

Marcie Harris-Hayes, PT, DPT, MSCI

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Contact Information

Office:

Washington University School of Medicine
Program in Physical Therapy
Campus Box 8502
4444 Forest Park Boulevard
Saint Louis, MO 63108
Phone Number: 314-286-1435
FAX: 314-286-1410
Email: harrisma@wustl.edu

Present Position

2018-Present Professor, Physical Therapy and Orthopaedic Surgery
Director, Rehabilitation Research for Orthopaedic Conditions (RROC) Laboratory

Education

Undergraduate

1994 Bachelor of Science, Biology
Missouri State University, Springfield, MO

Graduate

1996 Master of Physical Therapy, Physical Therapy
Northwestern University, Chicago, IL
2003 Doctor of Physical Therapy, Physical Therapy
Washington University, St. Louis, MO

Post-graduate training

2010 Master of Science, Postdoctoral Training with emphasis in Clinical Investigation
Washington University, St. Louis, MO

Academic and Promotion History:

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	Professor, Washington University School of Medicine, Physical Therapy and Orthopaedic Surgery, St. Louis, MO

Employment History:

1997-2000	Physical Therapist, Barnes-Jewish Hospital, St. Louis, MO
2000-2008	Physical Therapist, Washington University Physical Therapy Clinics, Responsibilities: Perform evaluation and provide treatment for patients with musculoskeletal impairments.

Professional Licensures and Certifications

License

1997-Present Missouri Board of Registration for the Healing Arts, Active: #111958
Professional Physical Therapist for the State of Missouri

Certification

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) Grant Writing Workshop
– 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

2022 William H. Harris, MD Award for manuscript of scientific merit, *J Orthop Res* (Co-author)

2026 Lucy Blair Service Award, American Physical Therapy Association

Editorial and Review Responsibilities

Editorial Positions Board Member

2018-2021 Editorial Board Member, Movement Science Media/Journal of Orthopaedic &
Sports Physical Therapy, Associate Editor

Ad Hoc Manuscript reviewer

- *Manuscript reviewer for over 15 peer-reviewed journals in rehabilitation and orthopaedics*

2009-Present Archives of 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

2015-Present Journal of Athletic Training

2021-Present British Journal of Sports Medicine

2021-Present Musculoskeletal Science and Practice

2022-Present Journal of Orthopaedic Research

Extramural Grant reviewer

2017-2020	NIH, NICHD, Function, Integration, and Rehabilitation Sciences Subcommittee Ad Hoc Study Section Member
2017-2019	NIH, NICHD, Special Emphasis Panel, NCMRR Early Career Research Award Ad Hoc Study Section Member
2018	NIH, NIBIB, Study Section for review Biomedical Technology Resource Center (BTRC)
2020-2025	NIH, NICHD, Function, Integration, and Rehabilitation Sciences Subcommittee, Initial Review Group Member
2023-2025	NIH, NICHD, Function, Integration, and Rehabilitation Sciences Subcommittee, Chair

Abstract reviewer for National and International Meetings

2009-2013	Academy of Physical Therapy Research (APTA)
2012-2013	Gait & Clinical Motion Analysis Society Annual Conference
2012-2020	Musculoskeletal Research Symposium (WUSM)
2013-Present	Orthopedics Academy (APTA)
2017	Orthopaedic Research Society, Midwest Musculoskeletal Workshop

Book reviewer

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

Washington University in St Louis School of Medicine Committee and Administrative Service:

2000-2021	Member, Committee on Academic Professional Evaluation of Students (PTCAPES), Program in Physical Therapy, WUSM
2002-2005	Faculty Advisor, Sports Special Interest Group - Program in Physical Therapy, WUSM
2002-2009	Member, Admissions Committee, Program in Physical Therapy, WUSM
2003-2004	Member, Clinical Advisory Committee, Program in Physical Therapy, WUSM
2003-2004	Member, Physical Therapy Council, Program in Physical Therapy, WUSM
2004-Present	Member, Academic Women's Network, WUSM
2005-Present	Member, Research Advisory Council, Program in Physical Therapy, WUSM
2006-2007	Member, Program Innovation Council, Program in Physical Therapy, WUSM
2007-2008	Member, Executive Committee K12/K30, WUSM
2010-2015	Member, Peer Group Mentoring Program for Women, WUSM
2010-Present	Member, Institute of Clinical and Translational Sciences, WUSM
2012-2014	Member, Center for Clinical Excellence, Hip/Knee Replacement Patient Centered Outcomes Pilot Committee, WUSM
2012-Present	Member, Musculoskeletal Research Center, WUSM
2012-2023	Member, CORRTNet Advisory Committee, Program in Physical Therapy, WUSM
2014	Member, Strategic Planning Committee, Program in Physical Therapy, WUSM
2015	Member, Faculty Search Committee – Education Division, Program in Physical Therapy, WUSM
2015-2019	Faculty Liaison, Department Orthopaedic Surgery Residency, Core Curriculum, Program in Physical Therapy, WUSM
2015-Present	Faculty Advisor, Physical Therapy Day of Service, Program in Physical Therapy, WUSM

2015-2017	Member, Review Committee, Barnes-Jewish Hospital Foundation/Washington University Institute of Clinical and Translational Sciences Clinical and Translational Research Funding Program, WUSM
2016-2021	CORRT Scholar liaison, Program in Physical Therapy, WUSM
2016-Present	Coordinator, WUPT Research Seminar and Webcast, Program in Physical Therapy, WUSM
2016-2018	Member, Distinguished Community Service Award Selection Committee, WUSM
2016-Present	Coordinator, Faculty Mentoring Program Development, Program in Physical Therapy, WUSM
2017-2018	Member, Strategic Planning Committee, Program in Physical Therapy, WUSM
2017-2018	Member, Faculty Search Committee – Education Division, Program in Physical Therapy, WUSM
2017-2019	Member, Review Committee, Clinical Research Training Center, KL2 Career Development Awards, WUSM
2017-2019	Member, NIH Mock Study Section, Office of Training Grant and Clinical Research Training Center, WUSM
2018-2019	Member, Pain Task Force, Program in Physical Therapy, WUSM
2018-2020	Faculty discussant, Clinical Research Training Center, Annual Research Training Symposium and Poster Session, WUSM
2019-2020	Member, Faculty Search Committee – Clinical and Education Division, Program in Physical Therapy, WUSM
2019-2021	Architecture Team Leader, Program in Physical Therapy, WUSM
2019-2022	Member, Curriculum Design Committee, Program in Physical Therapy WUSM
2019-Present	Member, Research Assistantship Committee, Program in Physical Therapy WUSM
2020-2020	Ad Hoc Committee Member, Faculty Appointments and Promotions, Department of Medicine, WUSM
2021-Present	Faculty Advisor, BIPOC Student Alumni Mentoring Program, Program in Physical Therapy, WUSM
2021-Present	Member, Physical Therapy Competency Attainment Committee (PT-CAC), Program in Physical Therapy, WUSM
2022-Present	Member, Steven J. Rose Diversity Development Scholarship Review Committee, WUSM
2023-Present	Member, AI for Health Institute (AIM), WUSM
2024-Present	Member, Student Affairs and Community Engagement Committee, Program in Physical Therapy, WUSM
2024-Present	Outreach presenter, WUSTL MARC U-STAR: Maximizing Access to Research Careers Undergraduate Student Training in Academic Research
2024	Occupational Therapy Appointments and Promotions Ad Hoc Committee, Program in Occupational Therapy, WUSM
2004-2007	Mentor, Alumni Dedicated to Assisting Physical Therapy Students (ADAPTS), Northwestern University Physical Therapy
2016-present	Help Our Student Travel (Host) Program, Northwestern University Feinberg School of Medicine – St. Louis Host.

Community Outreach & Volunteer Service:

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	Safe Running Strategies, Health and Fitness, St. Louis Post Dispatch
2003-2009	Mini-Medical School, WUSM
2003	Relay for Life Faculty Representative, Program in Physical Therapy, WUSM
2003-2011	Legislative Fitness Clinic – State Capital, Missouri Physical Therapy Association, Provided postural recommendations to legislators and their staff
2003-2010	The Academy of Science of St. Louis, Volunteer – Speakers for Science Program
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”
2012-2018	“Physical Therapist: Movement System Experts”, Pre-Medical Institute WUSM
2013-present	Pedal the Cause, Participated in fundraising for cancer research performed in St. Louis, raised close to \$35,000 to date
2015-2018	Bridge Coach, Two Degrees Program, Youth Learning Center
2018	Injuries and Pain, Can We Do Better? Unleashing the Power of Movement, Venture Café
2018-2024	Honorary Chair, Sustainable Therapy Haiti
2020-2021	Advisor, AP Capstone: Research at Nixa High School (Kelly Matney, Teacher), Student: Edward Eiche
2020-2021	Food delivery to local senior centers, Food Search (United Way)
2021	Podcast episode: Exploring the MSCI for Clinical Experts Interested In Independent Research. <i>Clinical Appraisal</i>
2021-present	Mentor, Missouri Early Professional Special Interest Group, APTA, MO chapter
2021-present	Volunteer, Institute for Conservation Medicine, St. Louis Zoo
2021-present	Volunteer (2-3 annually), Health Fairs hosted by various organizations
2021	Podcast episode: Treating Hip-Related Groin Pain—Which Method Is Best? <i>Journal of Orthopaedic and Sports Physical Therapy Insights</i>
2024	Volunteer, STL Go Marathon, Washington University
2024	Lunch and Learn Series: Physical Activity and Arthritis, YMCA St. Louis

Membership in Professional Societies:

1996-Present Member, American Physical Therapy Association (APTA)
 1996-Present Member, APTA Missouri 2000-Present APTA Orthopedics
 2003-Present Member, APTA Academy of Physical Therapy Research
 2003-Present Member, APTA American Academy of Sports Physical Therapy
 2014-Present Member, Osteoarthritis Research Society International (OARSI)

National Panels, Committees, Boards:

2002-2005	Program Chair, APTA Missouri Eastern District
2004-2007	Treasurer, APTA Missouri
2005-2007	Student Liaison, APTA Missouri Eastern District
2005-2007	Chair, APTA Missouri Eastern District
2005-2007	Chair – Task Force for Consumer Access, APTA Missouri Eastern District
2006-2012	Member, Diagnosis Dialog, Defining the “x” in DxPT, Planning Committee
2006-Present	Member, Task Force Clinical Practice Guidelines (Hip), Academy of Orthopaedic Physical Therapy
2007-2008	President-Elect, APTA Missouri

2007-2009	Finance Committee, APTA Orthopedics
2008-2011	President, APTA Missouri
2011-2012	Past President, APTA Missouri
2011-2013	Finance Committee, APTA Missouri
2012-Present	Hip Special Interest Group, American Academy of Sports Physical Therapy
2013-2017	Awards Committee, Biomechanics Special Interest Group, Academy of Physical Therapy Research
2014-2017	Nominating Committee, Imaging Special Interest Group, APTA Orthopedics
2014-2017	Member, National Quality Forum Musculoskeletal Steering Committee, Musculoskeletal Measure Endorsement and Maintenance Project
2017-2019	Chair, Biomechanics Special Interest Group, Academy of Physical Therapy Research
2017-2021	Research Committee, APTA Orthopedics
2017-2018	Voting Panel, Appropriate Use Criteria for <i>Management of Osteoarthritis of the Hip</i> . American Academy of Orthopaedic Surgeons
2017-2022	Member, Awards Committee, Journal of Orthopaedic and Sports Physical Therapy
2017-2020	Expert Reviewer, Primary Care and Chronic Illness Standing Committee, National Quality Forum
2017-Present	Member, LRP Ambassador Program, NIH
2018-Present	Member, International Hip-related Pain Research Network (IHIPRN)

Consulting Relationships and Board Memberships

2002-2006	Member, Northwestern University Physical Therapy Alumni Association Board of Directors
2004-2006	Nominating Committee, Northwestern University Physical Therapy Alumni Association Board of Directors
2005-2006	Member at Large, Northwestern University Physical Therapy Alumni Association Board of Directors
2017-Present	Member, Major Extremity Trauma Research Consortium (METRC) Consortium Committee
2017-Present	Member, Major Extremity Trauma Research Consortium (METRC) Science Committee
2021-2023	Consultant – Hip arthroscopy clinical practice guidelines, The Ohio State University Wexner Medical Center Sports Medicine
2020-2022	Advisory Board Member, Journal of Orthopaedic and Sports Physical Therapy/Movement Science Media Board of Directors
2022-2024	Member at Large, Journal of Orthopaedic and Sports Physical Therapy/Movement Science Media Board of Directors
2022-2023	Chair, Search Committee for President of Journal of Orthopaedic and Sports Physical Therapy/Movement Science Media Board of Directors
2024-Present	Vice President, Journal of Orthopaedic and Sports Physical Therapy/Movement Science Media Board of Directors

Teaching

Major External Invited Professorships, including Professorship and Lectures

2001	“Osteoarthritis: The Spectrum of Care from the Prevention to Rehabilitation” Arthritis Foundation’s Fall Prevention Forum, St. Louis, MO
2006	“Movement Impairment Syndromes as a Cause of Musculoskeletal Pain” The Missouri Pain Initiative, Lake of the Ozarks, 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
- 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
- 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, Malmo, Sweden
- 2017 "Recommendations for Physical Rehabilitation and Outcome Measures in Daily Clinical Practice After Hip Fracture", 6th Annual Fragility Fracture Network Global Congress, Malmo, 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
- 2018 "Rehabilitation for Hip Related Groin Pain", Ohio State Sports Medicine Hip Symposium, Columbus OH
- 2019 "Rehabilitation for Prearthritic Hip Disorders", Midwest Orthopaedics at Rush, Chicago, IL
- 2019 "Physical Therapy Management of Older Adults with Hip Fracture: Clinical Practice Guidelines", BJH Department of Rehabilitation, St. Louis, MO
- 2020 "Research Funding Symposium Part 2: Perspectives from Funded Junior Physical Therapy Researchers", Combined Sections Meeting (CSM), Denver, CO
- 2021 "Spotlight on Research: Hip Studies and Clinical Implications, Combined Sections Meeting (CSM), Orlando, FL
- 2021 "Hip-Related Groin Pain: Can Movement Advance Our Knowledge Beyond the Consensus?", Combined Sections Meeting (CSM), Orlando, FL
- 2022 "Nonarthritic Hip Disorders, Round table", The Ohio State University Hip Outcomes Team, Columbus, OH
- 2023 "Hip Dysplasia: It's Not Just a Shallow Socket", Combined Sections Meeting (CSM), San Diego, CA
- 2024 "A Diversity, Equity, Inclusion, and Belonging Blueprint Spanning Education, Practice, and Scholarship in a PT Program. APTA Combined Sections Meeting, Boston, MA.
- 2024 "Optimizing Recovery: A Comprehensive Guide to Hip-Related Groin Pain Surgery and Rehabilitation", UnityPoint Health, Des Moines, IA, Zoom presentation.
- 2025 "Turning Care for Hip-Related Pain on Its Head: A Comprehensive, Psychologically Informed Patient-Centered Approach", Combined Sections Meeting (CSM), Houston, TX
- 2025 "The Role of the Movement System in Understanding Young Adult Hip Pain", APTA MO Spring Conference, St. Louis, MO
- 2025 "The Unstable Joint: Multidisciplinary Approaches to Treatment", The Ohio State University Symposium, Columbus, OH

Washington University Presentations & Lectures

- 2005 "Diagnosis and Treatment of Movement System Impairments of the Knee"
Alumni Day - Washington University Program in Physical Therapy, St. Louis, 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
- 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
- 2015 "Rehabilitation of the Hip Preservation Patient", Innovations in the Treatment of Hip and Knee Disorders – Department of Orthopaedic Surgery, St. Louis, MO
- 2019 "Advances in Physical Therapist-led Intervention for Hip Joint Pain in the Young to Middle Aged Adult", Innovations in the Treatment of Hip & Knee Disorders, St. Louis, MO
- 2020 "Movement System Factors in Pre-arthritic Hip Disorders", Movement System Clinical Fellowship Symposium, St. Louis, MO

Other 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
- 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.
- 2019 "Rehabilitation for Pre-arthritis Hip Disorders" St. Louis Hip and Knee Innovations Course, Washington University School of Medicine, St. Louis, MO
- 2020 "Lessons Learned: How to Design a Multi-Center Motion Analysis Study" *Conference Proceedings, Gait and Clinical Motion Analysis Society Annual Conference.*

- 2021 "Update Hip Research" Washington University Program in Physical Alumni Event, St. Louis, MO
- 2021 "The Way You Move" Co-sponsored by Sustainable Therapy and the Eastern District, APTA Missouri. Fundraiser for Sustainable Therapy
- 2021 "Clinical Practice Guidelines for Hip Fracture, Fragility Fracture Network Webinar
- 2022 "OSU Hip Outcome Team Q3 Meeting/Panel Discussion. The Ohio State University, Columbus, OH
- 2022 "Hip-Related Groin Pain: Can Movement Advance Our Knowledge Beyond the Consensus. NexusMotion, Virtual.
- 2024 "Optimizing Recovery: A Comprehensive Guide to Hip-Related Groin Pain Surgery and Rehabilitation", UnityPoint Health, Des Moines, IA, Zoom presentation.
- 2025 "Hip-Related Pain Journal Club, Japan. Nexus Motion. Zoom presentation
- 2025 Physical Therapist-Led Intervention for Hip-Related Pain. US, Nexus Motion. Zoom presentation

Courses

Movement Science Program (PhD) – Program in Physical Therapy

- 2010-Present Advisor, Teaching Practicum in Movement Science, PhD in Movement Science (WUSM)
Enrollment: 1 student
- 2013-Present Lecturer, Bioenergetics, PhD in Movement Science (WUSM)
Enrollment: 5 students
- 2018-Present Presenter, Program Seminar, PhD in Movement Science (WUSM)
Enrollment: 5 students

DPT – Program in Physical Therapy

- 2021-Present Content Expert/Lecturer/Lab assistant, Modules 1-5 Kinesiology, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Lecturer, Module 6 Exercise Adherence (Moderators), Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Discussant, Module 4B, Evidence, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Coach, Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 5-11 students
- 2021-Present Evaluator, Module 8, Patient client care examinations, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Discussant, Module 7/8, Journal club, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Lab Assistant, Module 7/8, Government Affairs, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students
- 2021-Present Lab Assistant, Module 8, CSE, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2021-Present Advisor, Module 8, CSE projects, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 2-3 students

WUSM

2021-Present Discussant, Module 6 Clinical Epidemiology and Evidence Based Medicine (WUSM)
Enrollment: 40 students

Recent (Prior to Curriculum initiated in 2021)

2004-2023 Lab Assistant, Professional Issues and Skill Development IV, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2004-2013 Course Assistant, Diagnosis & Management of Musculoskeletal Conditions:
Lower Quarter, Post-Professional Clinical Doctorate (PP DPT) Curriculum (WUSM)
Enrollment: 10-20 students

2004-2013 Course Assistant, Diagnosis & Management of Musculoskeletal Conditions:
Upper Quarter, Post-Professional Clinical Doctorate (PP DPT) Curriculum (WUSM)
Enrollment: 10-20 students

2005-2021 Lab Assistant, Kinesiology II, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2009-2020 Lecturer and Evaluator – Student projects, Biomechanics, PhD in Movement Science (WUSM)
Enrollment: 5 students

2010-2021 Course Master, Kinesiology I, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2011-2014 Lecturer, Human Anatomy, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2012-2013 Lecturer, Orthopaedic Medicine, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2014-2023 Lecturer, Moderators of Health, Wellness & Rehabilitation, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2017-2019 Evaluator, Diagnosis & Management of Musculoskeletal Conditions II, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students

2017-2020 Advisor, Lab Practicum in Movement Science, PhD in Movement Science (WUSM)
Enrollment: 1 student

2017-2023 Lecturer, Biomechanics Focus study, Case Integration III, Professional Clinical Doctorate (DPT) Curriculum (WUSM)
Enrollment: 85-90 students/Small group: 15 students

2017-2023	Advisor/Evaluator/Presenter Diagnosis, Evidence and Analysis III, Professional Clinical Doctorate (DPT) Curriculum (WUSM) Enrollment: 85-90 students
2017-2023	Advisor/Evaluator, Case Integration III, Professional Clinical Doctorate (DPT) Curriculum (WUSM) Enrollment: 85-90 students/Advised: 2 students
2018-2023	Evaluator, Professional Issues and Skill Development III, Professional Clinical Doctorate (DPT) Curriculum (WUSM) Enrollment: 85-90 students
2018-2023	Lab Assistant, Module TBD (PISD IV), Professional Clinical Doctorate (DPT) Curriculum (WUSM) Enrollment: 85-90 students
2018-2020	Lecturer, Movement Science Clinical Fellowship (WUSM) Enrollment: 8 students

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.

Lecture/Key Contributor: Diagnosis & Management of General Medical Conditions

Mentee and Sponsorship Record:

Trainee Advisement

Graduate Students (PhD)

2010-2011	Priscilla Weaver, DPT, PhD, PCS Role: Advisory Committee Member, Indiana University Outcome: Program Director, Physical Therapy, St. Ambrose University
2015-2021	Myra Meekins, DPT, PhD, OCS, FAAOMPT Role: Dissertation Committee Member, Rocky Mountain University Title: The Effect of Chronic Low Back Pain and Trunk Stabilization on Gluteus Medius Activation During Hip Abduction and Hip Abduction - Lateral Rotation Outcome: Assistant Professor, The University of Tennessee Health Science Center
2016-2020	Stefanie Foster, PT, PhD Role: Primary Mentor, Washington University Movement Science Program Title: Movement System Impairments in Patients with Lower Urinary Tract Symptoms Outcome: Graduated

- 2017-2019 Lindsey Brown, DPT, PhD
 Role: Dissertation Committee Member, The Ohio State University
 Title: Informed Decisions and Patient Outcomes: An Interdisciplinary Approach to Hip Pain
 Outcome: Post-doctoral Research Fellow, U.S. Department of Veterans Affairs
- 2017-2021 Ke Song
 Role: Dissertation Committee Member, Washington University Mechanical Engineering & Materials Science
 Title: Subject-specific Musculoskeletal Modeling of Hip Dysplasia Biomechanics
 Outcome: Postdoctoral Research, University of Pennsylvania School of Medicine
- 2022-2025 Meenakshi Sundaram, MS, PT
 Role: Dissertation Committee Member, School of Health and Rehabilitation Sciences, Dept of Physical Therapy, University of Pittsburgh
 Title: Qualitative Motor Control Assessment for Patients with Chronic Pain
 Outcome: Not completed due to health issues
- 2023-2025 Molly Shepherd, PhD Candidate
 Role: Dissertation Committee Member, Washington University Movement Science Program
 Title: Factors that Influence Loading in the Dysplastic Hip
 Outcome: Research Scientist, Washington University
- 2026-present Madison Wissman, PhD Candidate
 Role: Dissertation Committee Member, Washington University Movement Science Program
 Title: TBD
 Outcome: TBD

Graduate Students (Entry level DPT)

- 2012-2015 Jackie Hunt, PT, DPT
 Role: Mentor for Research Assistantship
 Title: Bony Abnormalities of the Hip Joint: A New Comprehensive, Reliable and Radiation-Free Measurement Method Using Magnetic Resonance Imaging.
 Outcome: Poster presentation at professional meeting and published manuscript.
- 2013-2014 Davor Vasiljevic, PT, DPT, MSCI
 Role: Mentor, NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995
 Title: Three Dimensional Kinematics of Visually Classified Lower Extremity Movement Patterns During a Single Leg Squat Among People With Chronic Hip Joint Pain
 Outcome: Master of Science in Clinical Investigation, poster presentation at professional meeting and published manuscript.

2013-2016	Alex Uding, PT, DPT Role: Mentor for Research Assistantship Title: Clinical Tests to Determine Femoral Version Category in People with Chronic Hip Joint Pain and Asymptomatic Controls Outcome: Poster presentation at professional meeting and published manuscript.
2014-2015	Eric Schmidt, PT, DPT, MSCI Role: Mentor, NIH TL1 Predoctoral Clinical Research Trainee, TL1RR024995 Title: Dynamic Knee Valgus Kinematics and Their Relationship to Pain in Women with Patellofemoral Pain Compared to Women With Chronic Hip Joint Pain Outcome: Master of Science in Clinical Investigation, poster presentation at professional meeting and published manuscript.
2014-2017	Matt Mastenbrook, PT, DPT Role: Mentor for Research Assistantship Title: Hip Abductor Muscle Compartment Volume and Strength Differences Between Women with Chronic Hip Joint Pain and Asymptomatic Controls Outcome: Poster presentation at professional meeting and published manuscript.
2015-2018	Trent Wiseman, PT, DPT Role: Mentor for Research Assistantship Title: Ankle Dorsiflexion and 2D Hip, Pelvic, and Trunk Kinematics in Patients with Chronic Hip Joint Pain During Forward Step-Down. Outcome: Poster presentation at professional meeting
2017-2020	Kristen Koch, PT, DPT Role: Mentor for Research Assistantship Title: Comparison between Movement Pattern Training and Strengthening on Muscle Volume and Strength for Hip Pain Outcome: Poster presentation at professional meeting and published manuscript.
2018-2018	Ji Xuanran Internship, Biostatistics
2018-2018	Cassie Davis, BA Biomedical Innovation Program (BMIP), Biomedical Engineering (WUSTL)
2019-2022	Taylor Burlis, PT, DPT Role: Mentor for Research Assistantship Title: Musculoskeletal impairments among Women with Lower Urinary Tract Symptoms Outcome: Poster presentation at professional meeting

2021-2023	Ramya Palaniappan, MD Role: Mentor, NIH TL1 Predoctoral Clinical Research Trainee Title: Comparison between Movement Pattern Training and Strengthening on Kinematics and Kinetics in Patients with Chronic Hip-related Groin Pain Outcome: Published manuscript
2021-2024	Cameron Swick, DPT Role: Mentor for Research Assistantship Title: Platform presentation at 2 professional meetings, published manuscript
2022-2025	Lauren Froehlich, DPT Role: Mentor for Research Assistantship Title: Platform presentation at professional meeting and manuscript in preparation
2024-present	Anjelica Waight, SPT Role: Mentor for Research Assistantship Title: TBD
2025-present	Jillian Kreimer, SPT Role: Mentor for Research Assistantship Title: TBD

Advisor for Capstone Project (Post-Professional DPT)

2004	Marcy Schulz, PT, DPT Title: Physical Therapy Management Following Meniscal Debridement
2007	Gregory Holtzman, PT, DPT Title: Anterior Knee Pain Secondary to Patella Alta: A Critical Review and Case Study Outcome: Poster presentation at professional meeting and published manuscript.
2008	Jennifer C. Hoffman, PT, DPT Title: Taping vs. Bracing for Patellar Glide – Which is More Effective
2009	Cheryl Smith, PT, DPT Title: Diagnosis and Treatment of Two Patients with Hip Pain Using the Movement System Impairment Classification System” Outcome: Poster presentation at professional meeting
2009	Gary Sutton, PT, DPT Title: Influence of Hip Muscle Control in Decreasing Symptoms, Improving Function in a Patient with Osteoarthritis of the Knee.
2011	Sylvia Czuppon, PT, DPT Title: Physical and Psychological Factors Associated with Return to Sport Following Anterior Cruciate Ligament (ACL) Reconstruction Outcomes: Poster presentation at professional meeting and published manuscript.

- 2012 Randy Raugh, PT, DPT
Title: The Effect of Physical Stress to Hyaline Cartilage in the Knee and Implications for Physical Therapy
- 2013 Steve Olsen, PT, DPT
Title: The Effect of Decrease in BMI on Knee Pain and Function Following Aggressive Fitness Programs
- 2014 Mike Horan, PT, DPT
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, DPT
Title: Treatment of a Severe Quadriceps Laceration: A Case Study Based on the Muscle Physiology to Regain Strength and Functional Mobility
- 2005 Darren Bass, PT, DPT
Title: Comparison of Rehab Outcomes for Postoperative Anterior cruciate Ligament Surgeries Via Various Surgical Techniques
- 2006 Brigitte Cutler, PT, DPT
Title: Radiological MR Imaging Studies, Low Back Biomechanics and Low Back Pain
- 2006 Brigitte Cutler, PT, DPT
Title: Spine Surgery: The Physical Therapy Perspective
- 2006 Karen Krochina, PT, DPT
Title: The Effects of Knee Rotation in the Frontal and Transverse Planes on Knee Pain and Pathology.

Mentor for Clinical Research:

- 2011-2020 Sylvia Czuppon, PT, DPT, OCS, Sports-specific injuries
- 2017-2020 Kate Glaws, PT, DPT, SCS, Hip-related groin pain
The Ohio State University
- 2018-2023 Lauren Mills, PT, DPT, SCS, Risk factors for athletic injuries
- 2021-present Becky Demargel, PT, DPT, Factors associated with hip-specific function

Mentor for Clinical Track Faculty

- 2024-Present Megan Burgess, PT, DPT
- 2024-Present Jeff Konrad, PT, DPT, PhD

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

- 2008-2014 Use of imaging in clinical practice
- 2020-Present Rehabilitation for Hip Conditions

Research

Present Extramural Grants:

- 2022-2027 **Source: NIH-NICHD, NCMRR, R25 HD109110**
Role: Executive Committee/Program Faculty
Title: TIDE: Establishing Trust, Stimulating Inquiry, Nurturing Development, and Community Engagement
Principal Investigator: Elizabeth Skidmore, OT, PhD; Gregory Hicks, PT, PhD
Amount: \$826,345
- 2026-2031 **Source: NIH-NICHD, NCMRR, 1K12HD121046**
Role: Site PI, Advisory Committee
ACT4Rehab: Advancing Clinical and Translational Research Training in Rehabilitation
Principal Investigators: Elizabeth Skidmore, OT, PhD; Michael Boninger, Gregory Hicks, PT, PhD
Amount: \$4,657,395
- 2026-2031 **Source: NIH-NIAMS, 1R01AR085149**
Role: Expert Advisory Panel
Title: Intra-articular corticosteroid injections for symptomatic osteoarthritis: The effects of injection dose, frequency, and timing on safety
Principal Investigator: Anne Butler
Amount: \$2,017,972 (2025)

Present Intramural Grants:

- 2026-2027 **Source: The Foundation for Barnes-Jewish Hospital/Clinical and Translational Research Funding Program**
Role: Principal Investigator
Title: Using Personalized Rehabilitation to Reduce Disease and Increase Activity of Patients with Polymyalgia Rheumatica: a Feasibility Randomized Clinical Trial
Amount: \$50,000

Submitted Applications:

- 2026-2027 **Source: American Diabetes Association**
Role: Co-Investigator
Title: Personalized and adapted physical activity to improve diabetes management in aging adults with mobility disabilities
Amount: \$600,000

Past Extramural Funding:

- 2006-2008 **Source: NIH-NICHD, NCMRR, R01 HD047709-01**
Role: Co-Investigator
Title: "Classification-Directed Treatment of Low Back Pain"
Principal Investigator: Van Dillen, L.R.
Amount: \$351,168

2006-2010	Source: NIH-NCRR, 1 UL1 RR 024992-01 Role: Scholar Title: Washington University Institute of Clinical and Translational Sciences Research Education, Training and Career Development Principal Investigator: Polonsky, K.S. Amount: \$6,000
2008-2013	Source: NIH-NICHD, NCMRR, NINDS, K12 HD055931 Role: Scholar Title: Multicenter Career Development Program for Physical and Occupational Therapists Principal Investigator: Mueller, M.J. Amount: \$4,626,510 total; Scholar amount \$95,580/year for 3 years
2011-2015	Source: NIH-NICHD, NCMRR, K23HD067343 Role: Principal Investigator Title: Rehabilitation Factors in Pre-Arthritic Hip Disease Amount: \$427,761
2014-2015	Source: Pediatric Orthopaedic Society of North America Role: Co-investigator Title: Clinical planning grant on motion analysis in femoroacetabular impingement Principal Investigator: Podeszwa, D, MD
2014-2016	Source: NIH-NIAMS, L30 AR066989 Role: Principal Investigator Title: Loan Repayment Program
2016-2017	Source: NIH-NIAMS, L30 AR066989 Role: Principal Investigator Title: Loan Repayment Program Renewal
2016-2018	Source: NIH-NICHD, NCMRR, R21HD086644 Role: Co-Principal Investigator Title: Movement Pattern Training in People with Intra-articular, Prearthritic Hip Disorders Amount: \$423,377
2016-2019	Source: Department of Defense Role: Collaborator Title: METRC REPAIR: Rehabilitation Enhanced by Partial Arterial Inflow Restriction Stinner DJ, MacKenzie EJ; McAndrew-Project PI of Subc from JHU
2017-2018	Source: Ohio Physical Therapy Association Role: Mentor Title: Posture and Movement Training for Persons with Non-Arthritic Hip Disease Principal Investigator: Lindsey Brown, PT, DPT

2017-2019	Source: Foundation for Physical Therapy Research Role: Principal Investigator Title: Movement Pattern Training in People with Intra-articular, Prearthritic Hip Disorders Amount: \$40,000
2017-2020	Source: Orthopaedic Research and Education Foundation Role: Consultant Title: Mobile Weight-Support (MWeST): A Prospective, Randomized Controlled Trial for Mobility after Geriatric Lower Extremity Fracture Principal Investigator: Miller, A, MD
2018-2019	Source: The Foundation for Barnes-Jewish Hospital/Clinical and Translational Research Funding Program Role: Principal Investigator Title: Movement System Impairments in Patients with Lower Urinary Tract Symptoms Amount: \$48,000
2019-2020	Source: Foundation for Physical Therapy Research Role: Principal Investigator Title: Comparison of Movement Pattern Training and Manual Therapy for Prearthritic Hip disorders: A Pilot Randomized Clinical Trial Amount: \$240,000
2018-2023	Source: NIAMS, NIH Role: Collaborator Title: Muscle Geometry and its Influence on Function in Patients with Development Dysplasia of the Hip Principal Investigator: Michael Harris, PhD
2021-2023	Source: Foundation for Physical Therapy Research Competitive Renewal Role: Principal Investigator Title: Comparison of Movement Pattern Training and Manual Therapy for Prearthritic Hip disorders: A Pilot Randomized Clinical Trial Amount: \$120,000
2022-2023	Source: NIH-NICHD, NCMRR, K12 HD055931-15 Role: Principal Investigator Title: Multicenter Career Development Program for Physical and Occupational Therapy Amount: \$3,867,387
2022-2024	Source: NIH-NINR, R21NR020379 Role: Co-Investigator Title: Assessing multifactorial etiology of IC/BPS using a novel PFM-Hip-Trunk muscle network analysis Principle Investigator: Yingchun Zhang, PhD Amount: \$442,070

2023-2025 **Source: NIH-NINR, R21HD112985**
Role: Co-Investigator
Title: Assessing Multifactorial Etiology of Overactive Bladder Using a Novel PFM-HIP-TRUNK Muscle Network Analysis
Principle Investigator: Theresa Spitznagle, DPT, WCS, Yingchun Zhang, PhD
Amount: \$440,650

Past Intramural Funding:

2007-2008 **Source: Mallinckrodt Institute of Radiology**
Role: Principal Investigator
Title: "Ultrasonography of Intra-Articular Disease of the Hip"
Amount: \$1,500

2008-2010 **Source: Program in Physical Therapy**
Role: Principal Investigator
Title: "Ultrasonography of Intra-Articular Disease of the Hip"
Amount: \$1,500

2008-2010 **Source: Mallinckrodt Institute of Radiology**
Role: Principal Investigator
Title: "Investigation of Proposed Risk Factors for Intra-Articular Hip Disorders"
Amount: \$13,500

2010-2013 **Source: ICTS JIT Core Usage Funding**
Role: Co-investigator
Title: Novel tools for assessing the treatment response to antibiotic therapy in vertebral osteomyelitis: an exploratory study.
Principal Investigator: Marschall J, MD

2017-2018 **Source: ICTS JIT Core Usage Funding**
Role: Principal Investigator
Title: Mechanisms Underlying Movement Pattern Training in People with Prearthritic Hip Disorders
Amount: \$10,000

2020-2021 **Source: Big Ideas, Institute for Informatics, WUSM**
Role: Contributor
Title: Integration of mobile health (mHealth) based behavioral health treatment (BHT) with clinical care and the electronic medical record (EMR)
Amount: \$50,000
Principle Investigator: Abby Cheng, MD

2019-2022 **Source: ICTS JIT Core Usage Funding**
Role: Principal Investigator
Title: Sustained Effects of Rehabilitation On Joint Structure In People With Prearthritic Hip Disorders
Amount: \$9,992.50

2024-2025

Source: ICTS JIT Core Usage Funding

Role: Principal Investigator

Title: Using a Personalized Approach to Reduce Pain and Increase Activity of Patients With Hip Joint Pain

Amount: \$5,000

Bibliography (§ indicates trainee or junior faculty member mentored by Dr. Harris-Hayes)

Original, peer-reviewed articles in referred journals

1. **Harris-Hayes M**, Wendl P, Sahrmann 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.
2. 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. PMCID: [PMC2635448](#)
3. **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. PMCID: [PMC2752279](#)
4. Prather H, **Harris-Hayes M**, Hunt DM, Steger-May K, Mathew V, Clohisy JC. Reliability and agreement of hip range of motion and provocative physical examination tests in asymptomatic volunteers. *PM R*. 2010 Oct;2(10):888-95. doi: 10.1016/j.pmrj.2010.05.005. Erratum in: *PM R*. 2011 Mar;3(3):286. PMID: 20970757; PMCID: PMC3438506.
5. **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. *J Rehabil Med*. 2010 Mar;42(3):221-7. doi: 10.2340/16501977-0505. PMID: 20411216; PMCID: PMC3574865.
6. 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. *Man Ther*. 2011 Aug;16(4):344-50. doi: 10.1016/j.math.2010.12.007. Epub 2011 Jan 20. PMID: 21256073; PMCID: PMC3095730.
7. **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*. 2012;5:333-343. PMCID: [PMC3586766](#).
8. 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. PMCID: [PMC3594845](#).
9. Holtzman G, Harris-Hayes M, Hoffman SL, Zou D, Edgeworth RA, Van Dillen LR. Clinical examination procedures to determine the effect of axial decompression on low back pain symptoms in people with chronic low back pain. *J Orthop Sports Phys Ther*. 2012 Feb;42(2):105-13. doi: 10.2519/jospt.2012.3724. PMID: 22027267; PMCID: PMC3628684.
10. Klein SE, Dale AM, **Harris-Hayes (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. PMCID: [PMC4083061](#)
11. §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. PMCID: [PMC3932739](#).
12. §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. PMCID: [PMC3975129](#).

13. **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. PMCID: [PMC3918936](#).
14. **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. PMCID: [PMC4080603](#).
15. **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. PMCID: [PMC4280561](#).
16. **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. PMCID: [PMC4216739](#).
17. 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. PMCID: [PMC4385333](#).
18. **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](#)
19. 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](#)
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21. §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](#)
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23. §Uding A, Bloom N, Commean PK, Hillen TJ, Patterson JD, Clohisy JC, **Harris-Hayes M**. Clinical Tests to Determine Femoral Version Category in People with Chronic Hip Joint Pain and Asymptomatic Controls. *Musculoskeletal Science & Practice*. 2019;39:115-122. PMCID: [PMC6353568](#)
24. §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*. 2019;8:486-493. PMCID: [PMC6738932](#)
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29. **Harris-Hayes M**, Steger-May K, Bove A, Foster SN, Mueller MJ. Clohisy JC, Fitzgerald GK. Movement pattern training compared with standard strengthening and flexibility among patients with hip-related groin pain: results of a pilot multicenter randomised clinical trial. *BMJ Open Sport & Exercise Medicine*. 2020;6:e000707/ PMID: [PMC7254120](#).
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36. [§]Brown-Taylor L, **Harris-Hayes M**, Foraker R, Vasileff W, Glaws K, Di Stasi S. Treatment decisions after interdisciplinary evaluation for non-arthritis hip pain: a randomized controlled trial. *Physical Medicine and Rehabilitation*. 2021;1-12. DOI: 10.1002/pmrj.12661. [PMCID: PMC8712617](#).
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