus femoris muscle ultrasound in juvenile dermatomyositis. Poster presentation, 2019 3rd Global Conference on Myositis, Berlin, Germany.
6. Gomes A, Gallo LH, Rodrigues EV, Filho JM, da Silva JB, **Harris-Love MO**: Virtual dance exercise on skeletal muscle mass of community-dwelling older women. Poster presentation, 2018 World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases, Krakow, Poland.
7. Gonzales TI, Hernandez HJ, Seamon BA, Pennington D, McIntosh V, Blackman MR, **Harris-Love MO**: Alterations in stepping kinetics and leg strength are associated with knee osteoarthritis asymmetries. Poster presentation, 2017 21st IAGG World Congress of Gerontology and Geriatrics quadrennial conference, San Francisco, CA.
8. **Harris-Love MO**, Hernandez HJ, Gonzales TI, Seamon BA, Pennington D, McIntosh V, Blackman MR: Muscle morphology measures from quantitative ultrasound are associated with knee arthritis status. Poster presentation, 2017 21st IAGG World Congress of Gerontology and Geriatrics quadrennial conference, San Francisco, CA.
9. **Harris-Love MO**, Lake WJ, Joe GO, Newton LJ, Miller F, Rider LG, Shrader J: Characterizing muscle performance in subjects with juvenile idiopathic inflammatory myopathies: what is the utility of isokinetic testing? Poster presentation, 2017 62nd Global Conference on Myositis, Potomac, MD, USA.
10. Saxena A, Shrader J, **Harris-Love MO**, Turnquist P, Levy E, Jain M, Volochayev R, Jansen A, Yip A, Rider LG, Paul S, Miller F: Quantitative fixed frame maximum voluntary isometric contraction testing is reliable in people with idiopathic inflammatory myopathies. Poster presentation, 2017 62nd Global Conference on Myositis, Potomac, MD, USA.
11. **Harris-Love MO**: Alternative Clinical Imaging Measures of Muscle Quality: Impact of Muscle Quality on Functional Performance and Sarcopenia Staging. Platform presentation, 2016 International Conference on Frailty & Sarcopenia Research (ICFSR), Philadelphia, PA, USA.
12. **Harris-Love MO**, Adams B, Ismail C, Hernandez HJ, McIntosh V, Yang J, Chacko L, Blackman MR, Garra BS: Ultrasound proxy measures of muscle quality are associated with strength and functional performance in older men. Poster presentation, 2015 International Conference on Frailty & Sarcopenia Research (ICFSR), Boston, MA, USA
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13. **Harris-Love MO**, Avila N, Adams B, Ismail C, Zaidi SH, Kassner CA, Liu F, Blackman MR: Ultrasound echogenicity at the rectus femoris predicts attenuation on computed tomography in the evaluation of thigh tissue composition. Poster presentation, 2015 International Conference

on Frailty & Sarcopenia Research (ICFSR), Boston, MA, USA.

14. **Harris-Love MO**, Seamon BA, Teixeira C, Ismail C: Ultrasound estimates of myosteatosis: reliability and comparison of Adobe Photoshop® and ImageJ for grayscale analysis of muscle echogenicity. Poster presentation, 2015 International Conference on Frailty & Sarcopenia Research (ICFSR), Boston, MA, USA.
15. **Harris-Love M**, Croarkin E, Paul SM, DiProspero N: Content and discriminant validity of upper extremity force control testing for people with Friedreich ataxia. Poster presentation, 2007 WCPT Conference, Vancouver, Canada.
16. **Harris-Love M**, Shrader S, Davenport T, Rakocevic G, McElroy B, Dalakas M: What is the relationship among repeated heel raises, plantar flexor peak force, and functional performance in people with muscle disease? Poster presentation. 2007 WCPT Conference, Vancouver, Canada.
17. **Harris-Love MO**, Shrader, JA: Physical therapy management of patients with HIV-associated Kaposi's sarcoma: a case report series. Poster presentation, 2002 Sixth International Conference on Malignancies in AIDS and Other Immunodeficiencies: Basic, Epidemiologic and Clinical Research, Bethesda, MD

National

18. **Harris-Love MO**: Getting a faculty position: from application to hire. Session: Academic positions in an R1 institute – Search Committees. Platform presentation, 2023 APTA Combined Sections Meeting, San Diego, CA.
19. **Harris-Love MO**, Boncella KL, Oranchuk DJ, Rush A., Bodkin, SG: Relationship between quadriceps echogenicity and knee extensor strength in older adults: A systematic review and meta-analysis. Poster presentation, 2023 Gerontological Society of America Annual Scientific Meeting, Tampa, FL.
20. **Harris-Love MO**, Hoover BM, Leasure E, McIntosh V, Adams B, Yang J, Chacko L, Blackman MR: Cross validation of lean body mass predictors using muscle quality and pragmatic sarcopenia outcomes. Poster presentation, 2021 APTA Combined Sections Meeting, Virtual Conference.
21. **Harris-Love MO**, Bodkin SG, Hoover BM, Boncella K, Leasure E, McIntosh V, Blackman MR: Relationships between the Promis Physical Function Questionnaire and Objective Measures of Function in Aging Veterans. Poster presentation, 2021 APTA Combined Sections Meeting, Virtual Conference.
22. Bodkin SG, Hertel J, Bruce AS, Diduch DR, Saliba SA, Novicoff WM, Hart JM, **Harris-Love MO**: Patient function in serial assessments throughout the post-ACL reconstruction progression. Poster presentation, 2021 APTA Combined Sections Meeting, Virtual Conference.
23. **Harris-Love M**, Gonzales TI, Lee G, Wei Q, Nelson C, Ismail R, Gollie JM: The influence of subcutaneous fat and ultrasound attenuation on the muscle strength/echogenicity relationship. Poster presentation, 2020 APTA Combined Sections Meeting, Denver, CO.
24. **Harris-Love M**, Hoover BM, McIntosh V, Gonzales TI, Liu F, Yang J, Chacko L, Kondapaneni S, Conner AG, Blackman MR: Staging sarcopenia with diagnostic ultrasound: integrating muscle mass, quality, and strength. Poster presentation, 2019 APTA Combined Sections Meeting, Washington, DC.

25. Seamon BA, **Harris-Love M**, Wallin M, Maloni H, Hoover BM, Blackman MR: Ultrasound measures of muscle morphology are associated with disease status and muscle performance in individuals with multiple sclerosis. Poster presentation, 2019 APTA Combined Sections Meeting, Washington, DC.
26. Seamon BA, **Harris-Love M**, Benson K, Wallin M, Maloni H, Hoover BM, Blackman MR: Use of the Adult Myopathy Assessment Tool (AMAT) to quantify functional impact of fatigue in individuals with multiple sclerosis. Poster presentation, 2019 APTA Combined Sections Meeting, Washington, DC.
27. Gollie JM, **Harris-Love MO**, Patel SS, Argani S: Chronic Kidney Disease: Considerations for Monitoring Skeletal Muscle Health and Resistance Exercise Prescription, Platform presentation. 2019 APTA Combined Sections Meeting, Research Section, Washington, DC.
28. **Harris-Love MO**, Lorbergs A; Co-Presenters and Panelists: Beyond the Greyscale: Research and Clinical Approaches to Quantify Myosteotosis Using Imaging, Workshop: Myosteotosis in the Context of Skeletal Muscle Function Deficit. Division of Geriatrics and Clinical Gerontology, National Institute on Aging, National Institutes of Health, September 15, 2018, Bethesda, MD, USA (invitation-only NIH/NIA workshop panel).
29. **Harris-Love MO**, Pennington D, Avila NA, Adams B, Ismail C, Zaidi SH, Kassner CA, Kondapaneni S, Conner A, Liu F, Blackman MR: Is regional fat distribution a determinant of myosteotosis estimates in older men? Poster presentation. 2018 New Directions in Biology and Disease of Skeletal Muscle Conference, New Orleans, LA.
30. **Harris-Love MO**, Toch M, Hoover B, Hernandez H: Feasibility and efficacy of eccentric strengthening exercise for veterans with knee arthritis: participant and investigator perspectives. Poster presentation. 2018 Healthy Aging Summit, Office of Disease Prevention and Health Promotion, DHHS, Washington, DC.
31. **Harris-Love MO**, Ismail C, Monfaredi R, Woletz P, Ranniger C, Blackman MR: Quantitative ultrasound for sarcopenia screening: interrater reliability using a novel method of force feedback. Poster presentation. 2014 Gerontological Society of America Annual Scientific Meeting, Washington, DC.
32. **Harris-Love M**, Shrader J, Lake W, Joe G, Newton LJ, Miller F, Rider L: Which muscle performance and functional measures best discriminate subjects with juvenile idiopathic inflammatory myopathy from healthy control subjects? Poster presentation, 2009 Myositis Association Medical Advisory Board Meeting, Baltimore, MD.
33. **Harris-Love M**, Croarkin E, Paul SM, DiProspero N: Validity of force control testing for people with Friedreich ataxia in clinical settings. Poster presentation, 2009 APTA Section on Research – Research Retreat: Mechanisms Underlying Disordered Movement: Impairments with Force Generation. Pacific Grove, CA.
34. **Harris-Love M**, Shrader JA, Davenport T, Rakocevic G, McElroy B, Dalakas M: Repeated single-limb heel raises are not associated with manual muscle test results or peak plantarflexion force in people with muscle disease. Poster presentation, 2008 APTA Combined Sections Meeting, Nashville, TN.

34. Moini B, **Harris-Love MO**, Pokrovnichka A, Pahlajani N, Barham B, Plotz P: Muscle weakness in myositis: where to look? Poster presentation, 2005 ACR/ARHP Annual Scientific Meeting, San Diego, CA.
35. **Harris-Love MO**, Joe G, Abbett K, Koziol D: Performance-based assessment of functional limitation and muscle endurance: reliability of the Adult Myositis Assessment Tool. Poster presentation, 2005 APTA Combined Sections Meeting, New Orleans, LA.
36. **Harris-Love MO**, Croarkin, E: Gradation of force control in children with Friedreich ataxia: reliability and content validity. Poster presentation, 2004 American Congress of Rehabilitation Medicine Annual Conference, Ponte Vedra Beach, FL.
37. Gorman PH, **Harris-Love MO**, Cohen LG: Central fatigue induced by a sustained maximum voluntary muscle contraction: a transcranial magnetic stimulation study. Poster presentation, 2003 APTA Annual Conference & Exposition, Washington, DC.
38. **Harris-Love MO**, Davenport TE: Content validity of the anaerobic muscle endurance test. Poster presentation, 2003 APTA Annual Conference & Exposition, Washington, DC.
39. **Harris-Love MO**, Gorman PH, Fiscella C: Pilot study: reliability of anaerobic fatigue indices derived from maximal isometric and isokinetic tests. Poster presentation, 2001 ACSM 48th Annual Meeting, Baltimore, MD.
40. **Harris-Love MO**, Gorman PH, Danoff JV: Correlation and reliability of anaerobic fatigue indices in healthy adults performing maximal isometric elbow flexion. Poster presentation, 2001 APTA Combined Sections Meeting, San Antonio, TX.

Regional & Local

41. Boncella KL, Mañago MM, Seamon BA, Wallin MT, Maloni H, Hoover B, Blackman MR, **Harris-Love MO**: (2023) Ultrasound measures of muscle morphology in multiple sclerosis and its relation to patient characteristics, muscle performance and functional mobility. Poster Presentation, 2023 12th International Symposium on Gait and Balance in Multiple Sclerosis. Aurora, CO.
42. Gonzalez-Rivera D, Boncella KL, **Harris-Love MO**: The use of quantitative bioimaging to extract texture features from clinical ultrasound scans. Poster Presentation, 2023 SACNAS National Diversity in STEM Conference. Portland, OR.
43. Summers W, Boncella KL, Oranchuk D, Gonzalez-Rivera D, **Harris-Love MO**: The QUALITY Vets study: quantitative ultrasound assessment of lean and intramuscular adipose tissue in Veterans. Oral Presentation, 2023 36th Annual Gersten Day Rehabilitation Scientific Symposium. Aurora, CO
44. Boncella K, **Harris-Love MO**: The association of sonographic muscle texture with physical performance in Veterans with chronic kidney disease. Poster presentation, 2022 National Veterans Affairs Research Week, Rocky Mountain Regional VAMC, Aurora, CO.
41. Heald E, Joe G, **Harris-Love MO**, Zampieri C, Bradley K, Carrillo N, Shrader JA: Interrater reliability of the Adult Myopathy Assessment Tool in individuals with GNE myopathy. Poster presentation, 2019 NIH Postbaccalaureate Program, Bethesda, MD.

42. Benson K, **Harris-Love MO**, Seamon BA, Wallin M, Maloni H, Hoover B, Blackman MR: Use of the Adult Myopathy Assessment Tool as a predictor of functional abilities in people with multiple sclerosis. Poster presentation, 2019 National Veterans Affairs Research Week, Washington, DC
43. Gollie J, Hoover B, McIntosh V, **Harris-Love MO**: Improving neuromuscular health and function using eccentric-overload resistance exercise in Veterans with chronic kidney disease predialysis. Poster presentation, 2019 National Veterans Affairs Research Week, Washington, DC.
44. Gollie J, Hoover B, McIntosh V, **Harris-Love MO**: Relationship between skeletal muscle properties and physical function in Veterans with chronic kidney disease predialysis. Poster presentation, 2018 National Veterans Affairs Research Week, Washington, DC.
45. Hoover B, Argani S, Patel S, McIntosh V, Katari S, Leasure E, **Harris-Love MO**: Perceived and objective measures of functional status in Veterans with chronic kidney disease. Poster presentation, 2018 National Veterans Affairs Research Week, Washington, DC.
46. Gonzales TI, Ismail C, Woletz P, Manning H, Zabal J, DiPietro L, **Harris-Love MO**: Statistical modeling of musculoskeletal ultrasound images reveals correlates of age-related muscle performance. Poster presentation, 2017 22nd Annual Research Days Symposium, George Washington University, Washington, DC.
47. Gonzales TI, Hernandez HJ, Seamon BA, Pennington D, McIntosh V, Blackman MR, **Harris-Love MO**: Muscle strength and stair stepping performance in Veterans with knee arthritis. Poster presentation, 2016 National Veterans Affairs Research Week, Washington, DC.
48. Hernandez HJ, **Harris-Love MO**, Hoover B, Falcon L, Argani S: The VA Innovators Network project at the DC VAMC: screening for muscle wasting in Veterans with chronic kidney disease. Poster presentation, 2016 National Veterans Affairs Research Week, Washington, DC.
49. Chanpimol S, Seamon BA, Hernandez HJ, **Harris-Love MO**, Scholten J, Blackman MR: Balance and endurance outcomes for chronic TBI using the Xbox Kinect. Poster presentation, 2016 National Veterans Affairs Research Week, Washington, DC.
50. **Harris-Love MO**, Avila N, Adams B, Hernandez HJ, Seamon BA, Zaidi SH, Kassner CA, McIntosh V, Yang J, Chacko L, Blackman MR: The use of ultrasound to assess muscle quality and aid the sarcopenia diagnostic process. Poster presentation, 2016 National Veterans Affairs Research Week, Washington, DC.
51. Hernandez HJ, Adams B, Seamon BA, McIntosh V, Richards S, Blackman MR, **Harris-Love MO**: Are muscle characteristics and performance related to self-reported knee arthritis symptoms? Poster presentation, 2015 National Veterans Affairs Research Week, Washington, DC.
52. **Harris-Love MO**, Hernandez HJ, Adams B, Ismail C, McIntosh V, Richards S, Blackman MR: Acute response to submaximal eccentric exercise in Veterans with knee osteoarthritis. Poster presentation, 2014 National Veterans Affairs Research Week, Washington, DC.
53. **Harris-Love MO**, Monfaredi R, Ismail C, Lynch T, Hernandez HJ, Adams B, Liu F, Blackman MR, Garra B, Cleary K: Force, Sound, and Image: quantifying the effect of sound transducer

force on material deformation using a contractile tissue mimetic. Poster presentation, 2014 National Veterans Affairs Research Week, Washington, DC.

54. **Harris-Love MO**, Ismail C, Zabal J, Manning H, Colgan M, Hernandez HJ, Adams B, Blackman MR: Innovative approaches to sarcopenia screening using diagnostic ultrasound: a pilot study. Poster presentation, 2014 19th Annual Research Days Symposium, George Washington University, Washington, DC.
55. Ismail C, Hernandez HJ, Adams B, Zabal J, Manning H, **Harris-Love MO**: Sonographic estimates of muscle quality: reliability of 3 different methods of grayscale analysis. Poster presentation, 2014 19th Annual Research Days Symposium, George Washington University, Washington, DC.
56. **Harris-Love MO**, Scholten J, Blackman MR, Cobbs E, Hernandez H, Breceda-Tinoco EY: The DC VAMC Polytrauma and Traumatic Brain Injury Rehabilitation Research Fellowship Program. Poster presentation, 2013 National Veterans Affairs Research Week, Washington, DC.
57. Lake W, **Harris-Love M**, Joe G, Newton LJ, Miller F, Rider L, Shrader J: Characterizing muscle performance in subjects with juvenile idiopathic inflammatory myopathies: what is the utility of isokinetic testing? Poster presentation, 2008 NIH Summer Research Program, Bethesda, MD.
58. Costello E, Embrack T, Halvaksz J, **Harris-Love M**, Livingston S, Maring J, Plack MM, Rogers G: Research Initiatives in the Doctor of Physical Therapy Program. Poster presentation, 2007 Inauguration Research Days for the George Washington University, Washington, DC.
59. Turnquist P, Shrader S, Levy E, **Harris-Love M**, Paul S: Quantitative muscle strength and fatigue testing: assessment of reliability and validity. Poster presentation, 2007 NIH Summer Research Program, Bethesda, MD.
60. Manoel ME, Miller TA, Danoff JV, **Harris-Love MO**: Acute effects of static, dynamic, and proprioceptive neuromuscular facilitation stretching on muscle torque in women. Poster presentation, 2006 Mid-Atlantic Regional Chapter of the American College of Sports Medicine, Harrisburg, PA.
61. Benson K, **Harris-Love MO**, Baker S, Rakocevic G, Dalakas M: Peak muscle force and gait kinematics in subjects with inclusion body myositis. Poster presentation, 2005 NIH Summer Research Program, Bethesda, MD
62. Abbett K, **Harris-Love MO**, Joe G, Koziol D: Intrarater and interrater reliability of the Adult Myositis Assessment Tool. Poster presentation, 2004 NIH Summer Research Program, Bethesda, MD.
63. Davenport TE, **Harris-Love MO**: Skeletal muscle anaerobic performance and functional capacity: content validity of a clinical assessment of fatigue. Poster presentation, 2001 NIH Summer Research Program, Bethesda, MD.
64. Atwood AL, **Harris MO**, O'Brien KN, Stiller TL: The effects of neurodevelopmental treatment on hemiplegic gait: analysis of temporal variables. Poster presentation, 1997 Minnesota APTA Spring

Conference, Brooklyn Center, MN.

65. Lindstedt SL, **Harris MO**: Pilot study – evidence for the importance of trunk tasks in respiratory muscle training. Platform presentation, 1995 Arizona/NASA Space Grant Undergraduate Research Internship Symposium, Arizona State University, Tempe, AZ.

Non-Peer Reviewed Scientific and Professional Presentations

International

1. **Harris-Love MO**: Symposium: Advances in Skeletal Muscle Ultrasound in the Assessment of Sarcopenia. Panelist, 2022 International Conference on Frailty & Sarcopenia Research (ICFSR), Boston, MA, USA.
2. **Harris-Love MO**: Symposium: Muscle Quality in Skeletal Muscle Function Deficit and Other Aging-Related Muscle Dysfunctions: The Need for Standardized Assessment. Panelist, 2016 International Conference on Frailty & Sarcopenia Research (ICFSR), Philadelphia, PA, USA.
3. **Harris-Love MO**: Manual Muscle Test Considerations for Assessing Strength in Myositis. Speaker, 2002 NIH/NIEHS; International Myositis Workshop, University College, London, UK (video conference).
4. **Harris-Love MO**: Manual Muscle Test Considerations for Myositis Clinical Trials. Speaker, 2001 International Workshop on Myositis Outcome Measures and Clinical Trial Design Issues – Defining Improvement in Adult and Juvenile Myositis, San Francisco, CA (video conference).

National

5. **Harris-Love MO**: Presenter and Panelist, PhD and Post-Doctoral Training at Historically Black Colleges and Universities. Webinar: Value of a PhD, Post-Professional Education & Career in PT Academia, American Council of Academic Physical Therapy, April 14, 2022.
6. **Harris-Love MO**: Panelist, Emerging from a Pandemic as a Better Version (and Leader) of Yourself, Webinar, Leadership Academy, American Council of Academic Physical Therapy, June 9, 2021.
7. **Harris-Love MO**, Lorbergs A: Beyond the Greyscale: Research and Clinical Approaches to Quantify Myosteotosis Using Imaging. Co-Presenter and Panelist, 2018 Workshop: Myosteotosis in the Context of Skeletal Muscle Function Deficit. Division of Geriatrics and Clinical Gerontology, National Institute on Aging, National Institutes of Health, September 15, 2018, Bethesda, MD, USA (invitation-only NIH/NIA workshop panel).
8. **Harris-Love MO**: Memory, Mentors, and Muscle: Establishing Muscle Health as a Geriatric Vital Sign in the VA. Speaker and Panelist, 2017 VA Diversity and Inclusion Summit: Building the Workforce Pipeline of Tomorrow, Session: Potential Pathways for Trainees, VA Office of Academic Affiliations, Meharry Medical College, Nashville, TN.
9. **Harris-Love MO**: From the Fenn Effect to the Piezoelectric Effect: Assessing and Managing Sarcopenia. Speaker, 2016 8th Annual Medical Electronic Device Realization Center (MEDRC) Workshop, Institute for Medical Engineering and Science, Massachusetts Institute of Technology, Cambridge, MA.

10. **Harris-Love MO**, Delgado C: The QUALITY Vets Project. Speaker, 2016 VA Innovation Demonstration Day, Veterans Affairs Center for Innovation, Booz Allen Hamilton Innovation Space, Washington, DC.
11. **Harris-Love MO**: Quantity versus Quality: Can Sonographic Muscle Imaging Change the Sarcopenia Screening Paradigm? Speaker, 2016 Symposium: Insights into Comparative Physiology (in honor of Professor Stan Lindstedt), Center for Bioengineering Innovation, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ.
12. **Harris-Love MO**: Sarcopenia: Defining a Practice & Policy Dilemma. Inaugural Plenary Speaker, 2015 Health Policy & Practice Management Faculty Institute, Department of Physical Therapy, Arcadia University, King of Prussia, PA.
13. **Harris-Love MO**: The Sarcopenia Project: People, Practice, Profession. Speaker and Project Team Leader, 2014 APTA Innovation 2.0 Workshop: Phase II of Grant Review, Alexandria, VA.
14. **Harris-Love MO**: Ultrasound Applications for Rehabilitation Research. Speaker, 2012 MedStar NRH Ultrasound Symposium: Applications in Acute and Chronic Pain, Washington, DC.
15. **Harris-Love MO**: Rehabilitation and Fitness for Myositis. Speaker, 2007 Online seminar, The Myositis Association, Washington, DC.
16. **Harris-Love MO**, Shrader JA: Fitness Across the Lifespan: Exercise for Every Level of Function. Speaker, 2006, Myositis Association Annual Conference, Orlando FL.
17. **Harris-Love MO**: Exercise Research and Myositis: A Call to Action. Speaker and Expert Medical Panel member, 2006, Myositis Association Annual Conference, Orlando FL.
18. **Harris-Love MO**: Therapeutic Exercise and Myositis: Exercise Principles and Treatment Innovations. Speaker, 2001 Myositis Association of America Annual Conference, San Diego, CA.
19. **Harris-Love MO**: Therapeutic Exercise and Idiopathic Inflammatory Muscle Disease. Speaker, 2000 Myositis Association of America Annual Conference, McLean, VA.

Regional & Local

20. **Harris-Love MO**: The Utility of Muscle Texture Analysis to Assess Muscle Health in Older Adults, Speaker, Institute of Exercise Physiology and Rehabilitation Science (IEPRS) 3rd Annual Conference, School of Kinesiology and Rehabilitation Sciences, University of Central Florida, Orlando, FL.
21. **Harris-Love MO**: White Coat & Oath Ceremony, Keynote Speaker, Department of Physical Therapy, Wingate University, Wingate, NC.
22. **Harris-Love MO**: The Sarcopenia Pursuit: The Path of Most Resistance, Keynote Speaker, 2022, Regis University Research Symposium, Regis University, Denver, CO.
23. **Harris-Love MO**: Student, Instructor, and Leadership Perspectives, Speaker, 2021, Professional Development Seminar, Northern Arizona University Doctor of Physical Therapy Program, Flagstaff, AZ.

24. **Harris-Love MO:** Finding Your Research Voice: Mentorship, Myopia, & Meaning, Speaker, 2021, Professional Development Seminar, Northern Arizona University Doctor of Physical Therapy Program, Flagstaff, AZ.
25. **Harris-Love MO:** The Sarcopenia Syndrome: Scientific Pursuit Along the Mentorship Pathway, Keynote Speaker, 2021, Research Day, Mayo Clinic School of Health Sciences Physical Therapy Program, Rochester, MN.
26. **Harris-Love MO:** Less Than Ideal, But More Than Adequate: The Reality of Non-Linear Research Careers, Speaker, 2021, Successful Career Trajectory Talk Series, Advanced Geriatric Research Fellows Didactics, VA Eastern Colorado Geriatric Research Education and Clinical Center, Aurora, CO.
27. **Harris-Love MO:** Adapting in a COVID World | PT Experiences Across the Spectrum. Speaker for a jointly sponsored 2021 webinar by the Physical Therapy Program, Office of Advancement, and Physical Therapy Program Alumni Association at the University of Colorado School of Medicine, Aurora, CO.
28. **Harris-Love MO:** The Power of Philanthropy in the Physical Therapy Program, Speaker, 2020, Office of Advancement, University of Colorado School of Medicine, Aurora, CO.
29. **Harris-Love MO:** Moderator, PM&R Pilot Projects, 2020 32nd Annual Gersten Day Rehabilitation Scientific Symposium Physical Medicine & Rehabilitation Department, University of Colorado School of Medicine, Virtual Conference, Aurora, CO.
30. **Harris-Love MO:** Eccentric Exercise: From Research Anomaly to Rehabilitation Applications. Speaker, 2019 32nd Annual Gersten Day Rehabilitation Scientific Symposium Physical Medicine & Rehabilitation Department, University of Colorado School of Medicine, Nighthorse Campbell Native Health Building, Aurora, CO.
31. **Harris-Love MO:** The Sarcopenia Diagnosis – Lost in Translation? Speaker, 2018 Research Grand Rounds, MedStar Health Research Institute and the Georgetown-Howard Universities Center for Clinical and Translational Science. MedStar Washington Hospital Center, True Auditorium, Washington, DC.
32. **Harris-Love MO:** Quantitative Ultrasound and Tissue Composition: How Should Muscle Quality Affect the Sarcopenia Screening and Staging Process? Speaker, 2016 Interdisciplinary Studies on Aging Section, Laboratory of Epidemiology and Population Science, National Institute on Aging, NIH, Bethesda, MD.
33. **Harris-Love MO:** The Sarcopenia Diagnosis: Making the Leap from Research to Practice. Speaker, 2016 Geriatrics and Palliative Care Grand Rounds, Geriatrics and Extended Care, Washington DC VA Medical Center.
34. **Harris-Love MO:** Rehabilitation in Motion: PM&R Research at the DC VAMC. Speaker, 2015 The San Zhen Rehabilitation Hospital Delegation Visit, Physical Medicine and Rehabilitation Service, Washington DC VA Medical Center.
35. **Harris-Love MO:** Knee Osteoarthritis and Resistance Exercise: Beyond Strength Development. Speaker, 2014 Arthritis Foundation - Mid Atlantic Region, Metropolitan Washington, Washington D.C.
36. **Harris-Love MO:** The 3MAP Lab: Geriatric Research at the DC VAMC. Speaker, 2014 Grand

Rounds, Geriatrics and Extended Care, Washington DC VA Medical Center.

37. **Harris-Love MO:** How to Study a Study and Test a Test. Speaker, 2009 Rehabilitation Fellows Grand Rounds, MedStar NRH Medical Student Program, MedStar National Rehabilitation Hospital, Washington, DC.
38. **Harris-Love MO:** Muscle Performance and the Older Adult: From Theory to Practice. Speaker, 2008 Grand Rounds, Geriatrics and Extended Care, Washington DC VA Medical Center.
39. **Harris-Love MO:** The Role of the Physical Therapist in Geriatric Medicine. Speaker, 2006 Professional Development Program/Fellows Education Continuum Lecture Series, The Washington DC Area Geriatric Education Center Consortium (0.3 CEUs).
40. **Harris-Love MO:** The Manual Muscle Test: Moving Towards Standardization. Speaker, 2005 Rituximab in Myositis Investigators' Meeting, University of Pittsburgh.
41. **Harris-Love MO, Croarkin E:** Gradation of Force Control in Children with Friedreich Ataxia. Co-presenter, 2004 Research Seminar Series, Department of Physical Therapy and Rehabilitation Science, University of Maryland, Baltimore, MD.
42. **Harris-Love MO:** Validation of Force Control Testing in Children with Friedreich Ataxia. Speaker, 2003 Grand Rounds, Rehabilitation Medicine Department, NIH, Bethesda, MD.
43. **Harris-Love MO:** Single System Design in Rehabilitation Research. Speaker, 2003 Grand Rounds, Rehabilitation Medicine Department, NIH, Bethesda, MD.
44. **Harris-Love MO:** Assessing Muscle Force and Fatigue: Lessons From a Neuromuscular Disease Practice. Speaker, 2002 Northern Arizona University – Physical Therapy Alumni Association, High Altitude Lecture Series, Flagstaff, AZ (0.3 CEUs).
45. **Harris-Love MO:** Carl Markus Memorial Presentation - Parkinson's Disease: Activity, Exercise, and Intervention. Speaker, 1999 American Parkinson Disease Association – Delmarva Chapter Annual Meeting, Peninsula Regional Hospital, Salisbury, MD.

Funded/In Review Grant Activity

Ongoing Support

I01CX002836 M. Harris-Love, DSc (PI) 2024 – 2028

VA Merit Award (BCCMA, Clinical Science Research and Development; funded, \$1,200,000)

Exercise and Monitoring with Post-Hospitalization Muscle Atrophy to Sustain Intrinsic Capacity and Strength (EMPHASIS)

Our research team is partnering with the Baltimore VAMC to address the critical problem of post-hospitalization disuse muscle atrophy in a patient population with a high risk of muscle dysfunction and hospitalization – Veterans with chronic kidney disease.

Role: Principal Investigator

IK24 AG082527 K. Erlandson (PI) 2023 – 2028

NIH Career Development Award for Clinicians/Health Professionals (K24; National Institute of Allergy and Infectious Diseases/National Institute of Arthritis and Musculoskeletal and Skin Diseases; funded, \$961,000)

Mentoring Across Disciplines: Aging and Infectious Diseases with a Focus on Mobility

The purpose of this bench and the bedside project is to gain training in more portable measures of muscle quantity and quality tools for dissemination and implementation, and to implement these outcomes into a research intervention trial comparing two different exercise intensities in people with HIV.

Role: Consultant, preceptor, and R.A. supervisor

IK2RX004242 M. Manago (PI; Trainee) 2022 – 2027

VA Career Development Award (RMR VAMC; CDA-2; VA/ORD/RR&D; funded, \$950,000)

Low-Load Resistance Training with Blood Flow Restriction in People with Multiple Sclerosis and Advanced Disability: A Randomized Control Trial

The purpose of this project is to: 1) elucidate the role of low-load resistance training with blood flow restriction in mitigating disability in those with MS and 2) determine changes in muscle morphology and physical function following the intervention.

Role: Co-Mentor

T32AG000279 S. Bodkin (PI; Trainee) 2021 – 2023

University of Colorado T32 Training Grant – Integrative Physiology of Aging (Dept. of Geriatrics, CU Anschutz; NIH/NIA; funded, \$110,000)

Location and Specific Quantification of Intramuscular Adipose Tissue in Middle-Age and Older, Obese Adults

The goal of this project is to determine how intramuscular adipose tissue (IMAT) distribution differs between middle-age and older individuals, and examine how clinical imaging and IMAT location may be able to identify people at risk for age-related muscle dysfunction.

Role: Mentor

Patient Improvement Project M. Harris-Love, DSc (PD) 2020 – 2022

VHA Geriatric Research Education and Clinical Centers, VA CARES Act (VHA/RMR VAMC/ECHS GRECC; funded, \$295,000)

Detection of strength deficits during telerehabilitation using low-cost smartphone medical diagnostics

The purpose of this project is to implement a low-cost smartphone grip strength and rapid questionnaire self-assessment to identify Veterans with secondary sarcopenia due to COVID-19 and chronic conditions. Positive test findings will initiate a full assessment for rehabilitative intervention to prevent disablement associated with musculoskeletal deficits. The short-term goal is to effectively identify Veterans at risk for disability secondary to muscle impairments due to COVID-19 and chronic conditions to facilitate timely and appropriate care while reducing avoidable hospitalizations. The long-term goal is to overcome the limitations of the physical exam during telerehabilitation visits to enhance the care of all Veterans who receive virtual patient care due to pandemic conditions or rural access gaps.

Role: Project Director

Pilot Grant A. Smith (PI) 2020 – 2021

CU Anschutz School of Medicine, Physical Medicine & Rehabilitation Research Pilot Grant (CU AMC/PM&R; funded, \$25,000)

Machine Learning to Quantify Muscle Changes, Lean Body Mass, and Function in Obese Adults

The purpose of this study is to develop a machine-learning model to automatically calculate muscle cross sectional area, rapidly estimate lean body mass and intramuscular fat, and predict the functional status of obese adults.

Role: Co-Mentor, Co-Investigator

IK2RX003423 J. Gollie (PI; Trainee) 2020 – 2025

VA Career Development Award (DC VAMC; CDA-2; VA/ORD/RR&D; funded, \$951,625)

Objective and Subjective Measures of Fatigability in Veterans with Chronic Kidney Disease Before and After Flywheel Resistance Plus Aerobic Exercise

The purpose of this project is to: 1) advance our understanding of performance fatigability and perceived fatigability, and the association with neuromuscular capacity in Veterans with CKD stage 3 & 4 predialysis and 2) determine the extent to which combination flywheel resistance exercise plus aerobic exercise training can improve fatigability status, neuromuscular capacity, and physical function.

Role: Co-Mentor

IRX001854A M. Harris-Love, DSc (PI) 2015 – 2020
Cost extension 2020 – 2021
VA HBCU Research Scientist Training Program (DC VAMC/Howard University; VA/ORD/RR&D; funded, \$1,248,233)

Detection and Treatment of Sarcopenia and Myosteatorsis in Older African Americans

The research objectives of this grant are to: 1) validate a rapid, portable, cost-effective, sonographic method for screening myosteatorsis and sarcopenia that may be suitable for ambulatory and non-ambulatory older adults, 2) determine if accounting for myosteatorsis improves the sarcopenia diagnostic model in African Americans, and 3) develop a novel approach to assess changes in muscle and tendon stiffness secondary of myosteatorsis and sarcopenia.

Role: Principal Investigator

38 U.S.C. 7406 M. Harris-Love, DSc (Co-PD) 2013 – 2020
VA Office of Academic Affairs – VA Advanced Fellowships Program (VA/ORD/RR&D-OAA; funded, \$1,596,896)

Interprofessional Polytrauma and Traumatic Brain Injury Rehabilitation Research Fellowship

This fellowship is intended to develop clinicians and scientists with the vision, knowledge, and commitment to lead polytrauma and TBI efforts throughout the VA and the nation. Specifically, we have targeted doctorally-trained physical therapists for in-depth training in advanced clinical care and clinical research in polytrauma, TBI, and related disorders. Career development is fostered through formal mentorship, didactic training at Georgetown University, and 75% protected time for research and training.

Role: Co-Project Director, faculty/mentor, principal grant authorship and curricular development

Completed Support and Submissions

TL1TR001431 D. Pennington, PhD (Trainee) 2017 – 2019
NIH/NCATS, The Georgetown-Howard Universities Center for Clinical and Translational Science Consortium (NIH CTSA; funded, \$97,000)

Determining the association of body adiposity distribution with focal measures of myosteatorsis in African American men

The purpose of this TL1 project was to determine the influence of major fat depots on the expression of focal myosteatorsis estimates in older African American men.

Role: Co-Mentor and Laboratory Co-Supervisor

UL1TR000101 M. Harris-Love, DSc (PI) 2017 – 2018
PTCS Program, Georgetown-Howard Universities CTSA Consortium (NIH CTSA; funded, \$37,600)

Mobile Muscle Health: Transdisciplinary Approaches to Screening African Americans with CKD

A transdisciplinary project regarding mobile muscle imaging for Veterans with chronic kidney disease (CKD). Study collaborators include clinicians and bioengineers from Howard University, SF VAMC, and MIT.

Role: Principal Investigator

AM-251 12-11-2015 M. Harris-Love, DSc (Co-PI) 2016 – 2017
VA Innovators Network, Spark-Spread-Seed Award (VA/VACI; funded, \$46,000)

The QUALITY Vets Project

A joint initiative by the DC VAMC and the SF VAMC which promotes the assessment of musculoskeletal health among Veterans with chronic kidney disease (CKD). Key study objectives of this VA Center for Innovation-supported project include identifying Veterans with CKD at risk for incident mobility limitations, and determining a pragmatic strategy to integrate sarcopenia screening into the baseline assessment.

Role: Co-Principal Investigator; Site Lead Investigator

VISN 5 Pilot Research Grant M. Harris-Love, DSc (PI) 2014

VHA/VA Capitol Health Care Network (VISN 5; VA Station: 688; funded, \$30,000)

Creating a Model of Proactive Geriatric Care within VISN 5: Screening for Age-Related Skeletal Muscle Dysfunction at the Washington DC VA Medical Center

The overall goal of this project is to better understand the relationship among sonographic estimates of muscle size and muscle tissue composition with metabolic dysfunction.

Role: Principal Investigator

UL1TR000075 M. Harris-Love, DSc (Co-PI) 2014

CTSI-CN (GW/Children's National) – Innovative Strategies and Services Voucher Award (NIH CTSA; funded, \$10,000)

Sarcopenia Screening: Development of a Feedback-Augmented, Portable, Ultrasound Prototype

The grant will support the design and fabrication of a 2nd generation prototype ultrasound stabilization arm with gyrosopes and force-sensitive resistors to enhance the utility and reliability of the measurement technique via computer-assisted feedback.

Role: Co-Principal Investigator

RX-13-011 M. Harris-Love, DSc (PI) 2013

RR&D Small Projects in Rehabilitation Research (SpiRE; DC VAMC; VA/ORD/RR&D; not funded)

Chronic Inflammation and Insulin Sensitivity Following Negative Work Exercise in Older Men with Sarcopenia

The purpose of this proposal was to determine the efficacy of eccentric training to manage chronic low-level inflammation and insulin sensitivity in older Veteran men.

Role: Principal Investigator

RX-11-020 M. Harris-Love, DSc (PI) 2011

Career Development Award (DC VAMC; VA/ORD/RR&D; approved via scientific review; funds not released by ORD, \$150,000)

Chronic Inflammation and Insulin Sensitivity Following Negative Work Exercise in Older Men with Sarcopenia

The purpose of this proposal was to determine the efficacy of eccentric training to manage chronic low-level inflammation and insulin sensitivity in older Veteran men.

Role: Principal Investigator

B2056RA (Supplement) P. Lum, PhD (PI) 2008

Supplemental Equipment Grant – VA Merit Award (VA/ORD/RR&D; funded, \$115,000)

Extension of the MIME Robotic System for Stroke Rehabilitation

The purpose of this grant was to obtain a state-of-the-art motion analysis system to be a shared resource for rehabilitation research at the DC VAMC. The equipment supports ongoing research and enables new studies involving restoration of motor function after neuromuscular injuries.

Role: Co-Investigator

ACR REF Award M. Harris-Love, DSc (PI) 2007

Health Professional New Investigator Award, American College of Rheumatology – Research and Education Foundation (ACR/ARHP; not funded)

Efficacy of Negative Work Exercise for Adults with Myositis

The purpose of this proposal was to optimize exercise-based interventions for people with myositis and obtain career development training.

Role: Principal Investigator and Trainee

07-E-0012 L. Rider, MD (PI) 2007 – 2011

NIH/NIEHS (funded via NIH Intramural Research Program)

Rituximab in the Treatment of Refractory Adult and Juvenile Dermatomyositis (DM) and Adult Polymyositis (PM)

The purpose of this study was to evaluate the safety and effectiveness of the drug rituximab in people with DM and PM. Secondary outcomes include quantitative strength assessment.

Role: Associate Investigator

05-N-0245 K. Fischbeck, MD (PI) 2005 – 2008

NIH/NINDS (funded via NIH Intramural Research Program)

Double-Blind, Placebo-Controlled Phase II Clinical Trial to Determine the Safety and Efficacy of Idebenone Administered to Patients with Friedreich Ataxia

The investigators determined the safety and efficacy of idebenone in reducing the level of oxidants that are believed to damage the nervous system and heart in patients with Friedreich ataxia.

Role: Associate Investigator

05-HG-0236 W. Gahl, MD, PhD (PI) 2005 – 2006

NIH/ NHGRI (funded via NIH Intramural Research Program)

Pilot Study of the Use of Intravenous Immune Globulin in Hereditary Inclusion Body Myopathy

The investigators evaluated the effects of immune globulin (IG) treatment on muscle and muscle function in people with hereditary inclusion body myopathy.

Role: Key Personnel

94-E-0165 F. Miller, PhD (PI) 2003 – 2010

NIH/ NIEHS (funded via NIH Intramural Research Program)

Studies in the Natural History and Pathogenesis of Childhood-Onset and Adult-Onset Idiopathic Inflammatory Myopathies

The purpose of this study was to evaluate the etiology of childhood-onset myositis and the medical complications resulting from the associated immune system dysfunction. Secondary aims included understanding the relationship between muscle characteristics as measured by diagnostic ultrasound and peak muscle power generation.

Role: Associate Investigator

04-N-0133 M. Dalakas, MD (PI) 2003 – 2007

NIH/NINDS (funded via NIH Intramural Research Program)

Alemtuzumab to Treat Sporadic Inclusion Body Myositis

The primary goal of this study was to investigate the effects of a T cell-depleting monoclonal antibody on white blood cells featuring the CD52 surface protein.

Role: Associate Investigator

02-N-0121 M. Dalakas, MD (PI) 2003 – 2010

NIH/NINDS (funded via NIH Intramural Research Program)

Immune Dysregulation and Inclusion Body Myositis

The goals of this interdisciplinary natural history study were to better understand specific mechanisms of autoimmune dysregulation and factors influencing rehabilitation outcomes.

Role: Associate Investigator

02-AR-0156 P. Plotz, MD (PI) 2002 – 2010

NIH/NIAMS (funded via NIH Intramural Research Program)

A Randomized, Double-Blind, Placebo-Controlled Trial of Infliximab In Patients With Dermatomyositis and

Polymyositis

Infliximab blocks the effects of tumor necrosis factor on the inflammation cascade associated with many diseases. The purpose of this study is to examine if infliximab (Remicade) is safe and effective for the treatment of dermatomyositis and polymyositis. Secondary outcomes include objective muscle fatigue and timed tests of function.

Role: Associate Investigator

94-CC-0130B M. Harris-Love, MPT (PI) 2001 – 2002
NIH/CC/RMD (funded via NIH Clinical Center)

Pilot Protocol – Validity of the Anaerobic Endurance Test

Development of a functional test battery to assess muscle capacity of individuals with idiopathic inflammatory myopathy.

Role: Principal Investigator

94-CC-0130A M. Harris-Love, MPT (PI) 2000 – 2003
NIH/CC/RMD (funded via NIH Clinical Center)

Pilot Protocol – Reliability of Isometric Fatigue Testing Using the Biodex System 2 Dynamometer

Development of a functional test battery to assess muscle capacity of individuals with idiopathic inflammatory myopathy.

Role: Principal Investigator

87-N-0110 L. Cohen, MD (PI) 2000 – 2002
NIH/NINDS (funded via NIH Intramural Research Program)

Transcranial Magnetic Stimulation and Anaerobic Fatigue

Examination of the central and peripheral contributions to anaerobic fatigue during an upper extremity task.

Role: Associate Investigator

00-AR-0117 P. Plotz, MD (PI) 2000 – 2001
NIH/NIAMS (funded via NIH Intramural Research Program)

Phase II Trial of Anti-C5 Antibody for Patients with Myositis

This was a randomized, third-party, placebo-controlled pilot study of h5G1.1-mAb, an antibody directed at the complement component C5, administered to patients with dermatomyositis with persistent disease.

Role: Associate Investigator

94-CC-0130 G. Chi-Fishman, PhD (PI) 2000
NIH/Clinical Center (funded via NIH Intramural Research Program)

Ultrasound Assessment of Chronic Post-Exercise Muscle Morphology - A Pilot Study

The investigators explored the responsiveness of diagnostic musculoskeletal ultrasound associated with the post-exercise changes in biceps brachii following acute bouts of resistance training.

Role: Associate Investigator

95-AR-0139 P. Plotz, MD (PI) 1999 – 2003
NIH/NIAMS (funded via NIH Intramural Research Program)

Efficacy of Methimazole in Patients with Myositis

This open label pilot study assessed the activity of methimazole (MMI), a down-regulator of MHC Class I transcription used in treatment of autoimmune thyroiditis (AIT), on the tissue expression of HLA class I and its efficacy as measured by serum muscle enzyme levels and manual muscle testing in up to twenty

patients with dermatomyositis (DM) or polymyositis (PM)..

Role: Key Personnel

AZ/NASA Space Grant M. Harris (Trainee)/S. Lindstedt, PhD (Supervisor) 1994 – 1995

Arizona/National Aeronautics Space Administration Grant (\$5,000, funded)

The Effects of Respiratory Muscle Progressive Resistance Exercise on Ventilatory Capacity

The purpose of this study was to determine the effect of targeted respiratory muscle strengthening on maximum oxygen uptake in recreational cyclists.

Role: Trainee

IBN 9317527 M. Harris (Trainee)/S. Lindstedt, PhD (Supervisor) 1993 – 1994

National Science Foundation, Research Experience for Undergraduates Grant (\$5,000, funded)

Pulmonary Physiology Research Training

The purpose of this training program was to provide laboratory experience and training opportunities for undergraduate students.

Role: Trainee

Membership in Scientific/Professional Organizations

2022 – Present	Member, Society of Worthingham Fellows, American Physical Therapy Association
2020 – Present	Member, National Association of Black Physical Therapists
2014 – Present	Member, Gerontological Society of America – Health Sciences Section
2004 – 2011, 2013 – Present	Member, Association of Rheumatology Health Professionals
1999 – 2011, 2014 – Present	Member, National Strength and Conditioning Association
1997 – Present	Member, Mayo Clinic Physical Therapy Alumni Association
1995 – Present	Member, American Physical Therapy Association <ul style="list-style-type: none">a. The Academy of Neurologic Physical Therapy – Degenerative Diseases SIGb. The Academy of Geriatric Physical Therapyc. Colorado Chapter (2019)d. Research Section (2013)

Consultative and Advisory Positions Held

Editorial Positions

2024 – 2025	Editor, Research Topic Issue, "Advancing Muscle Health: From Technical and Clinical Research to Practice", <i>Frontiers in Rehabilitation Sciences – Sections:</i>
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Rehabilitation for Musculoskeletal Conditions and Translational Research in Rehabilitation

- 2021 – Present Associate Editor, *Frontiers in Rehabilitation*
- 2021 – Present Editor, Research Topic Issue, "Innovative Imaging Approaches to Advance Musculoskeletal Rehabilitation", *Frontiers in Rehabilitation Sciences – Rehabilitation for Musculoskeletal Conditions*
- 2019 – Present Editorial Board, *Current Aging Science*
- 2018 – Present Editorial Board, *Journal of Functional Morphology and Kinesiology*
- 2018 – 2019 Special Issue Editor, "Eccentric Exercise: Adaptations and Applications for Health and Performance", *Journal of Functional Morphology and Kinesiology*
- 2015 – Present Review Editor, *Frontiers in Medicine - Rheumatology*

Research Consultative and Advisory Positions

- 2021 Organizer, Supporting Women Leaders: An Anti-Racist, Intersectional Dialogue, Physical Medicine and Rehabilitation Department – Learning, Development, and Inclusion Initiative, University of Colorado School of Medicine, Aurora, CO; Facilitators: Amy Bonomi, PhD, MPH and Callie Rennison, PhD
- 2021 Organizer, Symposium: Rehabilitation Perspectives on Muscle Dysfunction Across the Lifespan, American Academy of Physical Medicine and Rehabilitation 2021 Annual Assembly, Nashville, TN
- 2019 – 2023 Advisory Board Member, Comprehensive Opportunities for Rehabilitation Research Training (CORRT) Multicenter Career Development Program for Physical and Occupational Therapy
- 2017 – 2019 Voting Member – Alternate, Research & Development Committee, Washington DC VA Medical Center
- 2016 Co-Organizer, Symposium: Muscle Quality in Skeletal Muscle Function Deficit and Other Aging-Related Muscle Dysfunctions: The Need for Standardized Assessment, 2016 International Conference on Frailty & Sarcopenia Research (ICFSR), Philadelphia, PA, USA
- 2016 – 2019 Member, Human Research Protection Working Group, Research & Development Committee, Washington DC VA Medical Center
- 2015 – 2019 Member, Clinical Research Center Utilization Committee, Research and Development Service, VA Medical Center, Washington, DC
- 2012 – 2015 Member, Research Building Annex Project Working Group – Rehabilitation Core, Research and Development Service, VA Medical Center, Washington, DC
- 2008 – 2015 Affiliate Staff Member, Biostatistics Core, Research and Development Service,

VA Medical Center, Washington, DC

- 2006 – 2011 Member, Rituximab in Myositis Study, Division of Rheumatology and Clinical Immunology, NIEHS/University of Pittsburgh
 a. Steering Committee
 b. Publications Committee
- 2006 – 2008 Program Representative, Affiliation Agreement – The United States Veterans Health Administration and The George Washington University, Program in Physical Therapy, School of Medicine and Health Sciences
- 2005 – 2011 Lead Physical Therapy Educator, The Rituximab in Myositis Study, Division of Rheumatology and Clinical Immunology, University of Pittsburgh (a multi-center clinical trial with 29 sites)
- 2001 – 2011 Member, The International Myositis Assessment and Clinical Studies (IMACS) Group
 a. Contributor, 4th IMACS Workshop, Preliminary Definitions of Improvement in Adult and Juvenile Myositis
 b. Contributor, 2nd IMACS Workshop – Developing Consensus on Outcomes and Clinical Trial Issues in Adult and Juvenile Myositis
- 1999 – 2005 NIH Clinical Center Intramural Research Program – Project Liaison
- | <i>Institute/Center</i> | <i>Year(s)</i> |
|---|----------------|
| National Human Genome Research Institute (NHGRI) | 2005 |
| National Institute of Environmental Health Sciences (NIEHS) | 2003 – 2005 |
| National Institute of Neurological Disorders and Stroke (NINDS) | 2000 – 2005 |
| National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) | 1999 – 2005 |

Clinical Education and Practice Consultative Positions

- 2017 – 2021 Member, Cochrane Rehabilitation Field, E. Spalenza-Don Gnocchi Rehabilitation Centre, Largo Paolo VI, Brescia, Italy
- 2007 – 2013 Member, The National Collaborative on Aging at GW, Washington, DC
- 2007 – 2009 Member, The Muscle and Training in Childhood Auto Inflammatory Disease Group (McAID), The Hospital for Sick Children, Toronto, Canada
- 2001 Member, Wheelchair Policy and Procedures Committee, Rehabilitation Medicine Department, NIH/CC
- 1999 – 2002 Founding Coordinator, Annual NIH Physical Therapy Lecture Series, Rehabilitation Medicine Department, NIH/CC

Community Service

Selected Non-Academic Community Service

- 2022 Panelist, SteMed Science and Medicine Club, STEM School Highlands Ranch, Highlands Ranch, CO
- 2022 Panelist, Health Sciences Exposure Day, Aurora Science and Tech High School, Bruce Schreffel Conference Center, University of Colorado Hospital, Aurora, CO
- 2021 Speaker, Medical Careers at Smoky Hill High School, Smoky Hill High School, Aurora, CO
- 2018 Volunteer and Presenter, Science Expo, Burroughs Elementary, Washington, DC
- 2018 Volunteer, New York Ave Shelter Clean Up, Catholic Charities of Washington, Washington, DC
- 2013 – 2014 Volunteer, Arthritis Foundation - Mid Atlantic Region, Metropolitan Washington, Washington, DC

National Administrative Professional Service

- 2022 – 2023 Invited Participant, 2022 National Equity, Diversity, and Inclusion Commission (NEDIC) Summit, American Council of Academic Physical Therapy (ACAPT), Ohio State University, Columbus, OH
- a. NEDIC Task Force – Systemic Discrimination and Racism Mitigation
- 2021 – 2023 Advisory Panel Member, GSA Fellows Review Panel – Health Sciences Section, The Gerontological Society of America
- 2020 Invited Contributor, Statement on Racism and Systemic Inequality: Supporting Black Lives in Physical Therapy Education, American Council of Academic Physical Therapy (ACAPT)
- 2020 – Present Member, National Association of Black Physical Therapists
- a. Education Committee
 - b. Emerging Leadership Program Committee
 - c. Strategic Planning Task Force
- 2019 – Present Member, Geriatrics Research, Education, and Clinical Center Advisory Subcommittee, Geriatrics and Gerontology Advisory Committee, Department of Veterans Affairs
- 2019 – Present, 2001 – 2011 Member, The International Myositis Assessment and Clinical Studies (IMACS) Group, National Institute of Environmental Health Sciences, National Institutes of Health/European League Against Rheumatism
- 2013 – 2016 Member, Journal Publications Committee, American College of Rheumatology
- 2012 – 2015 Member, Neurology Fellowship Task Force, Neurology Section, American Physical Therapy Association
- 2010 – 2013 Vice-Chair, Degenerative Diseases SIG, Neurology Section, American Physical Therapy Association
- 2005 – 2010 Member, The Myositis Association
- a. Medical Advisory Board
 - b. Nomination Committee

Academic and Professional Society Reviewer Service

Federal & International Research Organizations

- 2023 External Reviewer, NWO Talent Programme, Vidi - Applied and Engineering Sciences (AES), Dutch Research Council (NWO), Netherlands
- 2022 Member, Quadrennial Scientific Merit Review Panel, Rehabilitation Medicine Department, National Institutes of Health Clinical Center, Bethesda, MD. (90-CC-0168, A Rigid Body Database on Human Movement)
- 2018 – Present Grant Reviewer, Informatics Standing Review Panel (HSR3), Health Services Research and Development (HSR&D), Scientific Merit Review Board (SMRB), Veterans Health Administration, Washington, DC
- 2017 Grant Reviewer, Special Emphasis Panel/Scientific Review Group (R15), Neuroscience AREA Grant Applications, Center for Scientific Review, National Institutes of Health, Bethesda, MD
- 2017 – 2018 International External Grant Reviewer, Programme Clinical Research (KLIF), The Austrian Science Fund (FWF, Fonds zur Förderung der wissenschaftlichen Forschung), Vienna, Austria
- 2016* Grant Reviewer, Special Emphasis Panel/Scientific Review Group, RR&D HBCU Meeting, VA- ORD, Veterans Health Administration, Washington, DC (*Cycle II and Cycle IV)
- 2015 Grant Reviewer, Special Emphasis Panel/Scientific Review Group (U01), National Institute on Aging, National Institutes of Health, Bethesda, MD
- 2015 – 2016* Grant Reviewer, Scientific Merit Review Board, RR&D Small Projects in Rehabilitation Research (SPiRE), VA-ORD, Veterans Health Administration, Washington, DC (*Cycle I and Cycle III)
- 2014 Grant Reviewer, Pilot Grant Program, VA Capitol Health Care Network (VISN 5), Veterans Health Administration, Washington, DC

Professional Societies & Advocacy Groups

- 2023 – Present Member, Colorado Chapter, National Association of Black Physical Therapists
- 2020 – 2023 Co-Chair, Diversity, Equity, and Inclusion Committee, Colorado Chapter, American Physical Therapy Association
- 2020 – 2022 Member, The Pacific DEI Collective, School of Physical Therapy, Pacific University
- 2005 Grant Reviewer, Ataxia UK
- 2005 – 2007, 2009 Grant Reviewer, The Myositis Association

Academic & Biomedical Institutions

- 2022 External Reviewer, Faculty Tenure and Promotion, Department of Orthopaedic Surgery at the University of California, San Diego (promotion to Associate Professor), San Diego, CA
- 2021 Review and Sponsorship, Emeritus Faculty Appointment, Dr. Margaret Schenkman, University of Colorado School of Medicine, Aurora, CO
- 2018 Grant Reviewer, Pilot Translational and Clinical Studies Program, Georgetown-Howard Universities Center for Clinical and Translational Science, Washington, DC
- 2012 – 2014 Grant Reviewer, KL2 Program, Georgetown-Howard Universities Center for Clinical and Translational Science, Washington, DC
- 2009 – Present Protocol Reviewer, Research and Development Service, DC VAMC, Washington, DC
- 2006 External Reviewer, Faculty Tenure and Promotion, Department of Exercise Science, The George Washington University (promotion to Professor), Washington, DC
- 2001 – 2005 Member, Rehabilitation Research Review Committee, Rehabilitation Medicine Department, NIH, Bethesda, MD

Peer Review – Manuscripts, Abstracts, Textbooks, and Other Publications

- 2018 – Present Ad Hoc Reviewer, *Sports*
- 2018 Ad Hoc Reviewer, *Disability & Rehabilitation*
- 2017 – Present Reviewer, *The Federal Practitioner*
- 2017 Ad Hoc Reviewer, *Journal of NeuroEngineering and Rehabilitation*
- 2017 Abstract Reviewer, 21st IAGG World Congress of Gerontology and Geriatrics
- 2017 – Present Ad Hoc Reviewer, *Journal of Cachexia, Sarcopenia and Muscle*
- 2017 – Present Ad Hoc Reviewer, *Calcified Tissue International*
- 2016 – 2018 Ad Hoc Reviewer, *The Journal of Rheumatology*
- 2016 Ad Hoc Reviewer, *Journal of the American Geriatrics Society*
- 2016 – Present Ad Hoc Reviewer, *Frontiers in Exercise Physiology*
- 2016 Ad Hoc Reviewer, *The Orthopaedic Journal of Sports Medicine*
- 2016 – 2017 Abstract Judge, GW Research Days, Student Research Awards Ceremony, School of Medicine and Health Sciences, The George Washington University
- 2015 – 2016 Ad Hoc Reviewer, *Archives of Gerontology and Geriatrics*
- 2015 Ad Hoc Reviewer, *Frontiers in Human Neuroscience*
- 2015 – Present Reviewer, *Physical Therapy*
- 2015 Ad Hoc Reviewer, *Journals of Gerontology. Series A: Medical Sciences*

- 2015 – Present Review Editor, *Frontiers in Medicine - Rheumatology*
- 2015 – Present Ad Hoc Reviewer, *PLoS ONE*
- 2013 – 2014 Ad Hoc Reviewer, *International Journal of STD & AIDS* (Subtopic area: rheumatic disorders and HIV)
- 2012 Book Chapter Reviewer; PB Raven, DH Wasserman, WG Squires, TD Murray: *Exercise Science: An Integrated Approach*. Wadsworth Cengage Learning; 1st edition; 2012
- 2004 – Present Reviewer, *Arthritis Care & Research*
- 2004 Ad Hoc Reviewer, *Current Rheumatology Reviews*
- 2003, 2005 Ad Hoc Reviewer, *The Outlook for the Inflammatory Myopathies*, The Myositis Association
- 2000 – 2002 Manuscript Reviewer, Rehabilitation Medicine Department, NIH

Pre/Post-Professional Program Instruction and Program Support

- 2023 Preceptor – Mock Interviews, Preparation in Interdisciplinary Knowledge to Excel Postbaccalaureate Research and Education Program (PIKE-PREP, R25, NIH/NIGMS), University of Colorado Anschutz Medical Campus, Aurora, CO
- 2022 Speaker, “Preparation, Pathways, Purpose”, PIKE-PREP Seminar – My Path to Graduate School, Preparation in Interdisciplinary Knowledge to Excel Postbaccalaureate Research and Education Program (PIKE-PREP, R25, NIH/NIGMS), University of Colorado Anschutz Medical Campus, Aurora, CO
- 2022 – Present Mentor, Preparation in Interdisciplinary Knowledge to Excel Postbaccalaureate Research and Education Program (PIKE-PREP, R25, NIH/NIGMS), University of Colorado Anschutz Medical Campus, Aurora, CO
- 2021 Instructor, “Research Trajectory: Pearls, Pitfalls, and Perspective”, GRECC and COIN Advanced Research Fellows, Works-In-Progress Seminar - Successful VA Research Career Trajectory Series, VA Eastern Colorado Health Care System
- 2022 Panelist, “Applying for a CDA”, VA DEI Supplement Awardees, Diversity, Equity and Inclusion Working Group, National Quarterly Call, VA Office of Research
- 2017 – 2019 Faculty Member, The Neurorehabilitation and Restorative Neuroscience Training Network (K12HD093427, NIH/NICHHD), National Rehabilitation Hospital, Washington, DC
- 2017 – 2019 Course creator and instructor, “Biostatistics for Rehabilitation Research”, P/TBI Fellowship Program, Didactic Training Series, Physical Medicine & Rehabilitation, Washington DC VA Medical Center
- 2016 – 2019 Member, Program Consultant Committee, Orthopedic Physical Therapy Residency, Physical Medicine & Rehabilitation, Washington DC VA Medical Center

- 2015 – 2019 Course creator, faculty coordinator, and instructor, “Career Development Seminar”, P/TBI Fellowship Program, Didactic Training Series, Physical Medicine & Rehabilitation, Washington DC VA Medical Center
- 2009, 2010 Co-Instructor, “Clinical Strength Assessment for Geriatricians,” Geriatrics Fellows Didactic Training Series, Geriatrics and Extended Care, Washington DC VA Medical Center
- 2005, 2006† Lead instructor, “10-Point Manual Muscle Testing Training for Use in Therapeutic Trials,” Rehabilitation Medicine Department, NIH and the University of Pittsburgh (lectures, labs, teaching materials, and organization; 8 hours,; † course taught twice)
- 2000 – 2003 Instructor, “Evaluation and Treatment of Patients with Myositis”, Rheumatology Rehabilitation Lecture Series, Rehabilitation Medicine Department, NIH, Bethesda, MD
- 1998 – 1999 Co-instructor, Clinical Education Didactics, Mayo Medical Center, St. Mary’s Hospital – Rehabilitation Unit, Rochester, MN
- a. Balance Assessment and Documentation, with Heidi Dunfee, PT
 - b. Cerebral Palsy and Functional Gait Analysis, with Staci Eischen, PT
 - c. Elements of the Foot Evaluation, with Mary Wehde

Service to the University/College/School on Committees/Councils/Commissions

University, School, and College Service

- 2023 – 2024 Member, Faculty Promotion and Tenure Task Force, Office of Strategic Initiatives, University of Colorado Anschutz Medical Campus
- 2022 – 2023 Group Lead, Hybrid Pathway Operations Task Force, School of Medicine, University of Colorado Anschutz Medical Campus and College of Nursing and Health Sciences, University of Colorado Colorado Springs
- 2022 Member, Associate Dean of Diversity, Equity and Inclusion Search Committee, School of Medicine, University of Colorado Anschutz Medical Campus
- 2022 Participant, DEI Roundtable Discussion with President Todd Saliman, Office of Diversity, Equity, Inclusion and Community Engagement, University of Colorado Anschutz Medical Campus
- 2022 Member, Black Men in White Coats Youth Summit Steering Committee, School of Medicine, University of Colorado Anschutz Medical Campus
- 2020 – Present Member, School of Medicine Department Diversity Leadership Group, Office of Diversity and Inclusion, University of Colorado Anschutz Medical Campus
- 2020 – Present Member, Online Education Advisory Group, Office of Strategic Initiatives, University of Colorado Anschutz Medical Campus
- 2020 – Present Member, BIPOC Tenured/TTF Community of Practice, University of Colorado Denver | Anschutz Medical Campus
- 2020 Member, Faculty Search Committee, College of Engineering, Design and

Computing, University of Colorado Denver

- 2016 – 2019 Member, Scientific Evaluation and Prioritization Committee, The Georgetown-Howard Universities Center for Clinical and Translational Science Consortium
- 2012 – 2019 Member, Faculty Advisory Committee, The Center for Aging, Health, and the Humanities, George Washington University
- 2005 – 2010 Member, Advisory Committee, Post-Professional Doctoral Programs, Krannert School of Physical Therapy, University of Indianapolis

Department Service

- 2021 – Present Member, Research Steering Committee Meeting, Department of Physical Medicine and Rehabilitation, Children's Hospital Colorado
- 2021 – Present Chair, PM&R Diversity, Equity, and Inclusion Committee, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2021 – Present PM&R Representative, Chairs Committee, Neuroscience Innovation Initiative, Department of Neurosurgery, University of Colorado School of Medicine
- 2019 – Present Member, Hybrid DPT Program Development Committee, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Member, PM&R Executive Committee, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Member, PM&R Research Oversight Committee, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Chair, The Rocky Mountain Rehabilitation Research Consortium (RMRRCC) Exploratory Committee, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Chair, Center for Academic Leadership and Clinical Education Task Force, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2007 Member, Faculty Search Committee, The Department of Clinical Management and Leadership, George Washington University
- 2006 – 2009 Member, Committee on Health Sciences Student Evaluation, The Department of Health Care Sciences, George Washington University

Program Service

- 2022 – 2023 Chair, CU PT 75th Anniversary Celebration Planning Committee, Physical Therapy Program, University of Colorado School of Medicine
- a. 2022 Health Promotion Symposium: The Power of Connection in Physical Therapy Practice
 - i. Keynote: Dr. Jonathan Samet, Dean of the Colorado School of Public Health
 - b. CU PT 75th Anniversary Gala, Anschutz Health Science Building
 - i. Keynote: Dr. John Reilly
 - ii. Inaugural Lawrence Award, Dr. Roderick Nairn

c. CU PT Wikipedia & Oral History Project

- 2022 – Present Faculty Lead, CU PT BIPOC Student Roundtable, Physical Therapy Program, University of Colorado Anschutz Medical Campus
- 2019 – Present Member, Senior Faculty Committee, Physical Therapy Program, University of Colorado School of Medicine
- 2019 – Present Institutional Representative, The American Council of Academic Physical Therapy
- 2019 – Present Member, CU Physical Therapy Scholarship and Endowment Board, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Member, Rehabilitation Science PhD Program Advisory Committee, Physical Therapy Program, University of Colorado School of Medicine
- 2019 – Present Chair, Faculty Advisory Committee, Physical Therapy Program, University of Colorado School of Medicine
- 2019 – Present Member, Scholarship and Awards Committee, Program in Physical Therapy, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Applicant Interviewer, Recruitment and Admissions Committee, Program in Physical Therapy, Physical Medicine and Rehabilitation Department, University of Colorado School of Medicine
- 2019 – Present Applicant Reviewer and Interviewer, Rehabilitation Science PhD Program Advisory Committee, Physical Therapy Program, University of Colorado School of Medicine
- 2006 – 2008 Member, Curriculum Committee, Program in Physical Therapy, George Washington University
- 2006 – 2008 Chair, Facilities Management Committee, Program in Physical Therapy, George Washington University
- 2006 – 2008 Member, Marketing and Recruitment Committee, Program in Physical Therapy, George Washington University
- 2006 – 2008 Chair, Website Taskforce, Program in Physical Therapy, George Washington University
- 2006 – 2007 Member, Adjunct Faculty and Teaching Assistant Handbook Taskforce, Program in Physical Therapy, George Washington University
- 2006 – 2008 Member, Research Committee, Program in Physical Therapy, George Washington University
- 2006 – 2007 Member, Outcomes Committee, Program in Physical Therapy, George Washington University
- 2006 – 2008 Member, Admissions Committee, Program in Physical Therapy, George Washington University
- 2005 – 2007 Member, Post-Professional Programs Advisory Committee, Department of Physical

Therapy and Rehabilitation Science, University of Maryland, Baltimore, MD

Honors and Awards

Academic

- 2023 Champion of Allied Health Award, Mayo Clinic School of Health Sciences Alumni Association (the Association's highest honor for professional contributions)
- 2019 Joanne Posner-Mayer Endowed Chair in Physical Therapy, School of Medicine, University of Colorado
- 2017 Dale Shaffer Outstanding Alumnus Award, Mayo Clinic Physical Therapy Alumni Association
- 2008 – 2010 Fellowship Award, DC Clinical Research Training Consortium, Georgetown University/Children's National Hospital, NIH/NCRR, (Grant number: 5K30RR022272)
- 2004 Award for Academic Excellence, Krannert School of Physical Therapy, University of Indianapolis (Doctoral thesis award)
- 1998 Distinguished Alumni Award, College of Health Professions, Northern Arizona University
- 1997 Erik J. Aasen Award, Physical Therapy Program, Mayo School of Health Sciences
- 1996 – 1997 Minorities in Medicine Scholar, Jay and Rose Phillips Foundation, Mayo Foundation
- 1995 Exercise Science Graduate of the Year, College of Health Professions, Northern Arizona University
- 1995 Senior Scholar Award, Northern Arizona University
- 1995 President, Black Honor Society, Northern Arizona University
- 1994 – 1995 NASA, Arizona Space Grant Consortium Undergraduate Internship, Biology Department, Northern Arizona University
- 1994 Junior Scholar Award, Northern Arizona University
- 1993-1994 National Science Foundation Undergraduate Research Grant recipient, Biology Department, Northern Arizona University
- 1993 General Motors Volunteer Spirit Award

Professional

- 2023 Excellence in Mentoring, Preparation in Interdisciplinary Knowledge to Excel - Postbaccalaureate Research Education Program, University of Colorado Anschutz Medical Campus

2022	Catherine Worthingham Fellow of the American Physical Therapy Association
2019	Fellow, Health Sciences Section, The Gerontological Society of America
2019	Eugene Michels New Investigator Award, American Physical Therapy Association
2018	Training in Grantsmanship for Rehabilitation Research (TIGRR), National Center for Medical Rehabilitation Research (NCMRR), NIH (T15), Medical University of South Carolina
2014 – 2019	VA Historically Black College and University Research Scientist Training Award, VA/ORD/RR&D (CDA-2, IK2RX001854)
2013	Butler-Williams Scholar, National Institute on Aging, NIH (inaugural class)
2006 – 2007	United States Bone and Joint Decade: Young Investigator Initiative Fellowship Award
2005	NIH Intramural Loan Repayment Program Award, General Research LRP, “Idiopathic Inflammatory Myopathies – Assessment of Motor Function and Efficacy of Pharmacological and Rehabilitation Interventions.” (declined by recipient due to change in employment)
1999, 2004	Special Act Award, Rehabilitation Medicine Department, NIH Clinical Center
1991	Motorola Inc. Community Service Award, Arizona Council of Black Engineers and Scientists, Summer Program - Arizona State University

Continuing Education Attended (last 5 years)

2022 International Conference on Frailty & Sarcopenia Research, Boston, MA

2022 National Equity, Diversity, and Inclusion Commission (NEDIC) Summit, American Council of Academic Physical Therapy

2022 DEI Training: “Power & Privilege”, Department of Physical Medicine & Rehabilitation, University of Colorado Anschutz Medical Campus

35th Annual Gersten Day Rehabilitation Scientific Symposium, University of Colorado Anschutz Medical Campus

Co-Mentor Training Program, 2021-2022 Cohort, Colorado Clinical and Translational Sciences Institute, University of Colorado Anschutz Medical Campus, Aurora, CO

Women Leading Change in Academia. 2021 Spring PM&R DEI Educational Session, University of Colorado School of Medicine, Aurora, CO

2021 Rocky Mountain Annual Conference & PT Expo, APTA Colorado Chapter, Virtual Conference

2021 Combined Sections Meeting of the American Physical Therapy Association, Virtual Conference.

The Challenges of Sarcopenia: Definition, Underlying Mechanisms, Interventions, and Outcomes, American Physiological Society, 2021 Science of Aging Webinar Series.

2020 Combined Sections Meeting of the American Physical Therapy Association, Denver, CO.

Geological Society of America 2020 Annual Meeting, Virtual Conference

Educational Leadership Conference, 2020, Virtual Conference

2020 Rocky Mountain Annual Conference & PT Expo, APTA Colorado Chapter, Virtual Conference

Effective Teaching Practices – Certificate Program, 2019 Cohort – University of Colorado Denver, Association of College and University Educators in association with the American Council on Education, Denver, CO

Research Section Platform Presentations, 2019 Combined Sections Meeting of the American Physical Therapy Association, Washington, DC

Moving the Bar: The PT's Interprofessional Role in Prevention and Population Health, 2019 Combined Sections Meeting of the American Physical Therapy Association, Washington, DC

Perspectives and experience related to diversity and inclusion, recruiting diverse graduate students and research participants, Training in Grantsmanship for Rehabilitation Research (TIGRR), Medical University of South Carolina, Charleston, SC

Quantification and Analysis of Biological Aging: Genetic, Genomic, and Biomarker Geroscience Tools, 2017 21st IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA

Benefiting from the Third Demographic Dividend (Speaker, Linda Freed, MD), 2017 21st IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA

Overground locomotor training for chronic motor-incomplete spinal cord injury: a performance-based framework, National Rehabilitation Hospital Grand Rounds, Washington, DC, 2017

Epidemiology of Sarcopenia: Determinants Throughout the Lifecourse, 2016 International Conference on Frailty & Sarcopenia Research, Philadelphia, PA

What We Have Learned from Large Clinical Trials on Frailty and Sarcopenia, 2016 International Conference on Frailty & Sarcopenia Research, Philadelphia, PA

Physical Frailty and Sarcopenia: Magnitude of the Problem and Possible Solutions, 2016 International Conference on Frailty & Sarcopenia Research, Philadelphia, PA

Screening for Frailty and Sarcopenia, 2016 International Conference on Frailty & Sarcopenia Research, Philadelphia, PA

PTJ Manuscript Reviewer – Continuing Education Units: 2016 E-Learning Courses (LMS-711, LMS-727, and LMS-731)

Current Teaching Responsibilities in the Entry-Level Program

Spring Semester

IPED 5002: Interprofessional Collaborative Practice, Facilitator

DPTR 5111: Exercise Science, Lecturer

Summer Semester

n/a

Fall Semester

DPTR 6404: Musculoskeletal Conditions IV, Lecturer

Mentoring

Formal Mentorship Programs

2022	Participant, CO-Mentor Training Program, Colorado Clinical and Translational Sciences Institute, University of Colorado Anschutz Medical Campus
2020 – Present	Mentor, Each One Teach One Mentorship Program, National Association of Black Physical Therapists
2015 – Present	Neurologic Physical Therapy Mentor, Neurology Section, American Physical Therapy Association
2011 – 2017	VHA Mentor/Coach, Washington DC VA Medical Center
1998 – 2010	Consenting Mentor, American Physical Therapy Association

Thesis and Dissertation Committees

Katie Boncella, Research Advisor, PhD Program, Department of Bioengineering, College of Engineering, Design and Computing, University of Colorado Denver | Anschutz Medical Campus, Aurora, CO, 2024 - 2027

Wesley Thornton, PhD Qualifying Examination, PhD Program in Rehabilitation Sciences, Department of Physical Medicine and Rehabilitation, University of Colorado School of Medicine, Aurora, CO; Examiner, 2022

Andrea Marshall, “Muscle strength recovery in patients with knee osteoarthritis and total knee arthroplasty”, PhD Program in Rehabilitation Sciences, Department of Physical Medicine and Rehabilitation, University of Colorado School of Medicine, Aurora, CO; Doctoral Dissertation Committee, 2020 – 2022

Donte Pennington, “Effects of lower body resistance exercise training on glucose tolerance and cerebral/systemic endothelial function in obese African American women”, Department of Physiology and Biophysics, College of Medicine, Howard University, Washington, DC; External Reader, Doctoral Dissertation Committee, 2016 – 2017

Dina Drubach, “The progression of functional status and quality of life in patients with corticobasal degeneration”, Department of Physical Therapy and Rehabilitation Science, School of Medicine, University of Maryland, Baltimore, MD; Co-Advisor, Post-Professional Doctoral Committee, 2007 – 2009

Christina Russo, “The relationship between age, intrinsic motivation, and extrinsic motivation among regular cardiovascular exercisers”, Department of Exercise Science, School of Public Health and Health Services, The George Washington University, Washington, DC; Co-Advisor, Master’s Degree Thesis Committee, 2006 – 2008

Mateus Manoel, “Acute effects of static, dynamic, and PNF stretching on knee extension/flexion isokinetic torque in female subjects”, Department of Exercise Science, School of Public Health and Health Services,

The George Washington University, Washington, DC; Reader, Master's Degree Thesis Committee, 2006

Lab Supervision, Preceptorships, and Student Project Advisement

Exercise Science/Health Science Intern Supervisor, 3MAP Lab, VA Medical Center and George Washington University, Washington, DC

<i>Student</i>	<i>Program</i>	<i>Year(s)</i>
Courtney Nelson, BS	Prebaccalaureate Exercise Science Intern	2018
Gideon Obamwonyi, BS	Postbaccalaureate Health Science Intern	2016
Laura Falcon, BS	Postbaccalaureate Health Science Intern	2015 – 2016
Eytan Koch, BS	Postbaccalaureate Health Science Intern	2015
Valerie McIntosh, BS	Pre/Postbac. Exercise Science Intern	2014 – 2015
Carla Teixeira	Prebaccalaureate Exercise Science Intern	2014

Post-Doctoral Fellow Supervisor, Research Service/Physical Medicine & Rehabilitation Service, VA Medical Center, Washington, DC

<i>Student</i>	<i>Program</i>	<i>Year(s)</i>
Stephan Bodkin, PhD, ATC	CU Physical Therapy Program	2020 – 2021
	CU Geriatrics - NIH/NIA T32	2021 – 2022
Kim Benson, DPT, NCS	Polytrauma/TBI Research Rehab Fellowship	2018 – 2020
Donte Pennington, PhD	DC VAMC - NIH/NCATS TL1	2017 – 2019
Jared Gollie, PhD, CSCS	Polytrauma/TBI Research Rehab Fellowship	2017 – 2020
Bryant Seamon, DPT, CSCS	Polytrauma/TBI Research Rehab Fellowship	2014 – 2016
Haniel Hernandez, DPT	Polytrauma/TBI Research Rehab Fellowship	2013 – 2016

Research Advisor, Biostatistics and Data Management Core, Research Service, DC VAMC, Washington, DC

<i>Advisee</i>	<i>Program</i>	<i>Year(s)</i>
Shane Chanpimol, DPT	P/TBI Rehabilitation Research Fellow	2016 – 2017
Warren Lake, DPT	NIH Summer Internship Program in Biomedical Research	2013 – 2016
Joshua Woostenhulme, DPT	NIH PT Volunteer	2009

Laboratory Supervision/Work Study Supervision, George Washington University/DC VAMC, Washington, DC

<i>Student/Staff</i>	<i>Employment Category</i>	<i>Year(s)</i>
Dustin Oranchuk, PhD	Prof. Research Assoc.	2023
Katie Boncella, MS	Research Assistant	2020 – 2023
Connor Lewis, BS	Work Study Student	2020 – 2022
Tolulope Ijayekunle, RN	Research Nurse	2018 – 2020
Erin Leasure, BA	Laboratory Manager	2018 – 2020
Andrew Cope, BS	Research Assistant	2018 – 2020
Brian Hoover, MS	Clinical Coordinator	2015 – 2019
Valerie McIntosh, BS	Research Assistant	2015 – 2019
Donte Pennington, PhD	Research Assistant	2015 – 2017
Tomas Gonzales, MA	Laboratory Manager	2015 – 2017
Kimberly Hanson, DPT	Work Study	2008
Melissa Bodzinski, DPT	Work Study	2008
Catherine Denny, DPT	Work Study	2008
Michelle Hering, MS	Teaching Assistant	2008
Christina Russo, MS	Teaching Assistant	2006 – 2007
Emily Jadwin, BS	Teaching Assistant	2006 – 2007

Program Co-Administration and Project Advisement, Interprofessional Polytrauma and Traumatic Brain Injury Rehabilitation Research Fellowship, Research Service/Physical Medicine & Rehabilitation Service, VA Medical Center, Washington, DC

<i>Lead Trainee Mentors</i>	<i>Project</i>	<i>Year(s)</i>
Michael O. Harris- Love, DSc, MPT	Association of lower extremity anaerobic fatigue with impaired gait kinematics in Veterans with multiple sclerosis	2018 – 2020
Michael O. Harris- Love, DSc, MPT	Habitual activity for balance improvement and training for strength – an exercise program for Veterans with kidney injury and disease	2017 – 2020
Barbara Schwartz, PhD; Alex Libin, PhD	Health and Well-Being Risk Algorithm (HERALD) for Veterans with Traumatic Brain Injury	2017 – 2020
Julie Chapman, PsyD	Therapeutic guidance for traumatic brain injury using neurally-derived plasma exosomal RNAs	2017 – 2019
Marshall Balish, MD, PhD	Effects of a health promotion program to improve physical activity, sleep quality, and community integration in veterans with chronic TBI	2015 – 2017
Barbara Schwartz, PhD;	Implicit learning and motor behavior after TBI	2015 – 2018
Michelle L. Harris- Love, PhD, MPT		
Michael O. Harris- Love, DSc, MPT;	Quantitative fatigue and muscle performance in multiple sclerosis	2014 – 2016
Mitch Wallin, MD		
Friedhelm Sandbrink, MD; Michelle L. Harris- Love, PhD, MPT	Motor cortex physiology and upper extremity motor function following brain injury	2014 – 2016
Lindsay Crowell, DPT	Clinical Specialist appointment	2014 – 2015
Michael O. Harris- Love, DSc, MPT	Development of a negative work exercise regimen as an intervention for posttraumatic osteoarthritis of the knee	2013 – 2016
Alexander Libin, PhD	The relationship among community integration, disablement, and psychosocial domains in veterans with TBI-PTSD	2013 – 2015
Michelle L. Harris- Love, PhD, MPT	Understanding the neurophysiological mechanisms related to arm amputation and successful upper limb prosthesis use	2012 – 2013
Independent Study Student Supervisor, Doctoral Programs in Physical Therapy		
<i>Student</i>	<i>Course</i>	<i>Year(s)</i>
Marla MacRae, DPT	Research Methods for Health Professions	2006 – 2007
Cameron Jones, DPT	Clinical Conference	2006
Barbara Feltman, DHS, PT, CLT-LANA	Case Reports and Single System Design	2006
Post Baccalaureate Fellow Supervisor		
<i>Trainee</i>	<i>Program</i>	<i>Year(s)</i>

Daniela Gonzalez-Rivera, BS	NIGMS/CRTEC, R25, PIKE-PREP Program	2022 – 2023
Babak Moini, MS	NIAMS, Postbaccalaureate Intramural Research Training Assistant (co-advisor)	2005
Kimberly Benson, MPT	Summer Internship Program in Biomedical Research	2005
Kristen Abbett, MPT	NIH PT Volunteer Summer Internship Program in Biomedical Research	2003 2004
William Schrenk, MA	NIH PT Volunteer	2003
Todd Davenport, DPT	Summer Internship Program in Biomedical Research	2001
Catherine Fiscella, MPT	NIH PT Volunteer	2000 – 2001
Jason Regis, BA	NIH PT Volunteer	2000
Preceptor – Rheumatology, Rehabilitation Medicine Department, Clinical Center, NIH		
<i>Trainee</i>	<i>Program</i>	<i>Year(s)</i>
Lisa Christopher, MD	NIAMS Fellow; Topic: “Muscle performance and functional assessment of patients with myositis”	2004