

**Linda R, Van Dillen, PhD, PT**  
**CURRICULUM VITAE**

**PRESENT POSITION:** Professor, Physical Therapy and Orthopaedic Surgery  
Associate Director for Musculoskeletal Research, Research Division  
Program in Physical Therapy  
Washington University School of Medicine  
St. Louis, Missouri

**EDUCATION:**

**University of Missouri/Columbia**  
Columbia, Missouri  
B.S. in Physical Therapy  
Minor: Biology  
1979

**Washington University**  
St. Louis, Missouri  
M.H.S. in Physical Therapy  
1985

**Washington University**  
St. Louis, Missouri  
Ph.D. in Experimental Psychology; Emphasis: Perceptual-Motor Control  
Committee Chair: Richard A. Abrams  
1994

**ACADEMIC POSITIONS, PROFESSIONAL EXPERIENCE, EMPLOYMENT:**

<u>Position</u>	<u>Institution</u>	<u>Dates</u>
Staff Physical Therapist	<b>Irene Walter Johnson Institute of Rehabilitation</b> Neurology Division, Physical Therapy Washington University School of Medicine St. Louis, Missouri	1979-1981
Staff Physical Therapist (part-time)	<b>Home Rehabilitation Associates</b> Home Health St. Louis, Missouri	1981-1982
Senior Physical Therapist	<b>Irene Walter Johnson Institute of Rehabilitation</b> Neurology Division, Physical Therapy Washington University School of Medicine St. Louis, Missouri	1981-1985
Lecturer	<b>Washington University School of Medicine</b> Physical Therapy St. Louis, Missouri	1981-1988
Supervisor	<b>Irene Walter Johnson Institute of Rehabilitation</b> Neurology Division, Physical Therapy Washington University School of Medicine St. Louis, Missouri	1985-1988
Instructor (part-time)	<b>Washington University School of Medicine</b> Physical Therapy St. Louis, Missouri	1988-1994
Teaching Assistant	<b>Washington University</b> Department of Psychology Statistics St. Louis, Missouri	1989-1990
Graduate Student Research Assistant	<b>Washington University</b> Perceptual Motor Laboratory St. Louis, Missouri	1992-1994
Instructor	<b>Washington University School of Medicine</b> Physical Therapy St. Louis, Missouri	1994-1998

**ACADEMIC POSITIONS, PROFESSIONAL EXPERIENCE, EMPLOYMENT: (cont'd)**

<u>Position</u>	<u>Institution</u>	<u>Dates</u>
Assistant Professor	<b>Washington University School of Medicine</b> Physical Therapy St. Louis, Missouri	1999-2007
Assistant Professor	<b>Washington University School of Medicine</b> Physical Therapy and Orthopaedic Surgery St. Louis, Missouri	2006-2007
Associate Professor (with tenure)	<b>Washington University School of Medicine</b> Physical Therapy and Orthopaedic Surgery St. Louis, Missouri	2007-Present 2008-Present
Associate Director for Musculoskeletal Research, Research Division	<b>Washington University School of Medicine</b> Physical Therapy St. Louis, Missouri	2011-Present
Professor	<b>Washington University School of Medicine</b> Physical Therapy and Orthopaedic Surgery St. Louis, Missouri	2013-Present

**UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES:**

**University/Hospital Committees**

- Member, Admissions Committee, Entry-Level Master's Program, Program in Physical Therapy, Washington University School of Medicine, 1997-2001
- Member, Master's-Level Student Research Award Committee, Program in Physical Therapy, Washington University School of Medicine, 1997-2002
- Member, Outpatient Rehabilitation Clinical Outcomes Committee, Barnes-Jewish Hospital, 1995-1998
- Ad Hoc Member, Human Studies Committee, Washington University School of Medicine, 1997-Present
- Member, Steven J. Rose Research Award Committee, Program in Physical Therapy, Washington University School of Medicine, 1997-Present
- Member, Program Innovation Council, Program in Physical Therapy, Washington University School of Medicine, 1996-1997
- Member, Research Advisory Council, Program in Physical Therapy, Washington University School of Medicine, 2003-Present
- Member, Faculty Search Committee, Program in Physical Therapy, Washington University School of Medicine, 2004-2005

## **UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES: (cont'd)**

### **University/Hospital Committees**

- Member, Data and Safety Monitoring Committee, “Botulinum toxin effects on plantar ulcer recurrence” (NICHD R21 HD048972), Program in Physical Therapy, Washington University School of Medicine, 2004-2006
- Member, Data and Safety Monitoring Committee, “Effect of weight-bearing exercise on people with diabetes and neuropathic feet” (NICHD R21 HD058938), Program in Physical Therapy, Washington University School of Medicine, 2010-2011
- Member, Steering Committee, Doctorate in Movement Science, Program in Physical Therapy, Washington University School of Medicine, 2010-Present
- Member, Center for Musculoskeletal Research, Department of Orthopaedic Surgery, Washington University School of Medicine, 2010-Present
- Member, Planning Committee for Steven J. Rose Symposium and Alumni Day, Program in Physical Therapy, Washington University School of Medicine, 2008, 2012
- Member, Data and Safety Monitoring Committee, “Dose response of movement practice during stroke rehabilitation” (NICHD R01 HD068290), Program in Physical Therapy, Washington University School of Medicine, 2010-Present
- Member, Research Affairs, Washington University School of Medicine, 2011-Present
- Chair, Research Division Mission Statement Committee, Program in Physical Therapy, 2013
- Member, Research Division Metrics Committee, Program in Physical Therapy, 2013-Present
- Chair, Movement System Committee, Research Division, Program in Physical Therapy, 2013-Present
- Member, Internal Advisory Committee of the P30 Core Centers for Musculoskeletal Biology and Medicine, Department of Orthopaedic Surgery, 2014-Present

### **State Committees**

- Co-Chairman, Research Committee, Missouri Physical Therapy Association, 1986-1988

### **National Committees**

- Content Expert Reviewer, American Physical Therapy Association: U.S. Department of Labor's Occupational Information Network (O'Net) Database of Occupational Titles Documents, March 2001
- Member and Scientific Reviewer, Abstracts Review Committee, Research Section, American Physical Therapy Association, 2004-2007
- Member, Subcommittee on Differential Diagnosis, American Physical Therapy Programming Subcommittee, 2005-2013
- Member, Taskforce on Evaluation Database to Guide Effectiveness, Research Section, American Physical Therapy Association, 2005-Present
- Member, Research Committee, Orthopaedic Section, American Physical Therapy Association, 2005-2009

**UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES: (cont'd)**

**National Committees**

- Member, Panel for Development of Clinical Practice Guidelines for Physical Therapy Treatment of Low Back Pain, Orthopaedic Section, American Physical Therapy Association, 2006-2012
- Member, Diagnosis Dialog Planning Committee, Program in Physical Therapy, Washington University School of Medicine, 2006-Present
- Moderator, Marilyn Gossman Graduate Student Research Symposium, Research Section, American Physical Therapy Association, 2008-2014
- Research Chair, Research Section, American Physical Therapy Association, 2008-2014
- Chair, Data and Safety Monitoring Board, “Systems science center for musculoskeletal CAM therapies” (NCCAM U19 AT006057), Orthopedic Research Center, Michigan State University, 2011-Present
- Expert Reviewer for American Physical Therapy Association: Agency for Health Care Research and Quality Key Questions for Noninvasive Treatments for Low Back Pain, 2014

**Scientific Review Committees**

**National**

- Scientific Reviewer, Orthopaedic Section, American Physical Therapy Association, 2005-2007
- Scientific Reviewer, Washington University Institute of Clinical and Translational Sciences Review Panel, January 2008
- Member, Scientific Review Committee, Foundation for Physical Therapy, 2008-2011
- Ad Hoc Scientific Reviewer, Special Emphasis Panel, Musculoskeletal, Oral and Skin Sciences Internal Review Group, National Institutes of Health, 2011
- Scientific Reviewer, National Institute for Child Health and Development, National Institutes of Health, Loan Repayment Program, 2014

**International**

- Scientific Reviewer, Research Foundation of Belgium, 2011
- Member, Expert Reviewers’ Panel, Division of Biology and Medicine of the National Research Council, Swiss National Science Foundation, 2011-Present
- Scientific Reviewer, Israel Science Foundation, 2013

**LICENSURE/REGISTRATION:**

- Missouri #01032

**HONORS AND AWARDS:**

- Summa Cum Laude, BSPT, University of Missouri, Columbia 1979
- Magna Cum Laude, MHSPT, Washington University in St. Louis 1985
- Doctoral Award, Foundation for Physical Therapy 1992
- Research Award, Section on Women's Health, American Physical Therapy Association 2000
- Outstanding Faculty Mentor Certificate of Special Recognition, Doctorate Level Training, Washington University 2005
- Nominee, American Physical Therapy Association Research Award 2014

**EDITORIAL RESPONSIBILITIES:**

**Editorial Review Board Member**

- *Journal of Orthopedic and Sports Physical Therapy* 2003-2012

**Manuscript Reviewer**

- *Physical Therapy* 1996-Present
- *Journal of Orthopaedic and Sports Physical Therapy* 1998-2002
- *Archives of Physical Medicine and Rehabilitation* 2002-Present
- *Spine* 2003-Present
- *Clinical Biomechanics* 2005-Present

**SCIENTIFIC/PROFESSIONAL SOCIETIES AND ORGANIZATIONS:**

**University**

- Academic Women's Network 1995-Present

**State**

- Member, Missouri Physical Therapy Association 1981-Present

**National**

- Member, American Physical Therapy Association 1977-Present
  - Section: Research, 1979-Present
  - Section: Neurology, 1985-1987; 2004-Present
  - Section: Orthopaedics, 1994-Present
- Member, American Congress of Rehabilitation Medicine 2001-2003

**SCIENTIFIC/PROFESSIONAL SOCIETIES AND ORGANIZATIONS:**

**International**

- International Association for the Study of Pain 2005-2007
- International Society for Posture and Gait Research 2007-2011
- International Society for Electrophysiology and Kinesiology 2012-Present
- North American Spine Society 2012-Present

**MAJOR INVITED PROFESSORSHIPS AND LECTURESHIPS:**

**International**

**Visiting Professorship:**

University of Waterloo, Department of Kinesiology  
Spine Biomechanics Laboratory  
Dr. Stuart McGill  
Chair of Kinesiology and Director of Spine Biomechanics Laboratory  
Waterloo, Canada 2002

**Invited Presentations: (Since 2007)**

“Influence of Limb Movements on the Lumbar Spine” - **Invited Speaker**  
Low Back Pain Research Group, Spine Center of Clinical Research Excellence,  
NHMRC Center, University of Queensland  
Brisbane, Australia 2009

“Relative Stiffness: A Motor Control Issue in Low Back Pain?” - **Invited Speaker**  
2009 Spinal Control Symposium, Spine Center of Clinical Research Excellence,  
NHMRC Center, University of Queensland  
Brisbane, Australia 2009

“Spinal Control Symposium: Subgrouping Low Back Pain” - **Invited Keynote Speaker**  
7<sup>th</sup> International World Congress on Low Back and Pelvic Pain  
Los Angeles, CA 2010

“Classification-Specific Treatment in Chronic Low Back Pain: A Prospective,  
Randomized, Controlled Clinical Trial” - **Invited Keynote Speaker**  
8<sup>th</sup> International World Congress on Low Back and Pelvic Pain  
Dubai, United Arab Emirates 2013

## MAJOR INVITED PROFESSORSHIPS AND LECTURESHIPS: (cont'd)

### National

#### Invited Presentations: (Since 2007; 45 total since 1995)

- “Low Back Pain Classification: Are We All Seeing the Same Thing?” -  
**Invited Research Key Note Speaker**  
American Association of Orthopedic and Manual Physical Therapists (AAOMPT)  
St. Louis, MO 2007
- “Relative Flexibility of the Lumbar Region in People with and without Low Back Pain” -  
**Invited Speaker**  
St. Louis University College of Health Sciences Research Seminar 2010
- “Relative Stiffness: A Control Issue in Low Back Pain?” - **Invited Speaker**  
Department of Physical Therapy, University of Kansas Medical Center  
Kansas City, KS 2010
- “Observations of People with Non-Specific Low Back Pain: Clinically-Based  
Measures” - **Invited Speaker**  
Center for Orthopedic Research Michigan State University  
College of Osteopathic Medicine, Michigan State University  
Lansing, MI 2012
- “Hip and Spine Interactions in People with Low Back Pain” - **Invited Speaker**  
Lumbar Spine Research Society 5<sup>th</sup> Annual Meeting  
Chicago, IL 2013
- “Assessment and Treatment of Movement System Impairment Syndromes in  
People with Low Back Pain” - **Invited Speaker**  
1<sup>st</sup> Annual Meeting of the Orthopaedic Section of the American Physical Therapy  
Association  
Orlando, FL 2013
- “Relative Stiffness Impairments and Low Back Pain” – **Invited Speaker**  
Program in Physical Therapy and Human Movement Science,  
Feinberg School of Medicine, Northwestern University  
Chicago, IL 2013



## **MAJOR INVITED PROFESSORSHIPS AND LECTURESHIPS: (cont'd)**

### **National**

- “Adherence: An Important but Often Forgotten Determinant of Treatment Effectiveness”  
**Invited Speaker**  
2014 Combined Sections Meeting of the American Physical Therapy Association  
Orthopaedic Section  
Las Vegas, NV 2014
- “The Active Female Throughout the Lifespan: Clinical Updates in Sports Medicine and Women’s Health”  
**Invited Speaker**  
Women’s Health Symposium  
Rehabilitation Institute of Chicago  
Chicago Illinois 2014

### **University**

#### **Research Presentations: (Since 2007; 16 total since 1995)**

- “Update of Conservative Management of Low Back Pain” - **Invited Speaker**  
Department of Outpatient Physical Therapy  
The Rehabilitation Institute of St. Louis 2008
- Low Back Pain: When and Where Does Motion Occur? - **Invited Speaker**  
Alumnae Day, Program in Physical Therapy  
Washington University School of Medicine 2008
- “Observations of People with Chronic, Recurrent Low Back Pain” - **Invited Speaker**  
Department of Anesthesiology, Pain Group  
Washington University School of Medicine 2011

#### **CONSULTING RELATIONSHIPS AND BOARD MEMBERSHIPS:**

- Consultant, Program for the Advancement of the UAW-Ford  
On-Site Rehabilitation Centers, Department of Physical  
Medicine and Rehabilitation, Johns Hopkins Medical School  
Baltimore, MD 2005-2007

#### **RESEARCH SUPPORT (GOVERNMENTAL/NON-GOVERNMENTAL):**

## **Previous**

Role: Co-Principal Investigator  
Title: "Reliability of a Classification Scheme for Patients with Low Back Pain and Analysis of Selected Quantitated Variables"  
Source: Foundation for Physical Therapy  
Grant#: 94R 03 NOR 02  
Co-Principal Investigator: Norton, B.J.  
Dates: July 1994-June 1997

Role: Principal Investigator  
Title: "Mechanically-Based Impairment Measures of Low Back Pain"  
Source: NICHD, K01 Mentored Research Scientist Award  
Grant#: K01 HD001226  
Dates: March 2000-February 2005; NCE March 2005-February 2006

Role: Principal Investigator  
Title: "Classification-Directed Treatment of Low Back Pain"  
Source: NICHD  
Grant#: 1R01 HD047709-04  
Dates: June 2006-May 2010; NCE June 2010 to April 2011

Role: Co-Investigator  
Title: "Measuring Outcomes in Young Hip Patients"  
Source: The Hip Society  
Grant#: NA  
Principal Investigator: Clohisy, J.C.  
Dates: June 2007-May 2008

Role: Co-Investigator  
Title: "Development of a Collaborative Research Team for Prevention of Hip Osteoarthritis"  
Source: NCRR - Washington University Institute of Clinical and Translational Sciences  
Grant#: UL1 RR024992  
Principal Investigator: Clohisy, J.C.  
Dates: January 2008-December 2009

Role: Principal Investigator  
Title: "Trunk and Pelvic Region Characteristics in Subgroups of People with Low Back Pain"  
Source: NCRR - Washington University Institute for Clinical and Translational Sciences and Mallinckrodt Institute of Radiology  
Grant#: UL1 RR024992  
Dates: May 2009-July 2010

## **Previous**

Role: Principal Investigator  
Title: "Anterior Shear Findings in People with Flexion-Related Low Back Pain"  
Source: Missouri Physical Therapy Association  
Grant#: NA  
Dates: July 2009-June 2011

Role: Co-Investigator  
Title: "The Hip Spine Syndrome: A Prospective Descriptive Study of Clinical Presentation and Diagnostic Tests for Patients with Coexisting Hip and Lumbar Spine Disorders"  
Source: NCRR - Washington University Institute of Clinical and Translational Sciences  
Grant#: UL1 RR024992  
Principal Investigator: Prather, H.  
Dates: July 2010-June 2011

Role: Co-Investigator  
Title: "The Hip-Spine Syndrome: A Prospective Descriptive Study of Clinical Presentation and Physical Examination"  
Source: Foundation for Physical Medicine and Rehabilitation  
Grant#: NA  
Principal Investigator: Prather, H.  
Dates: September 2010-August 2011

Role: Principal Investigator  
Title: "The Role of Daily Activities to Low Back Pain: A Feasibility Study"  
Source: Research Division, Program in Physical Therapy, Washington University School of Medicine  
Dates: July 2008-June 2010

Role: Co-Investigator  
Title: "Effect of Unloading Techniques as a Component of Treatment for People with Long Standing Neck Pain"  
Source: Research Division, Program in Physical Therapy, Washington University School of Medicine  
Principal Investigator: McDonnell, M.K.  
Dates: September 2008-June 2010  
Role: Consultant

## **Previous**

Title: "Mechanisms of Specific Trunk Exercises in Low Back Pain"

Source: NICHD

Grant#: R01 HD040909

Principal Investigator: Henry, S.M.

Dates: September 2010-March 2012

Role: Co-Investigator

Title: "Musculoskeletal Pain Problems in Professional Musicians"

Source: Research Division, Program in Physical Therapy, Washington University School of Medicine

Principal Investigator: Khoo-Summers, L.

Dates: October 2009-September 2011

Role: Co-Investigator

Title: "Physical Therapy in the Emergency Department: Intervention Effects for Patients with Acute Back Pain"

Source: Research Division, Program in Physical Therapy, Washington University School of Medicine

Principal Investigator: McDonnell, D.F.

Dates: May 2011-April 2012; NCE April 2013

Role: Co-Investigator

Title: "Back Pain in the Emergency Department: A New Service Delivery Model"

Source: Missouri Physical Therapy Association

Grant#: NA

Principal Investigator: McDonnell, D.F.

Dates: June 2011-May 2013

Role: Co-Investigator

Title: "Development of an Optimal Data Acquisition Protocol for Spine Kinematics and Trunk Muscle Activation in Patients with Non-Specific Low Back Pain"

Source: Canadian Institutes for Health Research, REPAR Program

Grant#: 2012-2013-#2

Principal Investigator: Preuss, R.

Dates: May 2012-April 2013

## **Previous**

Role: Co-Mentor  
Title: "Rehabilitation Factors in Pre-Arthritic Hip Disease"  
Source: NICHD, NINDS  
Grant#: K12 HD055931  
Principal Investigator: Harris-Hayes, M.  
Dates: September 2008-March 2011

Role: Primary Mentor  
Title: "Prediction of Ambulation and Disability in Adults with Multiple Sclerosis Using Instrumented Measures of Lower Extremity Impairment"  
Source: NICHD, NINDS  
Grant#: K12 HD055931  
Principal Investigator: Wagner, J.  
Dates: September 2008-August 2013

Role: Co-Mentor  
Title: "Brain Spectroscopy Following Exercise Training in Chronic Low Back Pain"  
Source: NCCR, Kansas University Hartland Institute for Clinical & Translational Research  
Grant#: KL2 RR033177 & UL1 RR033179  
Principal Investigator: Sharma, N.K.  
Dates: July 2011-February 2014

## **Current**

Role: Co-Mentor  
Title: "Rehabilitation Factors in Pre-Arthritic Hip Disease"  
Source: NICHD  
Grant#: K23 HD067343  
Principal Investigator: Harris-Hayes, M.  
Dates: September 2011-August 2015

Role: Principal Investigator  
Title: "Relationship Between Movement and Alignment Patterns During Clinical Tests and Functional Activities in People with Low Back Pain"  
Source: Missouri Physical Therapy Association  
Grant#: NA  
Dates: July 2012-June 2014; NCE June 2015

## **Current**

Role: Principal Investigator  
Title: “Spinal Control During Functional Activities to Improve Low Back Pain Outcomes”  
Source: NICHD  
Grant#: 2R01 HD047709-09  
Dates: April 2013-March 2018

## **TEACHING TITLE AND RESPONSIBILITIES:**

### **Summary of Current Teaching Responsibilities**

#### **Professional Doctorate in Physical Therapy Curriculum**

Diagnosis, Evidence and Analysis I: lab assistant  
Diagnosis, Evidence and Analysis II: lecturer  
Professional Issues and Skills Development: lab assistant  
Anatomy: lecturer  
Diagnosis and Management of Musculoskeletal Conditions II: lecturer  
Diagnosis and Management of Musculoskeletal Conditions III: lecturer  
Case Integration Lab I: lecturer and lab assistant  
Case Integration Lab III: lecturer  
Moderators of Health: lecturer

#### **Post Professional Doctorate in Physical Therapy Curriculum**

Evidence, Analysis, and Synthesis II: lecturer  
Diagnosis and Management of Clinical Conditions Lower Quarter: lecturer

#### **Doctor of Philosophy in Movement Science Curriculum**

Readings in Movement Science: advisor  
Independent Study in Movement Science: advisor  
Lab Practicum in Movement Science: advisor  
Program Seminar in Movement Science: coordinator of seminar speakers; lecturer

#### **Clinical Fellowship**

Journal club readings: developer  
Weekend in house session: lecturer

## **Summary of Past Teaching Responsibilities**

### **Master's in Physical Therapy Curriculum**

Clinical Tests and Procedures in Physical Therapy: lecturer  
Diagnosis and Management of Neurological Conditions: lecturer  
Diagnosis and Management of Musculoskeletal Conditions: lecturer  
Topics in Pathokinesiology: lecturer  
Selected Conditions in Physical Therapy: lecturer  
Clinical Research Methods in Physical Therapy: lecturer  
Quantitative Methods in Psychology: I and II: teaching assistant and lecturer  
Clinical Research Methods I and II: lecturer  
Clinical Diagnosis and Management II: lecturer  
Kinesiology: lab assistant  
Anatomy: lecturer  
Senior Seminar: instructor

### **Post-Professional Doctorate in Physical Therapy Curriculum**

Diagnosis of Musculoskeletal Dysfunction: Spine I: lecturer  
Treatment of Musculoskeletal Dysfunction: Spine I: lecturer  
Case Studies in Musculoskeletal Dysfunction: Spine I: lecturer  
Essentials of Evidence-Based Clinical Practice I: lecturer  
Evidence Analysis and Synthesis: lecturer

## **Student Advisement (current)**

### **Faculty Career Development Trainees**

#### Washington University

*Marcie Harris-Hayes*, September 2011-Present, Fellow, K23 Mentored Clinical Scientist Trainee (NICHD K23 HD067343), Program in Physical Therapy, Washington University Medical School

- Mentor Team Member, Project Title: Rehabilitation factors in pre-arthritis hip disease

*Simon Tang*, May 2014-Present, Assistant Professor, Orthopaedic Surgery, Washington University Medical School

- Mentor Team Member

#### Outside University

*Neena Sharma*, August 2010-Present, Fellow, KL2 Clinical and Translational Mentored Career Development Award Trainee, Kansas University Medical School (NCRR KL2 RR033177 & UL1 RR033179)

- Mentor Team Member, Project Title: Brain spectroscopy after exercise in chronic LBP

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Student Advisement (current)**

## **Ph.D. in Movement Science**

*Christopher Sorensen, MS*, August 2010-Present, Program in Physical Therapy, Washington University School of Medicine (NCRR TL1 RR024995 & UL1 RR024992)

- Primary Mentor, Project Title: Symptom behavior and risk factors for low back pain in prolonged standing
  - Scholarships
    - TL1 Pre-Doctoral Scholarship (Standard Program) 2011-2014
  - Awards
    - 2<sup>nd</sup> place award, Poster presentation, 17th Annual Washington University Graduate Student Research Symposium

*Andrej Marich, DPT*, August 2012-Present, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Mentor, Project Title: Relationship between movement and alignment patterns during standardized clinical tests and functional activities
  - Scholarships
    - Florence P. Kendall Doctoral Scholarship 2012-2013
  - Awards
    - 3<sup>rd</sup> place award, Poster presentation, 19th Annual Washington University Graduate Student Research Symposium

*Ching Ting Hwang, BS*, August 2013-Present, Program in Physical Therapy, Washington University School of Medicine

- Primary Mentor, Project Title: Hip-Spine Syndrome
  - Fellowships
    - Olin Women's Fellowship 2013-2017

*Victor Cheuy, BS*, September 2013-Present, Program in Physical Therapy, Washington University School of Medicine

- Primary Dissertation Committee Member, Project Title: Contributing factors to forefoot deformity in the diabetic, neuropathic foot

## **PhD in Neuroscience**

*Taylor Sheahan, MS*, May 2014-Present, Department of Neuroscience, Division of Biology and Biomedical Sciences, Washington University School of Medicine

- Primary Dissertation Committee Member, Project Title: Exercise effects in chronic pain

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Student Advisement (current)**



### Outside University

*Daniel Azevedo, PT, MSc.* April 2014-Present, Universidade Cidade de São Paulo, São Paulo, Brazil.

- Primary Dissertation Committee Member, Movement system impairment based classification vs. general exercise for chronic non-specific low back pain: A randomized, clinical trial

### **Post-Doctoral Fellow**

*Adam Abraham, PhD*, April 2014-Present, Department of Orthopaedic Surgery, Musculoskeletal Research Center (NIH T32AR060719)

- Post-Doctoral Advisory Committee Member

### **Student Advisement (previous)**

#### **Post Doctoral Fellow in Movement Science**

*Molly Johnson, PhD*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Mentor, January 2010-July 2011; Project Title: Relationships among movement patterns during functional activities and clinical tests in people with and without low back pain

#### **Ph.D. in Kinesiology**

##### Outside University

*Janice Moreside, PT*, Department of Kinesiology, University of Waterloo, Waterloo, Canada

- External Examiner Ph.D. Thesis, July 2010; Dissertation Title: Hip mobility and lumbar spine function

#### **Ph.D. in Psychology**

*Emily Bloesch, BS*, Department of Psychology, Washington University

- External Examiner Ph.D. Thesis, May 2013; Dissertation Title: An investigation into peripersonal space representations in older adults

#### **Ph.D. in Movement Science**

*Kshamata Shah, BS, PT*, December 2013-Present, Program in Physical Therapy, Washington University School of Medicine

- Dissertation Committee Member, Dissertation Title: Diabetes mellitus and impairments of the upper extremity

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### **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

#### **Student Advisement (previous)**

*Ericka Merriweather, DPT*, Program in Physical Therapy, Washington University School of Medicine

(NICHD T32 HD007434)

- Primary Dissertation Committee Member, August 2009-May 2014, Project Title: Foot progression angle in people with diabetes and peripheral neuropathy

*Dustin Hardwick, DPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Dissertation Committee Member, July 2008-March 2010; Dissertation Title: Hemiparetic shoulder pain

*Madeleine Hackney, BS*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Dissertation Committee Member, April 2008-April 2009; Dissertation Title: Alternative movement therapies for Parkinson's Disease

*Sara Scholtes, DPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Mentor, August 2004-July 2009; Dissertation Title: The role of limb movements in chronic, recurrent low back pain
  - Scholarships:
    - APTA, Foundation for Physical Therapy McMillan Scholarship 2004-2005
    - APTA, Foundation for Physical Therapy Doctoral Scholarships 2006-2009

*Justin Beebe, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Dissertation Committee Member, April 2007-December 2008; Dissertation Title: Mechanisms underlying hand function after stroke

*Minna Hong, DPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Dissertation Committee Member, August 2007-December 2007; Dissertation Title: Locomotor deficits in patients with Parkinson's Disease

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Student Advisement (previous)**

#### **Ph.D. in Movement Science**

*Sara Gombatto, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Mentor, August 2002-August 2007; Dissertation Title: Mechanisms contributing to chronic, recurrent low back pain
  - Scholarships: APTA, Foundation for Physical Therapy Doctoral Scholarships 2003-2007

*Donovan Lott, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Dissertation Committee Member, February 2006-May 2007; Dissertation Title: Mechanisms and contributing factors to skin trauma and breakdown in the neuropathic foot

*Joanne Wagner, MSPT, ATC*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Dissertation Committee Member, October 2005-April 2006; Dissertation Title: Upper extremity movement control in people with acute hemiparesis

*Cara Lewis, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Dissertation Committee Member, June 2005-December 2005; Dissertation Title: Effect of movement and muscle activation patterns on anterior hip joint forces and hip pain

*Katrina Maluf, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Mentor, August 1998-May 1999; Project Titles: Modifying lumbar spinal alignment or movement during symptom testing in patients with low back pain: A follow-up study; The use of a classification system to guide nonsurgical management of a patient with LBP
- Dissertation Committee Member, June 2002-December 2002; Dissertation Title: Effect of physical activity on plantar tissue stress: Experimental application of a theoretical model for tissue adaptation & injury

*John Hollman, MSPT*, Program in Physical Therapy, Washington University School of Medicine (NICHD T32 HD007434)

- Primary Dissertation Committee Member, August 1998-December 2000; Dissertation Title: Analysis of intrinsic knee joint surface kinematics: Application of the path of instant centers of rotation

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Student Advisement (previous)**

### **Clinical Science Trainees**

*Michelle Kinney, BS*, Washington University School of Medicine (NCRR TL1 RR024995)

- Primary Mentor, July 2006-September 2006; Project Title: Effect of modifications of hip lateral rotation on symptoms, movement patterns and muscle activity in people with low back pain
  - Scholarship
    - TL1 Pre-Doctoral Scholarship (Summer Program) 2006

*Ruth Porter, BS*, Washington University School of Medicine (NCRR TL1 RR024995)

- Primary Mentor, June 2007-August 2007; Project Title: Movement patterns and activity levels in people with and without low back pain who participated in rotation-related sports
  - Scholarships
    - TL1 Pre-Doctoral Scholarship (Summer Program) 2007
- Primary Research Advisor, June 2009-August 2009, Research Intensive Clinical Rotation, Project Title: Musculoskeletal conditions in professional musicians

*Marcie Harris-Hayes*, Washington University School of Medicine (NCRR KL2 RR024994)

- Primary Mentor, August 2006-May 2010; Project Titles: Reliability of examiners to classify patients with LBP based on the MSI classification system; Development and preliminary testing of examiners to assess adherence to a physical therapy treatment program. Functional differences between two different LBP subgroups

*Maggie Ravenna*, Washington University School of Medicine (NCRR TL1 RR024995)

- Primary Mentor, June 2009-May 2010; Project Title: Anterior shear findings in people with flexion-related low back pain.
  - Scholarship
    - TL1 Pre-Doctoral Scholarship (Intensive Program) 2009-2010

*Stephanie Sandvick*, Washington University School of Medicine (NCRR TL1 RR024995)

- Primary Mentor, June 2012-May 2013, Project Title: Mechanical impairments and outcomes in people with LBP
  - Scholarships
    - TL1 Pre-Doctoral Scholarship (Intensive Program) 2012-2013

### **Research Scholars – International (previous)**

*Hiroshige Tateuchi*, MSPT, Visiting Researcher, Physical Therapist, Assistant Professor, Department of Physical Therapy, School of Health Sciences, Faculty of Medicine, Kyoto University, Kyoto, Japan

- Primary Mentor, February 2009-April 2009; Project Title: Pattern of movement with return from forward bend in 2 LBP subgroups

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### **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

#### **Research Scholars – International (previous)**

*Marco Boschi, BSPT*, Visiting Researcher, Physical Therapist, Department of Physical Therapy,

University of Bologna, Bologna, Italy

- Primary Mentor, January 2009-May 2009; Project Title: Pattern of movement with hip medial rotation in 2 LBP subgroups

*Roberto Meroni, BSPT*, Visiting Researcher, Motion Analysis Laboratory, Department of Clinical Medicine and Prevention, University of Milan Bicocca, Milan, Italy

- Primary Mentor, March 2008-May 2008; Project Title: Lumbopelvic movements and symptom behavior with a test performed in quadruped: People with and without low back pain

### **Faculty Career Development Trainee**

*Marcie Harris-Hayes*, K-12, Fellow, Comprehensive Opportunities in Rehabilitation Research Training, Program in Physical Therapy, Washington University School of Medicine; (NICHD/NINDS K12 HD055931)

- Advisory Committee Member, September 2008-2011; Project Title: Intra-articular hip disease

### Outside University

*Joanne Wagner*, September 2008-August 2013, Fellow, K12 Comprehensive Opportunities in Rehabilitation Research Training Trainee, Program in Physical Therapy, Washington University School of Medicine (NICHD K12 HD055931)

- Primary Mentor, Project Title: Prediction of ambulation and disability in adults with multiple sclerosis using instrumented measures of lower extremity impairment
  - Grant: National Multiple Sclerosis Society Pilot Research Grant, 2013-2014
    - Project Title: Neuropathogenesis of impairments in bilateral coordination of gait in persons with Multiple Sclerosis

### **Post-Professional Clinical Doctorate in Physical Therapy**

*Lynette Khoo-Summers*, Program in Physical Therapy, Washington University School of Medicine  
Independent Study Mentor, January 2008-December 2008; Project Title: Musculoskeletal contributions to turn out in first position in college-level ballet dancers

*Brigitte Cutler*, Program in Physical Therapy, Washington University School of Medicine

- Primary Capstone Mentor, January 2007-December 2007; Project Title: The use of unweighting techniques in a patient with lumbar rotation with extension syndrome

*Pamela Wendl*, Program in Physical Therapy, Washington University School of Medicine

- Independent Study Mentor, June 2006-August 2006; Project Title: Outcomes used in LBP

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### **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

#### **Student Advisement (previous)**

## **Post-Professional Clinical Doctorate in Physical Therapy**

*Renee Ivens*, Program in Physical Therapy, Washington University School of Medicine

- Independent Study Mentor, January 2005-December 2005; Project Title: Characteristics of people with low back pain who do not fully respond to modifications of alignment and movement during a clinical examination

*Teresa Spitznagle*, Program in Physical Therapy, Washington University School of Medicine

- Independent Study Mentor, January 2004-August 2004; January 2006-May 2006; Project Title: Diastasis recti abdominis in a urogynecological patient population

*Cheryl Caldwell*, Program in Physical Therapy, Washington University School of Medicine

- Primary Capstone Mentor, September 2002-December 2002; Capstone Project Title: Medical and physical therapy diagnosis of shoulder impingement syndrome

*Marcie Harris-Hayes*, Program in Physical Therapy, Washington University School of Medicine

- Independent Study Mentor, September 2002-May 2003; Project Title: Classification, treatment and outcomes of a patient with lumbar extension syndrome

*Mary Kate McDonnell*, Program in Physical Therapy, Washington University School of Medicine

- Primary Capstone Mentor, September 2002-May 2003; Project Title: Use of a specific exercise program and modification of postural alignment in the treatment of a patient with cervicogenic headache

## **Professional Clinical Doctorate in Physical Therapy**

*Tom Susco*, Program in Physical Therapy, Washington University School of Medicine

- Independent Study Mentor, July 2004-December 2004; Project Titles: The immediate effect of passive scapular elevation on active cervical rotation range of motion and symptoms in patients with neck pain; Passive hip rotation measures in people with and without low back pain who participate in rotation-related sports activities

## **Post-Professional Clinical Doctorate in Occupational Therapy**

*Bethany Taylor*, Program in Occupational Therapy, Washington University School of Medicine

- Committee Member Capstone Project, November 2005-May 2007; Project Title: The relationship between job satisfaction, control, social support at work and hand symptoms in carpal tunnel syndrome

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Student Advisement (previous)**

## **Master's in Science**

*Sanford Olevitch*, Program in Occupational Therapy, Washington University School of Medicine

- Master's Thesis Primary Committee Member, July 1998-December 1998; Thesis Title: Effects of the perceived work environment on return to work outcomes of LBP patients

## **Professional Master's in Physical Therapy**

*Marc Haro*, February 2002-December 2002

*Rani Linarelli*, February 2001-May 2001

*Elena Zelkowitz*, January 2000-May 2000; August 2000-December 2000

*Jill Taylor*, January 2000-May 2000

*Katherine Ballmann*, January 1999-May 1999; September 1999-December 1999

*Matt Luzinski*, August 1999-December 1999

*Stephanie Griffith*, January 1998-May 1998

## **Undergraduate**

*Alissa Hartmann*, August 1995-May 1996

*Laura Jones*, January 1995-May 1995

*Ayala Weiner*, August 1995-December 1995

*Elizabeth Jokerst*, August 1994-May 1995

## **Workshops/Educational Courses Organized**

"Diagnosis and Treatment of Muscle Imbalances Associated with Musculoskeletal Pain": Level II or Level III Workshop (Shirley Sahrman, Ph.D., P.T.; Nancy Woolsey, M.S.O.T., P.T.; Linda Van Dillen, M.H.S., P.T.)

Co-presenter (Lecture/Demonstration format: 16 hours; Responsible for 8 hours of content)

Program in Physical Therapy, Washington University School of Medicine

January 1987/1989/1990/1991; July 1990; April 1991

"Diagnosis and Treatment of Muscle Imbalances Associated with Musculoskeletal Pain": Level I Workshop

Co-presenter (Lecture/Demonstration format: 8 hours; Responsible for 4 hours of content)

1988 Minnesota State Chapter Physical Therapy Meeting, Duluth, MN

April 1988

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## **TEACHING TITLE AND RESPONSIBILITIES: (cont'd)**

### **Workshops/Educational Courses Organized**

"Diagnosis and Treatment of Muscle Imbalances Associated with Musculoskeletal Pain": Level II

Workshop

Co-presenter (Lecture/Demonstration format: 16 hours; Responsible for 8 hours of content)

Bozeman Physical Therapy, Inc., Bozeman, MT

July 1988

“Identification of Movement System Impairment Syndromes of the Lumbar Spine: Examination and Classification”

Presenter (Lecture/Demonstration format: 3 hours of content)

UAW-Ford Rehabilitation Team Annual Meeting, Detroit, MI

Physical Medicine and Rehabilitation Department, Johns Hopkins Medical School

November 2005

## **BIBLIOGRAPHY:**

### **Peer Review Manuscripts - Published/In Press/Accepted**

1. Henry SM, **Van Dillen LR**, Ouellette-Morton RH, Hitt JR, Lomond KV, DeSarno MJ, Bunn, JY. Short-term outcomes are not different for patient-matched vs. non-matched treatment in subjects with chronic, recurrent low back pain. *The Spine Journal* 2014; doi: 10.1016/J.Spinee.2014.030.024.
2. Kremer TR, Naismith RT, **Van Dillen LR**, Wagner JM. A dynamometer-based measure of spasticity confirms a limited association between plantarflexor spasticity and walking function in persons with multiple sclerosis. Accepted *Journal of Rehabilitation Research and Development*.
3. Wagner JM, Kremer TR, **Van Dillen LR**, Naismith RT. Plantarflexor weakness negatively impacts walking in person with multiple sclerosis more than plantarflexor spasticity. *Archives of Physical Medicine and Rehabilitation* 2014; doi:10.1016/j.apmr.2014.01.030.
4. Kremer TR, Naismith RT, **Van Dillen LR**, Wagner JM, A dynamometer-based measure of spasticity confirms a limited association between plantarflexor spasticity and walking function in persons with multiple sclerosis. Accepted *Journal of Rehabilitation Research and Development*.
5. Scholtes SA, Norton BJ, Gombatto SP, **Van Dillen LR**. Variables associated with performance of an active limb movement following within-session instruction in people with and people without low back pain. *Biomedical Research International* 2013; doi: 10.1155/2013/867983.
6. Rho M, Spitznagle TM, **Van Dillen LR**, Maheswari V, Oza S, Prather H. Gender differences in ultrasound imaging of lateral abdominal muscle thickness in asymptomatic adults: A pilot study. *Physical Medicine and Rehabilitation* 2013; 5(5):374-380.

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## **BIBLIOGRAPHY: (cont'd)**

### **Peer Review Manuscripts - Published/In Press/Accepted**

7. Chimenti RL, **Van Dillen LR**, Prather H, Hunt D, Chimenti P, Khoo-Summers L. Underutilization of worker's compensation insurance among professional orchestral musicians.



*Medical Problems in Performing Artists* 2013; 28(1):54-60.

8. Wagner JM, Norris RA, **Van Dillen LR**, Rauchway AC, Thomas FP, Crosse AH, Naismith RT. The four step square test in ambulant persons with multiple sclerosis. Accepted *International Journal of Rehabilitation Research* 2013; doi:10.1097/MRR.0b013e32835fd97f.
9. Chimenti RL, Scholtes SA, **Van Dillen LR**. Activity level and movement patterns in people with and people without chronic or recurrent low back pain who participate in rotation-related sports. *Journal of Sport Rehabilitation* 2013; 22:161-169.
10. Gombatto SP, Norton BJ, Sahrman SA, Strube MJ, **Van Dillen LR**. Factors contributing to lumbar region passive tissue characteristics in people with and people without low back pain. *Clinical Biomechanics* 2013; 28(3):255-261.
11. Azevedo DC, Lauria AC, Pereira AR, Andrade GT, Ferreira ML, Ferreira PH, **Van Dillen LR**. Intraexaminer and interexaminer reliability of pressure biofeedback unit for assessing Lumbopelvic stability during 6 lower limb movement tests. *Journal of Manual and Manipulative Therapeutics* 2013; 36(1):33-43.
12. Henry SM, **Van Dillen LR**, Trombley AL, Dee JM, Bunn JY. Reliability of novice raters in using the movement system impairment approach to classify people with low back pain. *Manual Therapy* 2013; 18(1):31-40.
13. Khoo-Summers LC, Hunt DM, Prather H, **Van Dillen LR**. Predictors of first position turnout in dancers: The role of tibiofemoral external rotation and hip external rotation. *American Journal of Physical Medicine and Rehabilitation* 2013; 92(2):136-142.
14. Sharma N, Brooks W, Popescu A, **Van Dillen LR**, George S, McCarson K, Gajewski B, Gorman P, Cirstea C. Neurochemical analysis in primary motor cortex in chronic low back pain. *Brain Sciences* 2012; 2(3):319-331.
15. Graci, V, **Van Dillen LR**, Salsich GB. Gender differences in trunk, pelvic and lower limb kinematics during a single leg squat. *Posture and Gait* 2012; 36(3):461-466.
16. Delitto A, George SZ, **Van Dillen LR**, Whitman JM, Sowa G, Shelelle P, Denninger TR, Godges JJ. Low back pain: Clinical practice guidelines linked to the International Classification of Functioning, Disability, and Health. *Journal of Orthopedic and Sports Physical Therapy* 2012; 42(4):A1-A57.

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## **BIBLIOGRAPHY: (cont'd)**

### **Peer Review Manuscripts - Published/In Press/Accepted**

17. Hoffman SL, Johnson MB, Zou D, **Van Dillen LR**. Differences in end-range lumbar flexion during slumped sitting and forward bending between low back pain subgroups and genders. *Manual Therapy* 2012; 17(2):157-163.

18. Prather H, **Van Dillen LR**, Kymes S, Armbrrecht MA, Stwalley D, Clohisy JC. Impact of co-existent lumbar spine disorders on clinical outcomes and physician charges associated with total hip arthroplasty. *The Spine Journal* 2012; 12(5):363-369.
19. Hoffman SL, Johnson MB, Zou D, **Van Dillen LR**. Gender differences in modifying lumbopelvic motion during hip medial rotation in people with chronic low back pain. *Journal of Rehabilitation Research and Practice* 2012; doi:10.1155/2012/635312.
20. 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 symptoms in people with chronic low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2012; 42(2):105-113.
21. Sharma NK, McCarson K, **Van Dillen LR**, Brooks WM, Khan T, Lentz A, Bani-Ahmed A, Wilson S, Popescu A, Cirstea CM. Primary somatosensory cortex in chronic low back pain - a H-MRS study. *Journal of Pain Research* 2011; 4:143-150.
22. Hoffman SL, Johnson MB, Zou D, **Van Dillen LR**. Sex differences in lumbopelvic movement patterns during hip medial rotation movement in people with chronic low back pain. *Archives of Physical Medicine and Rehabilitation* 2011; 92(7):1053-1059.
23. 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* 2011; 16(4):344-350.
24. Ravenna MM, Hoffman SL, **Van Dillen LR**. Low inter-rater reliability of examiners performing the Prone Instability Test: A clinical test for lumbar shear instability. *Archives of Physical Medicine and Rehabilitation*. 2011; 92(6):913-919.
25. 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: Preliminary findings. *Physical Medicine and Rehabilitation* 2010; 2(12):1113-1118.
26. Harris-Hayes M, Holtzman GW, Early J, **Van Dillen LR**. Development and preliminary reliability testing of physical therapists to assess a patient's independence in performing a treatment program: Standardized patient scenarios. *Journal of Rehabilitation Medicine* 2010; 42(3):221-227.

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### **Peer Review Manuscripts - Published/In Press/Accepted**

27. Scholtes SA, Norton BJ, Lang CA, **Van Dillen LR**. The effect of within-session instruction on lumbopelvic motion during hip lateral rotation in people with and people without low back pain. *Manual Therapy* 2010; 15(5):496-501.

28. Harris-Hayes M, Sahrmann SA, **Van Dillen LR**. Relationship between the hip and low back pain in athletes who participate in rotation-related sports. *Journal of Sports Rehabilitation* 2009; 18(1):60-75.
29. Harris-Hayes M, **Van Dillen LR**. The inter-tester reliability of physical therapists classifying low back pain problems based on the Movement System Impairment Classification system. *Physical Medicine and Rehabilitation* 2009; 1(2):117-126.
30. Scholtes SA, Gombatto SP, **Van Dillen LR**. Differences in lumbopelvic motion between people with and people without low back pain during two lower limb movement tests. *Clinical Biomechanics* 2009; 24(1):7-12.
31. **Van Dillen LR**, Maluf KS, Sahrmann SA. Further examination of modifying patient-preferred movement and alignment strategies in patients with low back pain during symptomatic tests. *Manual Therapy* 2009; 14(1):52-60.
32. Gombatto SP, Norton BJ, Scholtes SA, **Van Dillen LR**. Differences in symmetry of lumbar region passive tissue characteristics between people with and people without low back pain. *Clinical Biomechanics* 2008; 23(8):986-995.
33. Gombatto SP, Klaesner JW, Norton BJ, Minor SD, **Van Dillen LR**. Validity and reliability of a system to measure passive stiffness and end range of motion of the lumbar region during trunk lateral bending in vivo. *Journal of Rehabilitation Research and Development* 2008; 45(9):1415-1429.
34. Andrade GT, Azevedo DC, Lorentz IA, Galo RS, Pinto VS, Tardin T, McDonnell MK, **Van Dillen LR**. Influence of scapular position on cervical rotation range of motion. *Journal of Orthopedic and Sports Physical Therapy* 2008; 38(11):668-673.
35. Taylor BS, Dale AM, **Van Dillen LR**, Franzblau A, Evanoff BA. Predictors of upper extremity symptoms and functional impairment among workers employed for 6 months in a new job. *American Journal of Industrial Medicine* 2008; 51(12):932-940.
36. **Van Dillen LR**, Bloom NJ, Gombatto SP, Susco TM. Hip rotation range of motion in people with and without low back pain who participate in a rotation-related sport. *Physical Therapy in Sport* 2008; 9(2):72-81.

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### **Peer Review Manuscripts - Published/In Press/Accepted**

37. Scholtes SA, **Van Dillen LR**. Gender-related differences in the prevalence of lumbar region movement impairments in people with low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2007; 37(12):744-753.
38. **Van Dillen LR**, Susco TM, Sahrmann SA, McDonnell MK. The immediate effect of passive

scapular elevation on symptoms with active neck rotation in patients with neck pain. *Clinical Journal of Pain* 2007; 23(8):641-647.

39. Harris Hayes M, Wendl PM, Sahrman SA, **Van Dillen LR**. Does tibiofemoral joint motion contribute to measurements of passive hip rotation motion in unimpaired individuals? *Physiotherapy Theory and Practice* 2007; 23(6):315-323.
40. Caldwell CA, Sahrman SA, **Van Dillen LR**. Use of a movement-system impairment diagnosis for physical therapy in the examination, treatment and outcomes of a patient with shoulder pain. *Journal of Orthopedic and Sports Physical Therapy* 2007; 37(9):551-563.
41. **Van Dillen LR**, Gombatto SP, Collins DR, Engsborg JR, Sahrman SA. Symmetry of timing of hip and lumbopelvic rotation motion in two different subgroups of people with low back pain. *Archives of Physical Medicine and Rehabilitation* 2007; 88(3):351-360.
42. Gombatto SP, Collins DR, Engsborg JR, Sahrman SA, **Van Dillen LR**. Patterns of lumbar region movement during trunk lateral bending in two different subgroups of people with low back pain. *Physical Therapy* 2007; 87(4):441-454.
43. Spitznagle TM, Leong FC, **Van Dillen LR**. Prevalence of diastasis recti abdominis in a urogynecological patient population. *International Urogynecology Journal* 2007; 18(3):321-328.
44. Prather H, **Van Dillen LR**, Metzler JP, Riew KD, Gilula LA. Prospective measurement of function and pain in patients with non-neoplastic compression fractures treated with vertebroplasty. *Journal of Bone and Joint Surgery* 2006; 88(2):334-341.
45. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Caldwell CA, Bloom NJ. Trunk rotation-related impairments in people with low back pain who participate in two different types of leisure activities. *Journal of Orthopedic and Sports Physical Therapy* 2006; 36(2):58-71.
46. Gombatto SP, Collins DR, Sahrman SA, Engsborg JR, **Van Dillen LR**. Gender differences in pattern of hip and lumbopelvic rotation in people with low back pain. *Clinical Biomechanics* 2006; 21(3):263-271.
47. Harris MH, Sahrman SA, **Van Dillen LR**. Classification, treatment and outcomes of a patient with lumbar extension syndrome. *Physiotherapy Theory and Practice* 2005; 21(3):181-196.

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### **Peer Review Manuscripts - Published/In Press/Accepted**

48. McDonnell MK, Sahrman SA, **Van Dillen LR**. A specific exercise program and modification of postural alignment for treatment of cervicogenic headache: A case report. *Journal of Orthopedic and Sports Physical Therapy* 2005; 35(1):3-15.
49. **Van Dillen LR**, Wagner JM, Sahrman SA. Classification, intervention and outcomes of a patient with lumbar rotation with flexion syndrome. *Physical Therapy* 2005; 85(4):336-351.

50. Norton BJ, Sahrman SA, **Van Dillen LR**. Differences in measurements of lumbar curvature related to gender and low back pain category. *Journal of Orthopedic and Sports Physical Therapy* 2004; 34(9):524-533.
51. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Fleming DA, Caldwell CA, Woolsey NB. The effect of modifying patient-preferred spinal movement or alignment during symptom testing in patients with low back pain: A preliminary report. *Archives of Physical Medicine and Rehabilitation* 2003; 84(3):313-322.
52. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Fleming DA, Caldwell CA, Bloom NJ. Movement system impairment-based categories for low back pain: Stage I validation. *Journal of Orthopedic and Sports Physical Therapy* 2003; 33(3):126-142.
53. Hollman JH, Deusinger RH, **Van Dillen LR**, Matava MJ. Gender differences in surface rolling and gliding kinematics of the knee. *Clinical Orthopedics & Related Research* 2003; 413:208-221.
54. Hollman JH, Deusinger RH, **Van Dillen LR**, Zou D, Minor SD, Matava MJ, Engsborg JR. Tibiofemoral joint surface rolling and gliding motions differ between weightbearing and non-weightbearing movement conditions. *Journal of Sports Rehabilitation* 2003; 12(2):143-161.
55. Hollman JH, Deusinger RH, **Van Dillen LR**, Zou D, Minor SD, Engsborg JR, Matava MJ. Knee joint movements in subjects without knee pathology and subjects with injured anterior cruciate ligaments. *Physical Therapy* 2002; 82(10):960-972.
56. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Fleming DA, Caldwell CA, Woolsey NB. The effect of active limb movements on symptoms in patients with low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2001; 31(8):402-413.
57. **Van Dillen LR**, McDonnell MK, Fleming DA, Sahrman SA. The effect of hip and knee position on hip extension range of motion measures in individuals with and without low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2000; 30(6):307-316.
58. Maluf KS, Sahrman SA, **Van Dillen LR**. Use of a classification system to guide nonsurgical management of a patient with chronic low back pain. *Physical Therapy* 2000; 80(11):1097-1111.

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### **Peer Review Publications**

59. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Fleming DA, Caldwell CA, Woolsey NB. Reliability of physical examination items used for classification of patients with low back pain. *Physical Therapy* 1998; 78(9):979-988.
60. **Van Dillen LR**, Roach KE. Interrater reliability of a clinical scale of rigidity. *Physical Therapy* 1988; 68(11):1679-1681.

61. Roach KE, **Van Dillen LR**. Development of an Acute Care Index of Functional status for patients with neurologic impairment. *Physical Therapy* 1988; 68(7):1102-1108.
62. **Van Dillen LR**, Roach KE. Reliability and validity of an Acute Care Index of Function. *Physical Therapy* 1988; 68(7):1098-1101.

#### **Non Peer Review Publications**

1. Maluf KS, Sahrman SA, **Van Dillen LR**. Authors' response to letter to the editor. *Physical Therapy* 2001; 81(5):1148-1151.
2. **Van Dillen LR**, Maluf KS, Sahrman SA. Authors' response to letter to the editor. *Physical Therapy* 2001; 81(5):1153-1154.
3. **Van Dillen LR**, Sahrman SA, Norton BJ, McDonnell MK, Fleming DA, Caldwell CA, Woolsey NB. Response to invited commentary. *Journal of Orthopedic and Sports Physical Therapy* 2001; 31(8):416-418.
4. **Van Dillen LR**, McDonnell MK, Fleming DA, Sahrman SA. Authors' response to letter to the editor. *Journal of Orthopedic and Sports Physical Therapy* 2000; 30(11):707-708.

#### **Invited Publications - Book Chapters**

1. Abrams RA, **Van Dillen LR**, Stemmons VS. Multiple sources of spatial information for aimed limb movements. In Umilta C, Moscovitch M (eds): *Attention and Performance XV*. Cambridge, MA: MIT Press, 1993; 267-290.
2. **Van Dillen LR**, Roach KE. Analysis of movement dysfunction and physical disability - Activities of daily living. In Scully RM, Barnes MR (eds): *Physical Therapy*. Philadelphia, PA: Lippincott Co., 1987; 629-643.
3. **Van Dillen LR**, Sahrman SA, Norton BJ. Kinesiopathologic Model and Low Back Pain. In Hodges PW, Cholewicki J, van Dieen JH and Herbert R (eds): *Spinal Control: The Rehabilitation of Back Pain*. Edinburgh, Scotland: Elsevier Churchill Livingstone, 2012; 89-98.

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#### **BIBLIOGRAPHY: (cont'd)**

#### **Invited Publications - Book Chapters**

4. **Van Dillen LR**, van Tulder M. Targeting Interventions to Patients: Development and Evaluation. In Hodges PW, Cholewicki J, van Dieen JH and Herbert R (eds): *Spinal Control: The Rehabilitation of Back Pain*. Edinburgh, Scotland: Elsevier Churchill Livingstone, 2012; 195-205.
5. Hodges PW, **Van Dillen LR**, McGill SM, Brumagne S, Hides JM, Moseley GL. Integrated Clinical Approach to Motor Control Interventions in Low Back Pain and Pelvic Pain. In Hodges PW, Cholewicki J, van Dieen JH and Herbert R (eds): *Spinal Control: The Rehabilitation of Back*

*Pain*. Edinburgh, Scotland: Elsevier Churchill Livingstone, 2012; 244-310.

6. Sahrman SA, **Van Dillen LR**.

#### **Abstracts - Published**

1. McLaren KD, Ouellette-Morton R, **Van Dillen LR**, Bunn J, Henry SM. Evaluating independence in exercise performance for patients with low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2014; 44(1):A9.
2. Chenette JL, Henry S, **Van Dillen L**, Ouellette-Morton R, Dee J, Bunn J. A shortened movement system impairment exam for classifying subjects with low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2014; 44(1):A9.
3. Sorensen CJ, Callaghan JP, George SZ, **Van Dillen LR**. Differences in movement patterns during the active hip abduction test in low back pain developers and non low back pain developers. *Journal of Orthopedic and Sports Physical Therapy* 2014; 44(1):A4.
4. Marich AV, Bohall SC, Sorensen CJ, Zou D, **Van Dillen LR**. The relationship between a lumbar movement pattern displayed during a clinical test and a functional activity in people with and people without low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2014; 44(1):A9.
5. Sandvick S, Bohall S, **Van Dillen LR**. Association between rotation-related impairments and repetitive, asymmetric activity in people with and people without low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2014; 44(1):A10.
6. Wagner JM, **Van Dillen LR**, Naismith RT. The occurrence, distribution and severity of lower limb spasticity and its impact on mobility in ambulatory persons with multiple sclerosis. *Journal of Neurologic Physical Therapy* 2014; 38(1):12.
7. 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 Orthopedic and Sports Physical Therapy* 2012; 44(1):A12.

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#### **Abstracts - Published**

8. Prather H, Stephens A, Maheshwari V, **Van Dillen LR**. Hip and lumbar spine physical examination and radiographic findings in consecutive patients presenting with low back pain: A prospective description of the hip-spine syndrome. *The Spine Journal* 2012; 12(9):68S.
9. Sorensen CJ, Johnson MB, George SZ, Callaghan JP, **Van Dillen LR**. The relationship between psychological factors and low back pain symptom intensity during prolonged standing in back-healthy people: A preliminary study. *The Spine Journal* 2012; 12(9):31S-32S.
10. Sorensen CJ, Johnson MB, George SZ, Callaghan J, **Van Dillen LR**. Validity of a model for low

- back pain symptom development during prolonged standing. *Journal of Orthopedic and Sports Physical Therapy* 2012; 42(1):A7.
11. Ravenna MM, Horstmann L, Hoffman SL, **Van Dillen LR**. People with low back pain improved lumbopelvic movement patterns during a clinical exam following classification-based treatment. *Journal of Orthopedic and Sports Physical Therapy* 2012; 42(1):A7.
  12. Prather H, Harris-Hayes M, Hunt D, **Van Dillen LR**, Clohisy JC. Hip range of motion for specific hip disorders: A potentially important parameter to assess in patients with low back pain. *Journal of Orthopedic and Sports Physical Therapy* 2012; 42(1):A9.
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