

MARCIE HARRIS-HAYES, PT, DPT, MSCI

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Present Position:

Professor, Physical Therapy and Orthopaedic Surgery
Director, Rehabilitation Research for Orthopaedic Conditions (RROC) Laboratory

Education:

1994 BS, Biology, Missouri State University, Springfield, MO
1996 MPT, Physical Therapy, Northwestern University, Chicago, IL
2003 DPT, Physical Therapy, Washington University, St. Louis, MO
2010 MSCI, Postdoctoral Training with emphasis in Clinical Investigation, Washington University, St. Louis, MO

Academic Positions / Employment:

1997-2000 Physical Therapist, Barnes-Jewish Hospital, St. Louis, MO
2000-2005 Instructor, Washington University School of Medicine, Program in Physical Therapy, St. Louis, MO
2010-2011 Visiting Faculty, Indiana University, School of Health, Physical Education and Recreation, Department of Kinesiology, Bloomington, IN
2005-2012 Assistant Professor, Washington University School of Medicine, Physical Therapy and Orthopaedic Surgery, St. Louis, MO
2003-2013 Adjunct Faculty, Kaiser Permanente Orthopaedic Manual Therapy Fellowship and Movement Science Fellowship, Los Angeles, CA
2012-2018 Associate Professor, Washington University School of Medicine, Physical Therapy and Orthopaedic Surgery, St. Louis, MO
2018-Present Associate Professor, Washington University School of Medicine, Physical Therapy and Orthopaedic Surgery, St. Louis, MO

University and Hospital Appointments and Committees:

2003-2004 Clinical Advisory Committee
2003-2004 Physical Therapy Council
2002-2005 Sports Special Interest Group - Faculty Advisor (WUSM students)
2006-2007 Program Innovation Council
2007-2008 Executive Committee K12/K30
2002-2009 Admissions Committee
2012-2014 Center for Clinical Excellence, Hip/Knee Replacement Patient Centered Outcomes Pilot Committee
2015 Faculty Search Committee – Education Division
2000-Present Committee on Academic Professional Evaluation of Students (PTCAPES)
2005-Present Research Advisory Council

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- 2012-Present CORRTNet Advisory Committee
- 2014 Strategic Planning Committee, WUPT
- 2015-Present Faculty Liaison, Department Orthopaedic Surgery Residency, Core Curriculum
- 2015-Present Review Committee, Barnes-Jewish Hospital Foundation/Washington University Institute of Clinical and Translational Sciences Clinical and Translational Research Funding Program
- 2016-Present CORRT Scholar liaison
- 2016-Present Coordinator, WUPT Research Seminar and Webcast
- 2016-Present Distinguished Community Service Award Selection Committee, WUSM
- 2016-Present Faculty Mentoring Program Development, WUPT
- 2017-Present Strategic Planning Committee, WUPT
- 2017-Present Faculty Search Committee – Education Division
- 2017-Present Review Committee, Clinical Research Training Center, KL2 Career Development Awards
- 2017-Present NIH Mock Study Section, Office of Training Grant and Clinical Research Training Center
- 2018-Present Pain Task Force, WUPT

Medical Licensure and Board Certification:

- 1997-Present Missouri Board of Registration for the Healing Arts, Professional Physical Therapist for the State of Missouri
- 2005-2015 Certified Clinical Specialist – Orthopaedic Physical Therapy, American Board of Physical Therapy Specialties

Honors and Awards:

- 2004 Early Career Women’s Faculty Professional Development Seminar Association of American Medical Colleges – selected to attend
- 2010 Enhancing Rehabilitation Research in the South (ERRIS) Grant Writing Workshop – selected to attend
- 2012 Young Investigator – Femoroacetabular Impingement Research Symposium, American Academy of Orthopaedic Surgeons/Orthopaedic Research Society - selected to attend
- 2013 Early Career Reviewer Program, Center for Scientific Review, National Institutes of Health - accepted to participate
- 2013 8th Annual Pain Consortium Symposium on Advances in Pain Research, National Institutes of Health - Selected Finalist for Mitchell Max Award
- 2014 Academic Medical Leadership Program for Physicians and Scientist Washington University School of Medicine - Selected to attend
- 2014 New Investigator Workshop on Advancing Arthritis Research – Center for Enhancing Activity and Participation among person with Arthritis (ENACT) – selected to attend
- 2015 Training in Grantsmanship for Rehabilitation Research (TIGRR) – selected to attend
- 2016 Helen Holzum Whalen Service Award, Eastern District, Missouri Physical Therapy Association
- 2017 Outstanding Service Award, Service to the Profession, Missouri Physical Therapy Association
- 2017 Northwestern University Department of Physical Therapy and Human Movement Sciences Alumni Association’s Research Achievement Award

Editorial Responsibilities:

Editorial Board Member

- 2018-Present Journal of Orthopaedic & Sports Physical Therapy, Associate Editor

Grant reviewer:

- 2017 NIH, NICHD, Function, Integration, and Rehabilitation Sciences Subcommittee Ad Hoc Study Section Member
- 2017 NIH, NICHD, Special Emphasis Panel Ad Hoc Study Section Member
- 2018 NIH, NICHD, Special Emphasis Panel Ad Hoc Study Section Member

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Manuscript reviewer:

2005-Present Physiotherapy Theory and Practice
2009-Present Archives of Physical Medicine and Rehabilitation
2011-Present Journal of Sport Rehabilitation
2012-Present Journal of Orthopaedic & Sports Medicine
2012-Present Physical Medicine and Rehabilitation
2012-Present Journal of Orthopaedic & Sports Physical Therapy
2013-Present Clinical Biomechanics
2013-Present Physical Therapy Journal
2013-Present Clinical Orthopaedics and Related Research

Abstract reviewer:

2009-2013 Section of Research (APTA)
2012-2013 Gait & Clinical Motion Analysis Society Annual Conference
2012-Present Musculoskeletal Research Symposium (WUSM)
2013-Present Orthopaedic Section (APTA)
2017 Orthopaedic Research Society, Midwest Musculoskeletal Workshop

Book reviewer:

2009 American College of Occupational and Environmental Medicine Practice Guidelines for Hip Pain

Professional Societies and Organizations:

University Societies and Organizations:

2004-Present Academic Women's Network
2010-2015 Peer Group Mentoring Program for Women
2010-Present Institute of Clinical and Translational Sciences
2012-Present Musculoskeletal Research Center

National Societies and Organizations:

1996-Present American Physical Therapy Association
2000-Present Orthopaedic Section (APTA)
2006-Present Task Force Clinical Practice Guidelines (Hip)
2007-2009 Finance Committee
2014-2017 Nominating Committee, Imaging Special Interest Group
2017-Present Research Committee
2003-Present Section on Research (APTA)
2013-2017 Awards Committee, Biomechanics Special Interest Group
2017-Present Chair, Biomechanics Special Interest Group
2003-Present Sports Physical Therapy Section (APTA)
2012-Present Hip Special Interest Group
1996-Present Missouri Physical Therapy Association
2004-2007 Treasurer
2007-2008 President-Elect
2008-2011 President
2011-2012 Past President
2011-2013 Finance Committee
Eastern District (MPTA)
2002-2005 Program Chair – Eastern District
2002-2005 Student Liaison – Eastern District
2005-2007 Chair – Eastern District
2005-2007 Chair – Task Force for Consumer Access
2012-2013 Awards Council, Gait and Clinical Movement Analysis Society

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2012-Present International Society of Biomechanics

2014-Present Member, Osteoarthritis Research Society International (OARSI)

2017-Present Awards Committee, Journal of Orthopaedic and Sports Physical Therapy Journal

Major Invited Professorships and Lectureships:

- 2001 “Osteoarthritis: The Spectrum of Care from the Prevention to Rehabilitation”
Arthritis Foundation’s Fall Prevention Forum, St. Louis, MO
- 2005 “Diagnosis and Treatment of Movement System Impairments of the Knee”
Alumni Day - Washington University Program in Physical Therapy, St. Louis, MO
- 2006 “Movement Impairment Syndromes as a Cause of Musculoskeletal Pain”
The Missouri Pain Initiative, Lake of the Ozarks, MO
- 2007 “Anatomy and Orthopaedic Management of the Shoulder and Knee: From the Lab to the Clinic”,
Learn 4 Research 2007 – Student Program, Washington University Program in Physical Therapy,
St. Louis, MO
- 2008 “Diagnosis and Treatment of Movement System Impairment Syndromes: Lower
Quarter Advanced Application”, Arizona Physical Therapy Association’s Professional meeting,
Phoenix, AZ
- 2009 “Intra-articular Hip Disorders: Understanding Structure, Function and Participation”
Northwestern University Physical Therapy and Human Movement Sciences, Chicago, IL
- 2012 “Proposed Risk Factors for Hip Osteoarthritis”, Alumni Day, Washington University Program in
Physical Therapy, St. Louis, MO
- 2013 “Optimizing Post-Operative Rehabilitation and Return to Activity after FAI Procedures”, St. Louis
Hip Skills Course, St. Louis, MO
- 2013 “Factors Influencing Rehabilitation Outcomes in Lower Extremity Conditions
1st Annual Orthopaedic Section Meeting, Orlando, FL
- 2013 “Rehabilitation Factors in Pre-arthritis Hip Disease”, NYPTA Annual Conference, Albany, NY
- 2015 “Rehabilitation of the Hip Preservation Patient”, Innovations in the Treatment of Hip and Knee
Disorders – Department of Orthopaedic Surgery, St. Louis, MO
- 2017 “Clinical Practice Guidelines (CPG) for Physical Rehabilitation and Outcome Measures for
Patients with Hip Fracture Developed as a Collaboration Between the Academy of Geriatric
Physical Therapy, and the Orthopedic Section of the American Physical Therapy Association
(APTA).” Pre-Congress Workshop, Fragility Fracture Network Global Congress, Malmö, Sweden
- 2017 “Recommendations for Physical Rehabilitation and Outcome Measures in Daily Clinical Practice
After Hip Fracture”, 6th Annual Fragility Fracture Network Global Congress, Malmö, Sweden
- 2018 “Rehabilitation Factors in Prearthritic Hip Disorders”, Research Seminar, Northwestern University
Physical Therapy & Human Movement Sciences, Chicago, IL
- 2018 “Hip Instability: What Is It and How Do I Manage It?” APTA Learning Center
- 2018 “Addressing Pain Problems Through the Use of Movement Science, Annual Orthopaedic Section
Meeting, Baltimore, MD

Consulting Relationships and Board Memberships:

- 2002-2006 Northwestern University Physical Therapy Alumni Association Board of Directors
- 2004-2006 Nominating Committee
- 2005-2006 Member at Large
- 2006-2012 Diagnosis Dialog, Defining the “x” in DxPT, Planning Committee
- 2014-2017 National Quality Forum Musculoskeletal Steering Committee
Musculoskeletal Measure Endorsement and Maintenance project
- 2017-Present Voting Panel, Appropriate Use Criteria for *Management of Osteoarthritis of the Hip*.
American Academy of Orthopaedic Surgeons
- 2017-Present Primary Care and Chronic Illness Standing Committee Expert Reviewer, National Quality
Forum
- 2017-Present Major Extremity Trauma Research Consortium (METRC) Consortium Committee
- 2017-Present Major Extremity Trauma Research Consortium (METRC) Science Committee

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2017-Present LRP Ambassador Program, NIH

2018-Present International Hip-related Pain Research Network (IHIPRN)

Research Support:

ORCID Identifier: 0000-0003-4274-1651

- 2006-2008 Source: NIH-NICHD, NCMRR, R01 HD047709-01
Title: "Classification-Directed Treatment of Low Back Pain"
Principal Investigator: Van Dillen, L.R.
Role: Co-Investigator
Amount: \$351,168
- 2006-2010 Source: NIH-NCRR, 1 UL1 RR 024992-01
Title: Washington University Institute of Clinical and Translational Sciences Research Education, Training and Career Development
Principal Investigator: Polonsky, K.S.
Role: Scholar
Amount: \$6,000
- 2007-2008 Source: Mallinckrodt Institute of Radiology
Title: "Ultrasonography of Intra-Articular Disease of the Hip"
Role: Principal Investigator
Amount: \$1,500
- 2008-2010 Source: Program in Physical Therapy
Title: "Ultrasonography of Intra-Articular Disease of the Hip"
Role: Principal Investigator
Amount: \$1,500
- 2008-2010 Source: Mallinckrodt Institute of Radiology
Title: "Investigation of Proposed Risk Factors for Intra-Articular Hip Disorders"
Role: Principal Investigator
Amount: \$13,500
- 2008-2013 Source: NIH-NICHD, NCMRR, NINDS, K12 HD055931
Title: Multicenter Career Development Program for Physical and Occupational Therapists
Principal Investigator: Mueller, M.J.
Role: Scholar
Amount: \$4,626,510/\$95,580
- 2010-2013 Source: ICTS JIT Core Usage Funding
Title: Novel tools for assessing the treatment response to antibiotic therapy in vertebral osteomyelitis: an exploratory study.
Principal Investigator: Marschall J, MD
Role: Co-investigator
- 2011-2015 Source: NIH-NICHD, NCMRR, K23HD067343
Title: Rehabilitation Factors in Pre-Arthritic Hip Disease
Role: Principal Investigator
Amount: \$427,761

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- 2014-2015 Source: Pediatric Orthopaedic Society of North America
Title: Clinical planning grant on motion analysis in femoroacetabular impingement
Principal Investigator: Podeszwa, D, MD
Role: Co-investigator
- 2014-2016 Source: NIH-NIAMS, L30 AR066989
Title: Loan Repayment Program
Role: Principal Investigator
- 2016-2017 Source: NIH-NIAMS, L30 AR066989
Title: Loan Repayment Program Renewal
Role: Principal Investigator
- 2016-2019 Source: Department of Defense
Stinner DJ, MacKenzie EJ; McAndrew-Project PI of Subc from JHU
Title: METRC REPAIR: Rehabilitation Enhanced by Partial Arterial Inflow Restriction
Role: Collaborator
- 2016-2018 Source: NIH-NICHHD, NCMRR, R21HD086644
Title: Movement Pattern Training in People with Intra-articular, Prearthritic Hip Disorders
Role: Co-Principal Investigator
Amount: \$423,377
- 2017-2018 Source: ICTS JIT Core Usage Funding
Title: Mechanisms Underlying Movement Pattern Training in People with Prearthritic Hip Disorders
Role: Principal Investigator
Amount: \$10,000
- 2017-2019 Source: Foundation for Physical Therapy
Title: Movement Pattern Training in People with Intra-articular, Prearthritic Hip Disorders
Role: Principal Investigator
Amount: \$40,000
- 2017-2018 Source: Orthopaedic Research and Education Foundation
Title: Mobile Weight-Support (MWeST): A Prospective, Randomized Controlled Trial for Mobility after Geriatric Lower Extremity Fracture
Principal Investigator: Miller, A, MD
Role: Consultant
- 2017-2018 Source: Ohio Physical Therapy Association
Title: Posture and Movement Training for Persons with Non-Arthritic Hip Disease
Principal Investigator: Lindsey Brown, PT, DPT
Role: Mentor
- 2018-2021 Source: Zimmer
Title: Randomized trial investigating mobile compression device use with and without tourniquet on incidence of DVT following uncemented total knee arthroplasty
Principal Investigator: Robert Barrack, MD
Role: Co-Investigator

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2018-2023 Source: NIAMS, NIH
Title: Muscle Geometry and its Influence on Function in Patients with Development Dysplasia of the Hip
Principal Investigator: Michael Harris, PhD
Role: Collaborator

Pending

2019-2020 Source: NIH
Title: A Comparison of Booster Session Delivery Approaches in Physical Therapy for People with Knee Osteoarthritis (The BOOST-PT study)
Principal Investigator: G. Kelley Fitzgerald, PT, PhD
Role: Co-Investigator

Clinical Title and Responsibilities:

2000-2008 Physical Therapist, Washington University Physical Therapy Clinics, Responsibilities: Perform evaluation and provide treatment for patients with musculoskeletal impairments.
2000-2007 Physical Therapist, Barnes-Jewish Hospital
Responsibilities: Consultation for evaluation and treatment for patients with musculoskeletal impairments.

Teaching Title and Responsibilities:

Current

2004-Present Lab Assistant, Professional Issues and Skill Development IV, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2005-Present Lab Assistant, Kinesiology II, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2009-Present Lecturer and Evaluator – Student projects, Biomechanics, PhD in Movement Science (WUSM)
2010-Present Course Master, Kinesiology I, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2010-Present Advisor, Teaching Practicum in Movement Science, PhD in Movement Science (WUSM)
2013-Present Lecturer, Bioenergetics, PhD in Movement Science (WUSM)
2014-Present Lecturer, Moderators of Health, Wellness & Rehabilitation, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2017-Present Lecturer, Biomechanics Focus study, Case Integration III, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2017-Present Evaluator, Diagnosis & Management of Musculoskeletal Conditions II, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2017-Present Advisor/Evaluator, Diagnosis, Evidence and Analysis III, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2017-Present Advisor/Evaluator, Case Integration III, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2017-Present Advisor, Lab Practicum in Movement Science, PhD in Movement Science (WUSM)
2018-Present Evaluator, Professional Issues and Skill Development III, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2018-Present Lecturer, Movement Science Clinical Fellowship (WUSM)
2018-Present Presenter, Program Seminar, PhD in Movement Science (WUSM)

Recent

2004-2013 Course Assistant, Diagnosis & Management of Musculoskeletal Conditions: Lower Quarter, Post-Professional Clinical Doctorate (PP DPT) Curriculum (WUSM)
2004-2013 Course Assistant, Diagnosis & Management of Musculoskeletal Conditions: Upper Quarter, Post-Professional Clinical Doctorate (PP DPT) Curriculum (WUSM)
2011-2014 Lecturer, Human Anatomy, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
2012-2013 Lecturer, Orthopaedic Medicine, Professional Clinical Doctorate (DPT) Curriculum (WUSM)

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Past participation in professional courses:

Course Coordinator: Orthopaedic Medicine

Course Assistant: Diagnosis & Management of Musculoskeletal Conditions I, Diagnosis & Management of Musculoskeletal Conditions II, Diagnosis & Management of Musculoskeletal Conditions III, Essential Skills II

Lecture/Key Contributor: Human Anatomy, Kinesiology II, Case Integration I, Case Integration II, Professional Issues and Skill Development III, Essential Skills I, Essential Skills III, Diagnosis and Evidence Analysis III, Case Integration III, Ambulatory Care Lecture Series for Residents, Medical and Mental Health Conditions

Past participation in selected courses for post-professional students.

Diagnosis & Management of General Medical Conditions

Trainee Advisement

Graduate Students (PhD and Postdoctoral)

2010-2011 Priscilla Weaver, PT, DPT, Indiana University
Dissertation Committee

2015-Present Myra Meekins, PT, DPT, Rocky Mountain University
PhD Candidate

2016-Present Stefanie Foster, PT, Washington University Movement Science Program
Movement Science PhD student

2017-Present Lindsey Brown, PT, DPT, The Ohio State University
Dissertation Committee

2017-Present Kate Glaws, PT, DPT, SCS, The Ohio State University
Clinical Fellow

2017-Present Ke Song, Washington University Mechanical Engineering & Materials Science
PhD Candidate

Graduate Students (Entry level DPT)

2012-2015 Jackie Hunt, PT, DPT
Research Assistantship
DPT Class of 2015
2014 Poster Presenter at Combined Sections Meeting, APTA
Manuscript published

2013-2014 Davor Vasiljevic, PT, DPT, MSCI
NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
DPT Class of 2015
Master of Science in Clinical Investigation earned in May 2015
2015 Poster Presenter at Combined Sections Meeting, APTA
Manuscript published

2013-2016 Alex Uding, PT, DPT
Research Assistantship
DPT Class of 2016
2015 Platform Presenter at Combined Sections Meeting, APTA
Manuscript in review

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2014-2015 Eric Schmidt, PT, DPT, MSCI
NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
DPT Class of 2016
Master of Science in Clinical Investigation earned in May 2016
Manuscript published

2014-2017 Matt Mastenbrook, PT, DPT
Research Assistantship
DPT Class of 2017
2016 Poster Presenter at Combined Sections Meeting, APTA
Manuscript published

2015-2018 Trent Wiseman, PT, DPT
Research Assistantship
DPT Class of 2018

2017-Present Kristen Koch, SPT
Research Assistantship
DPT Class of 2020

2018-Present Ji Xuanran
Internship, Biostatistics

2018-Present Cassie Davis, BA
Biomedical Innovation Program (BMIP), Biomedical Engineering (WUSTL)

Advisor for Capstone Project (Post-Professional DPT)

2004 Marcy Schulz, PT, "Physical Therapy Management Following Meniscal Debridement"
2007 Gregory Holtzman, PT, "Anterior knee pain secondary to patella alta: a critical review and case study"
2008 Jennifer C. Hoffman, PT, MS, "Taping vs. Bracing for patellar lateral glide – which is more effective?"
2009 Cheryl Smith, PT, "Diagnosis and treatment of two patients with hip pain using the Movement System Impairment Classification System"
2009 Gary Sutton, PT, MPT, "Influence of hip muscle control in decreasing symptoms, improving function in a patient with osteoarthritis of the knee"
2011 Sylvia Czuppon, PT, "Physical and psychological factors associated with return to sport following anterior cruciate ligament (ACL) reconstruction"
2012 Randy Raugh, PT, "The effect of physical stress to hyaline cartilage in the knee and implications for physical therapy"
2013 Steve Olsen, PT, "The Effect of Decrease in BMI on Knee Pain and Function following Aggressive Fitness Programs"
2014 Mike Horan, PT "What are the Effect of General Lower Extremity Strengthening, Quadriceps Strengthening, Hip Strengthening, and Motor Pattern Training on Pain Scores for the Treatment of Individuals with Patellofemoral Pain?: A Literature Review."

Advisor for Independent Study and Independent Readings (Post-Professional DPT)

2003 Melissa Stevens, PT, "Treatment of a Severe Quadriceps Laceration: A Case Study Based on the Muscle Physiology to Regain Strength and Functional Mobility"
2005 Darren Bass, PT, "Comparison of rehab outcomes for postoperative anterior cruciate ligament surgeries via various surgical techniques"
2006 Brigitte Cutler, PT, "Radiological MR imaging studies, low back biomechanics and low back pain"

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2006 Brigitte Cutler, PT, "Spine surgery: The physical therapy perspective"

2006 Karen Krochina, PT, "The effects of knee rotation in the frontal and transverse planes on knee pain and pathology"

Mentor for Clinical Research:

2011-Present Sylvia Czappon, PT, DPT, OCS, Sports-specific injuries

2018-Present Lauren Mills, PT, DPT, SCS, Risk factors for athletic injuries

Advisor for Clinical Fellowship in Diagnosis & Management of Movement Impairment Syndromes, In-Residence and Regional Fellows

2008-2014 Use of imaging in clinical practice

Bibliography:

Peer Reviewed Manuscripts

1. **Harris-Hayes M**, Sahrman SA, Van Dillen LR. Classification, treatment, and outcomes of a patient with lumbar extension syndrome. *Physiotherapy Theory and Practice*. 2004;21(3):181-196. PubMed PMID: 16389699.
2. **Harris-Hayes M**, Wendl P, Sahrman SA, Van Dillen LR. Does tibiofemoral joint movement affect passive hip rotation range of motion? *Physiotherapy Theory and Practice*. 2007;23(6):315-324. PubMed PMID: 18075905.
3. **Harris-Hayes M**, Sahrman SA, Norton BJ, Salsich GB. Diagnosis and management of a patient with knee pain using the movement system impairment classification system. *Journal of Orthopaedic and Sports Physical Therapy*. 2008;38(4):203-213. PubMed PMID: 18434664.
4. Desphande AJ, **Harris-Hayes M**, Schootman M. Epidemiology of diabetes and diabetes-related complications. *Physical Therapy*. 2008;88(11):1254-1264. PMID: PMC3870323.
5. Clohisy JC, Knaus ER, Hunt DM, Pashos GE, **Harris-Hayes M**, Prather H, Leshner J. Clinical presentation of patients with symptomatic anterior hip impingement. *Clinical Orthopaedics & Related Research*. 2009;467:638-644. PMID: PMC2635448.
6. **Harris-Hayes M**, Van Dillen LR. The inter-tester reliability of examiners classifying low back pain problems based on the movement system impairment classification system. *Physical Medicine and Rehabilitation*. 2009;1(2):117-126. PMID: PMC2752279.
7. **Harris-Hayes M**, Van Dillen LR. Relationship between the hip and low back pain in athletes who participate in rotation-related sports. *Journal of Sport Rehabilitation*. 2009;18:60-75. PMID: PMC2699456.
8. Cibulka MT, White DM, Woehrle J, **Harris-Hayes M**, Ensey K, Fagerson TL, Slover J, Godges JJ. Hip pain and mobility deficits – hip osteoarthritis: clinical practice guidelines linked to the International Classification of Functioning, Disability, and Health from the Orthopaedic Section of the American Physical Therapy Association. *Journal of Orthopaedic and Sports Physical Therapy*. 2009;39(4):A1-A25. PMID: [PMC3963282](#).
9. Prather H, Hunt D, Steger-May K, **Harris-Hayes M**, Knaus E, Clohisy J. Inter-rater reliability of three musculoskeletal physical examination techniques used to assess motion in three planes while standing. *Physical Medicine and Rehabilitation*. 2009;1:629-635. PMID: PMC3433850.
10. **Harris-Hayes M**, Holtzman GW, Earley JA, Van Dillen LR. Development and preliminary reliability testing of an assessment of patient independence in performing a treatment Program: Standardized Scenarios. *Journal of Rehabilitation Medicine*. 2010;42:221-227. PMID: PMC3574865.
11. Prather H, **Harris-Hayes M**, Hunt D, Steger-May K, Matthews V, Clohisy JC. Reliability and agreement of hip range of motion and provocative physical examination tests in asymptomatic volunteers. *Physical Medicine and Rehabilitation*. 2010;2(10):888-895. PMID: PMC3438506.
12. Hoffman SL, Johnson MB, Zou D, **Harris-Hayes M**, Van Dillen LR. Effect of classification-specific treatment on lumbopelvic motion during hip rotation in people with low back pain. *Manual Therapy*. 2010;16(4):344-350. PMID: PMC3095730.

13. Hoffman SL, **Harris-Hayes M**, Van Dillen, LR. Differences in activity limitation between two low back pain subgroups based on the movement system impairment model. *Physical Medicine and Rehabilitation*. 2010;2(12):1113-1118. PMID: PMC3628674.
14. Holtzman GW, **Harris-Hayes M**, Hoffman SL, Zou D, Edgeworth RA, Van Dillen LR. Clinical examination procedures for determining the role of axial compression on low back pain symptoms in people with chronic low back pain. *Journal of Orthopaedic and Sports Physical Therapy*. 2011;42(2):105-113. PMID: PMC3628684.
15. Holtzman GW, **Harris-Hayes M**. Treatment of patella alta with taping, exercise, mobilization and functional activity modification: a case report. *Physiotherapy Theory and Practice*. 2011;29(1):71-88. PMID: PMC3628684.
16. **Harris-Hayes M**, Royer NK. Relationship of acetabular dysplasia and femoroacetabular impingement to hip osteoarthritis: a focused review. PM R. 2011 Nov;3(11):1055-1067.e1. PMID: [PMC3427648](#).
17. **Harris-Hayes M**, Steger-May K, Pashos G, Clohisy JC, Prather H. Stride activity level in young and middle-aged adults with hip disorders. *Physiotherapy Theory and Practice*. 2011;5:333-343. PMID: [PMC3586766](#).
18. Hunt D, Prather H, **Harris-Hayes M**, Clohisy JC. Clinical outcomes analysis of conservative and surgical treatment of patients with clinical indications of pre-arthritis, intra-articular hip disorders. *Physical Medicine and Rehabilitation*. 2012;4:479-487. PMID: [PMC3594845](#).
19. Klein SE, Dale AM, **Harris-Hayes M**, Johnson JJ, McCormick JE, Racette BA. Clinical presentation and self-reported patterns of pain and function in patients with plantar heel pain. *Foot & Ankle International*. 2012;33(9):693-698. PMID: PMC4083061.
20. Kuhn M, **Harris-Hayes M**, Steger-May K, Pashos G, Clohisy JC. Total hip arthroplasty in patients 50 years or less: Do we improve activity profiles? *Journal of Arthroplasty*. 2013;28(5):872-876. PMID: [PMC3932739](#).
21. **Harris-Hayes M**, McDonough CM, Leunig M, Lee CB, Callaghan JJ, Roos EM. Clinical outcomes assessment in clinical trials to assess treatment of femoroacetabular impingement: use of patient-reported outcome measures. *Journal of American Academy Orthopaedic Surgeons*. 2013;21(Suppl 1):S39-46. PMID: [PMC3971004](#).
22. Czuppon S, Racette BA, Klein SE, **Harris-Hayes M**. Variables Associated with Return to Sport Following Anterior Cruciate Ligament Reconstruction: A Systematic Review. *British Journal of Sports Medicine*. 2014;48(5):356-64. PMID: [PMC3975129](#).
23. **Harris-Hayes M**, Willis AW, Klein SE, Czuppon SC, Crouner B, Racette BA. Relative Mortality in United States Medicare Beneficiaries with Parkinson Disease and Hip and Pelvic Fractures. *Journal of Bone and Joint Surgery Am*. 2014;96(4):e27. PMID: [PMC3918936](#).
24. **Harris-Hayes M**, Steger-May K, Koh C, Royer NK, Graci V, Salsich GB. Classification of Lower Extremity Movement Patterns Based on Visual Assessments: Reliability and Correlation to Two Dimensional Video Analysis. *Journal of Athletic Training*. 2014;49(3):304-310. PMID: [PMC4080603](#).
25. Enseki K, **Harris-Hayes M**, White DM, Cibulka MT, Woehrle J, Fagerson TL, Clohisy JC. Non-arthritis Hip Joint Pain: Clinical Practice Guidelines Linked to the International Classification of Functioning, Disability, and Health from the Orthopaedic Section of the American Physical Therapy Association. *Journal of Orthopaedic and Sports Physical Therapy*. 2014;44(6):A1-A32. PMID: [PMC4399382](#).
26. **Harris-Hayes M**, Commean PK, Patterson JD, Clohisy JC, Hillen TJ. Bony abnormalities of the hip joint: a new comprehensive, reliable and radiation-free measurement method using magnetic resonance imaging. *Journal of Hip Preservation Surgery*. 2014;1:62-70. PMID: [PMC4280561](#).
27. **Harris-Hayes M**, Mueller MJ, Sahrman Sa, Bloom NJ, Steger-May K, Clohisy JC, Salsich GB. Persons with chronic hip joint pain exhibit reduced hip muscle strength. *Journal of Orthopaedic and Sports Physical Therapy*. 2014;44:890-898. PMID: [PMC4216739](#).
28. Nepple JJ, Thomason KM, An TW, **Harris-Hayes M**, Clohisy JCC. The utility of biomarkers for assessing the pathophysiology of hip osteoarthritis: a systematic review. *Clinical Orthopaedics and Related Research*. 2015;473:1683-1701. PMID: [PMC4385333](#).
29. **Harris-Hayes M**, Czuppon S, Van Dillen LR, Steger-May K, Sahrman SA, Schootman M, Salsich GB, Clohisy JC, Mueller MJ. Movement pattern training to improve function in people with chronic hip

- joint pain: a feasibility randomized clinical trial. *Journal of Orthopaedic and Sports Physical Therapy*. 2016;46:452-461. PMCID: [PMC4889512](#)
30. Van Dillen LR, Norton BJ, Sahrman SA, Evanoff BA, **Harris-Hayes M**, Holtzman GW, Early J, Chou I, Strube MJ. Efficacy of classification-specific treatment and adherence on outcomes in people with chronic low back pain. A one-year follow-up, prospective, randomized, controlled clinical trial. *Manual Therapy*. 2016;24:52-64. PMCID: [PMC4921225](#)
 31. Bove AM, Clohisy J, DeWitt J, Di Stasi S, Enseki K, **Harris-Hayes M**, Lewis CL, Reiman MP, Ryan JM. Cost-effectiveness Analysis of Hip Arthroscopic Surgery and Structured Rehabilitation Alone in Individuals With Hip Labral Tears: Letter to the Editor. 2017;45:NP1-NP2. PMID: 28272934.
 32. Czuppon S, Prather H, Hunt DM, Bloom NJ, Clohisy JC, Larsen R, **Harris-Hayes M**. Gender-dependent differences in hip range of motion and impingement testing in asymptomatic college freshman athletes. *PMR*. 2017; 9(7):660-667. PubMed PMID: 27840297; PubMed Central PMCID: [PMC5425325](#).
 33. Mastenbrook MJ, Commean PK, Hillen TJ, Salsich GB, Meyer GA, Mueller MJ, Clohisy JC, **Harris-Hayes M**. Hip abductor muscle compartment volume and strength differences between women with chronic hip joint pain and asymptomatic controls. *Journal of Orthopaedic and Sports Physical Therapy*. 2017;47:923-930. PMCID: [PMC5991486](#)
 34. Schmidt E, **Harris-Hayes M**, Salsich GB. Dynamic knee valgus kinematics and their relationship to pain in women with patellofemoral pain compared to women with chronic hip joint pain. *Journal of Sport and Health Science*. In press. <https://doi.org/10.1016/j.jshs.2017.08.001>
 35. **Harris-Hayes M**, Salsich GB, Steger-May K, Clohisy JC, Van Dillen LR, Schootman M, Czuppon S, Commean PK, Hillen TJ, Sahrman SA, Mueller, MJ. Reduced hip adduction is associated with improved function after movement pattern training in young people with chronic hip joint pain. *Journal of Orthopaedic and Sports Physical Therapy*. 2018;48:316-324. PMCID: [PMC5993213](#)
 36. Vasiljevic D, Salsich GB, Snozek D, Aubin BG, Foster, SN, Mueller MJ, Clohisy JC, **Harris-Hayes M**. Three dimensional kinematics of visually classified lower extremity movement patterns during a single leg squat among people with chronic hip joint pain. *Physiother Theor Pract*. Epub ahead of print. DOI: [10.1080/09593985.2018.1491081](https://doi.org/10.1080/09593985.2018.1491081).
 37. Uding A, Bloom N, Commean PK, Hillen TJ, Patterson JD, **Harris-Hayes M**. Clinical tests to determine femoral version in people with chronic hip joint pain and asymptomatic controls. *In Review*.
 38. **Harris-Hayes M**, Schootman JC, Hastings MK, Schootman M. The Diabetic Epidemic and Movement System Complications: Implications for Physical Therapists. *In Review*.

Invited Publications:

Book Chapters

1. **Harris-Hayes M**, Cornbleet SL, Holtzman GW. Movement system syndromes of the knee. In: Sahrman, SA. *Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines*. St. Louis, MO: Elsevier; 2011:354-438.
2. Holtzman GW, **Harris-Hayes M**. Staging System for Rehabilitation. In: Sahrman, SA. *Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines*. St. Louis, MO: Elsevier; 2011:35-50.
3. Bloom NJ, Clohisy JC, **Harris-Hayes M**. Post-surgical rehabilitation after femoroacetabular impingement treatment, labral repair and labral debridement. In: Reider B, Davies G, Provencher MT, eds. *Orthopaedic Rehabilitation of the Athlete: Getting Back in the Game*. St. Louis, MO: Elsevier. 2015:868-894.

Clinical Guidelines

1. **Harris-Hayes M**, Enseki D, Bloom N. Femoroacetabular impingement – non-surgical management clinical summary. *PTNow, American Physical Therapy Association*. <http://www.ptnow.org/clinical-summaries-detail/femoroacetabular-impingement-nonsurgical-managemen>
2. American Academy of Orthopaedic Surgeons. Appropriate Use Criteria for the Management of Osteoarthritis of the Hip. www.aaos.org/oahipauc. Published December 8, 2017.

Internal Documents:

1. **Manual of Definitions: Young Adult Hip Group.** Document used internally in Department of Orthopaedic Surgery and Program in Physical Therapy for clinician training. 2010

Abstracts:

1. **Harris MH**, Sahrman SA, Van Dillen LR. Treatment of a Patient with Lumbar Extension Syndrome: A Case Report. *Journal of Orthopaedic and Sports Physical Therapy*. 2001;31(1):A30.
Harris-Hayes M, Norton BJ, Salsich GB, Sahrman SA. Differential diagnosis of a patient with patellofemoral pain using the movement system balance classification system. *Journal of Orthopaedic and Sports Physical Therapy*. 2004;34(1):A31.
2. **Harris-Hayes M**, Wendl P, Sahrman SA, Van Dillen LR. Does Tibiofemoral joint movement affect passive hip rotation range of motion? *Journal of Orthopaedic and Sports Physical Therapy*. 2004;35(1):PO207.
3. **Harris-Hayes M**, Van Dillen LR. The intertester reliability of examiners classifying low back pain problems based on the movement system impairment classification system. *Journal of Manual & Manipulative Therapy*. 2007;15(3):182.
4. Holtzman GW, **Harris-Hayes M**. Conservative treatment of patella alta: a case study. *Journal of Orthopaedic and Sports Physical Therapy*. 2008;38(1):OPO105.
5. **Harris-Hayes M**, Holtzman GW, Earley J, Van Dillen LR. Intra- and inter-rater reliability of physical therapists to assess a patient's independence in performing a treatment program: simulated patient scenarios. *Journal of Orthopaedic and Sports Physical Therapy*. 2008;38(1):OPO170.
6. **Harris-Hayes M**, Van Dillen LR, Strube MJ. A system for measuring patient knowledge and patient performance of a treatment program. *Journal of Orthopaedic and Sports Physical Therapy*. 2008;38(1):OPO173.
7. Holtzman GW, **Harris-Hayes M**, Van Dillen LR. Clinical exam procedures for unloading the lumbar region: effects in people with chronic low back pain. *Journal of Orthopaedic and Sports Physical Therapy*. 2009;39(1):OPL47.
8. **Harris-Hayes M**, Van Dillen LR. Comparison of two subgroups of patients with chronic low back pain classified with the Movement System Impairment Classification System. *Journal of Orthopaedic and Sports Physical Therapy*. 2009;39(1):OPL21.
9. Hoffman SL, **Harris-Hayes M**, Zou D, Baxter KR, Tateuchi H, Van Dillen LR. Spinal and hip flexion end-range of motion with forward bending in two low back pain subgroups based on the Movement System Impairment model. *Journal of Orthopaedic and Sports Physical Therapy*. 2010;40(1):A76.
10. Hoffman SL, **Harris-Hayes M**, Zou D, Baxter KR, Tateuchi H, Van Dillen LR. Pattern of movement during return from forward bending in two low back pain subgroups based on the Movement System Impairment model. *Journal of Orthopaedic and Sports Physical Therapy*. 2010;40(1):A77.
11. Smith C, Bloom N, Sahrman SA, **Harris-Hayes M**. Diagnosis and treatment of two patients with hip pain using the Movement System Impairment classification system. *Journal of Orthopaedic and Sports Physical Therapy*. 2010;40(1):A64.
12. Prather H, Clohisy JC, **Harris-Hayes M**, Hunt D, Sheng A, Van Dillen LR. Hip range of motion for specific hip disorders: an important parameter to assess in patients with low back pain. *Physical Medicine and Rehabilitation*. 2011;3:S248.
13. Czuppon S, **Harris-Hayes M**. Physical and Psychological Outcomes Following Anterior Cruciate Ligament Reconstruction: A Case Report Comparison. *Journal of Orthopaedic and Sports Physical Therapy*. 2012;42(1):OPL48.
14. **Harris-Hayes M**, Commean PK, Wessell DE, Hillen TJ, Hunt JD, Clohisy JC. The association of femoral retroversion and intra-articular hip disorders: a matched study. *Journal of Orthopaedic and Sports Physical Therapy*. 2012;42(1):OPL10.
15. Czuppon S, Racette BA, Klein SE, **Harris-Hayes M**. Physical and Psychological Variables Associated With Return to Sport Following Anterior Cruciate Ligament Reconstruction: A Systematic Review. *Journal of Orthopaedic and Sports Physical Therapy*. 2013;43(1):SPO1163.
16. **Harris-Hayes M**, Mueller MJ, Steger-May K, Sahrman SA, Salsich GB. Reduced hip muscle strength in patients with pre-arthritis hip disease. *Journal of Orthopaedic and Sports Physical Therapy*. 2013;43(1):OPL58.

17. **Harris-Hayes M**, Commean PK, Hunt JD, Clohisy JC, Hillen TJ. Bony abnormalities of the hip joint: measurement reliability using magnetic resonance imaging. *Journal of Orthopaedic and Sports Physical Therapy*. 2013;43(1):OPO3196.
Also presented at WUSM Musculoskeletal Research Symposium and MPTA Spring meeting.
18. **Harris-Hayes M**, Vasiljevic D, Mueller MJ, Clohisy JC, Salsich GB. Hip and pelvis kinematics during a single leg squat in people with and without pre-arthritis hip disease: preliminary data. Conference Proceedings, Gait and Clinical Motion Analysis Society Annual Conference. May 2013, pp 331-332.
19. **Harris-Hayes M**, Czuppon S, Van Dillen LR, Sahrman SA, Schootman M, Salsich GB, Clohisy JC, Mueller, MJ. Movement pattern training for pre-arthritis hip disease. Conference Proceedings, 8th Annual NIH Pain Consortium Symposium on Advances in Pain Research. May 2013.
20. **Harris-Hayes M**, Czuppon S, Van Dillen LR, Sahrman SA, Schootman M, Salsich GB, Clohisy JC, Mueller, MJ. Movement pattern training improves function in people with pre-arthritis hip disease: preliminary data. *Journal of Orthopaedic and Sports Physical Therapy*. 2014;44(1):OPO3159.
21. **Harris-Hayes M**, Czuppon S, Van Dillen LR, Steger-May K, Sahrman SA, Schootman M, Salsich GB, Clohisy JC, Mueller MJ. Movement pattern training improves function in people with intra-articular hip disorders: a preliminary study. *presented American Association of Hip and Knee Surgeons*. November 2014.
Also presented at
8th Annual Multidisciplinary Research Conference, Barnes-Jewish Hospital. September 2014
Osteoarthritis Research Society International meeting. April 2015.
22. Vasiljevic D, Salsich GB, Aubin BG, Mueller MJ, Clohisy JC, **Harris-Hayes M**. Three-dimensional movement pattern characteristics in people with pre-arthritis hip disease. *Journal of Orthopaedic and Sports Physical Therapy*. 2015;45(1):A132.
Also presented TL1 Annual Conference.
23. Czuppon S, Prather H, Hunt DM, Bloom NJ, Clohisy JC, **Harris-Hayes M**. Are there sex-dependent differences in hip range of motion and impingement testing in asymptomatic college freshman athletes? *Journal of Orthopaedic and Sports Physical Therapy*. 2015;45(1):A157.
24. Uding AR, Bloom NJ, Commean PK, Hillen TJ, Patterson JD, **Harris-Hayes M**. Clinical tests to determine femoral version category in people with chronic hip joint pain and asymptomatic controls. *Journal of Orthopaedic and Sports Physical Therapy*. 2015;45(1):A27.
25. **Harris-Hayes M**, Czuppon S, Van Dillen LR, Steger-May K, Sahrman SA, et al. Movement pattern training improves function in people with intra-articular, prearthritic hip disease: preliminary data. World Congress on Osteoarthritis (OARSI), Seattle, WA. *Osteo Cart*. 2015;23(Suppl 2):A369.
26. Schmidt E, Harris-Hayes M, Salsich GB. Dynamic Knee Valgus Kinematics: Patellofemoral Pain and Prearthritic Hip Disease. *Presented TL1 Annual Conference*. April 2015
27. An TW, Sadhu A, Pashos G, **Harris-Hayes M**, Clohisy JC. Symptomatic Acetabular Dysplasia in the Skeletally Mature Patient: Is the Contralateral Hip at Risk? *American Association of Hip and Knee Surgeons*. November 2015.
28. Mastenbrook MJ, Commean PK, Hillen TJ, Salsich GB, Mueller MJ, Clohisy JC, **Harris-Hayes M**. Hip abductor volume and strength differences between women with prearthritic hip disorders and asymptomatic controls. *Journal of Orthopaedic and Sports Physical Therapy*. 2016;46(1):A113-114.
Also presented at
Musculoskeletal Winter Symposium, Musculoskeletal Research Center at Washington University School of Medicine. February 2016.
29. **Harris-Hayes M**, Salsich GB, Steger-May K, Clohisy JC, Van Dillen LR, Schootman M, Czuppon S, Commean PK, Hillen TJ, Sahrman SA, Mueller, MJ. Reduced hip adduction is associated with improved function after movement pattern training in people with prearthritic hip disease. World Congress on Osteoarthritis (OARSI), Amsterdam, Netherlands. *Osteo Cart*. 2016;24:S468-469.
30. Foster SN, Harris MD, Hastings MK, Mueller MJ, Wiseman T, Huber N, **Harris-Hayes M**. Ankle Dorsiflexion and 2D hip, pelvic, and trunk kinematics in patients with chronic hip joint pain during forward step-down. *Journal of Orthopaedic and Sports Physical Therapy*. 2018;48(1):A111.
31. **Harris-Hayes M**, Bove A, Brown K, Burgess M, King V, Mancino J, Wortman D, Fitzgerald GK. Treatment fidelity among treatment providers in a multicenter, randomized clinical trial comparing two

rehabilitation strategies for people with prearthritic hip disease. *Journal of Orthopaedic and Sports Physical Therapy*. 2018;48(1):A121-122.

32. Brown L, Glaws K, Harris-Hayes M, Vasileff WK, Di Stasi S. Feasibility of an Interdisciplinary Clinic for Patients with Non-arthritic Hip Disease. *Accepted for presentation CSM 2019*.

Professional Presentations

Lecture and Demonstration presentations

“Diagnosis and Treatment of Movement System Impairment Syndromes

Lower Quarter Advanced Application” (Adjunct Faculty)

2003-2013 Kaiser Permanente Los Angeles Orthopaedic Manual Therapy Fellowship and Kaiser Permanente Los Angeles Movement Science Fellowship (Lecture/Demonstration format: 25 hours)

Lower Quarter Advanced Application” (Lecture and Skill instruction)

International

2002 Montreal, Quebec (16 hours)

2002 Toronto, Ontario (32 hours)

2007 Oxford, England (16 hours)

2007 Frome, England (16 hours)

2007 Edmonton, Alberta (8 hours)

2016 Honolulu, HI, Japanese attendees (16 hours)

2018 Cabo San Lucas, Mexico (6 hours)

National

2004 Ames, IA (16 hours)

2004 San Francisco, CA (16 hours)

2011 San Diego, CA (16 hours)

2012 Visalia, CA (16 hours)

2016 Honolulu, HI, (16 hours)

Introduction to Concepts and Application” (Lecture/Demonstration format)

International

2004 London, Ontario (16 hours)

National

2003 Urbana, IL (16 hours)

2004 Portland, OR (16 hours)

2007 Lake of the Ozarks, MO (16 hours)

2010 Brighton, MI (16 hours)

Upper Quarter Advanced Application” (Lecture and Skill instruction)

International

2002 Montreal, Quebec (16 hours)

2006 Ottawa, Ontario (16 hours)

2007 Frome, England (16 hours)

2007 Oxford, England (16 hours)

2003 “Tibiofemoral Rotation: A Case Report”, Department of Physical Therapy Research Seminar, St. Louis University

2005 “Diagnosis and Treatment of Movement System Impairments of the Knee”, APTA National Conference, Boston, MA

2005 “Movement Impairment System: Case Studies”, APTA National Conference, Boston, MA

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- 2006 "Foot, Ankle and Knee: Special Focus on Diagnosis and Treatment", SSM Rehab, St. Louis, MO
- 2006 "Introduction to Tissue Impairment Diagnosis", APTA National Conference, Orlando, FL
- 2012 "Don't Forget to be Hip: Looking at the Role of the Hip in Lumbar Spine Disorders", APTA Combined Sections Meeting
- 2013 "Structural and Functional Considerations in the Rehabilitation of Young Active Adults with Intra-articular Hip Disorders.", APTA Combined Sections Meeting, San Diego, CA
- 2014 "Adherence: An Important but Often Forgotten Determinant of Treatment Effectiveness", APTA Combined Sections Meeting, Las Vegas, NV
- 2015 "Intra-articular, prearthritic hip disease: effectiveness of movement pattern training", APTA Combined Sections Meeting, Indianapolis, IN
- 2015 "Intra-articular, prearthritic hip disease: effectiveness of movement pattern training", MPTA Spring Meeting, St. Louis, MO
- 2015 "You Make the Call: FAI (Femoroacetabular Impingement) or Not?", Lab Assistant 3rd Annual Orthopaedic Section Meeting, Orlando, FL
- 2015 "Rehabilitation Management of Common Chronic Diseases", Barnes-Jewish Hospital, St. Louis, MO
- 2016 "Imaging and Physical Therapist Professional Education and Clinical Practice", APTA Combined Sections Meeting, Anaheim, CA
- 2018 "Movement Pattern Training Improves Function in People with Prearthritic Hip Disorders", Missouri Physical Therapy Association, Eastern District, St. Louis, MO
- 2018 "Rehabilitation for Femoroacetabular Impingement and Other Prearthritic Hip Disorders", Northwestern University Physical Therapy & Human Movement Sciences Alumni Association, Chicago, IL
- 2018 "Task-Specific Movement Training: A Novel Treatment Approach for Chronic Lower Extremity Pain", APTA Combined Sections Meeting, New Orleans, LA
- 2018 "Reinterpreting the Role of Strength in Movement in Individuals with Hip Pain", APTA Combined Sections Meeting, New Orleans, LA
- 2018 "Evidence-based Analysis of Movement of the Hip" WUPT Clinical Instructors Meeting, St. Louis, MO
- 2019 "Physical Therapy Management for Older Adults with Hip Fracture, APTA Combined Sections Meeting, Washington, D.C *Accepted.*

Community Activities:

- 1993-1994 Boys and Girls Club of Springfield, MO – Program Director
- 2000 "Exercises and Ergonomics for Work" Health and Wellness Day – Student Support Services, WUSM
- 2001-2002 Washington University Hilltop Campus Health Awareness Day
- 2002-2011 Physical Therapy Month, Program in Physical Therapy, WUSM
- 2003-2009 Mini-Medical School, WUSM
- 2003 Relay for Life Faculty Representative, Program in Physical Therapy, WUSM
- 2003 Safe Running Strategies, Health and Fitness, St. Louis Post Dispatch
- 2003-2011 Legislative Fitness Clinic – State Capital, Missouri Physical Therapy Association, Provided postural recommendations to members of Congress and their staff
- 2003-2010 The Academy of Science of St. Louis, Volunteer – Speakers for Science Program
- 2004-2007 Mentor, Alumni Dedicated to Assisting Physical Therapy Students (ADAPTS), Northwestern University Physical Therapy
- 2006 US Figure Skating Championships, Volunteer Physical Therapist
- 2006-2008 Lunch and Learn Series, Saint Louis Science Center, Coordinator and Presenter of on-going lectures on fitness-related topics
- 2007 Bike-Fit, EDMPTA
- 2007-2008 Garden Villas, Exercise for Seniors"

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2012-present "Physical Therapist: Movement System Experts", Pre-Medical Institute
Washington University School of Medicine

2013-present Pedal the Cause, Participated in fundraising for cancer research performed in St. Louis

2015-present Bridge Coach, Two Degrees Program, Youth Learning Center

2015-present Annual Volunteer Day - Washington University Physical Therapy - Faculty Liaison