

## CURRICULUM VITAE

**Date:** June 2023

**Name:** Renee A. Ivens, PT, DPT

### **Contact Information**

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### **Present Position**

2013- present: Associate Professor  
Program in Physical Therapy and Orthopaedic Surgery  
Washington University School of Medicine  
St Louis, Missouri

### **Education**

1984 BS Physical Therapy, Maryville University, St Louis, Missouri

1992 MHS Health Science, Physical Therapy, Washington University, St Louis, Missouri

2006 DPT Physical Therapy, Washington University, St Louis, Missouri

### **Professional Experience:**

1984-1985 Physical Therapist  
Metropolitan Physical Therapy  
St. Louis, Missouri

1985- 1992 Physical Therapist  
Irene Walter Johnson Rehabilitation  
Washington University School of Medicine  
St Louis, Missouri

1986-2002	Lecturer Program in Physical Therapy Washington University School of Medicine St Louis, Missouri
1987-88, 1989-90	Clinical Instructor St Louis University Department of Physical Therapy
1992-1996	Orthopedic Clinical Specialist Barnes-Jewish Hospital St Louis, Missouri
1996-2000	Senior Physical Therapist Barnes-Jewish Hospital St Louis, Missouri
2001-2002	Lead Physical Therapist The Rehabilitation Institute of St Louis St Louis, Missouri
2002-2007	Instructor Program in Physical Therapy Washington University School of Medicine St Louis, Missouri
2007-2013	Assistant Professor Program in Physical Therapy Washington University School of Medicine St Louis, Missouri

### **Clinical Title and Responsibilities**

**Position:** Faculty Mentor, Washington University Physical Therapy Clinic

### **Current Clinical Responsibilities:**

Provide consultation and mentorship to clinical practitioners for patients with a variety of neuro-musculoskeletal problems; specialized focus on spine, shoulder and peripheral nerve injuries.

### **Past Clinical Responsibilities:**

Direct care of patients presenting with neuro-musculoskeletal conditions involving the spine, shoulder, hip, and knee. A special emphasis was placed on pain and movement dysfunction of the shoulder and neck.

## **Teaching Title and Responsibilities**

### **Teaching Responsibilities**

#### **Professional Clinical Doctorate (DPT) Curriculum (WUSM)**

#### **Year 1 Competency Based Curriculum:**

Phase 2: Promoting Health through Movement

Module 4A: Movement and Precision Health

Lecturer

Class size: 97

Module 4B: Movement and Precision Health

Lecturer/Lab Assistant

Class size: 87-97

#### **Year 2 Competency Based Curriculum:**

Coaching (Fall/Spring)

Phase 3: Optimizing Movement

Module 5: Prevention, Diagnosis and Management of Movement Problems

Module team: design, plan and implement musculoskeletal content

Lecturer/Lab Assistant

Class size: 97

Module 6: Prevention, Diagnosis and Management of Complex Movement Problems

Lecturer/Lab Assistant

Class size: 97

#### **Legacy Curriculum:**

Case Integration III (PT 654)

Lecturer/Lab Assistant: 2007-present

Advisor: 2002-2021

Class size: 76-93 students

Credit hours: 3

#### **Clinical Fellowship in Diagnosis and Management of Movement Impairment Syndromes**

Mentorship for on-site fellow and distance fellows on examination and treatment for a wide range of orthopaedic patients. 2011-2021

## Previous Teaching Responsibilities

### Professional Clinical Doctorate (DPT) Curriculum (WUSM)

#### Anatomy (PT 611)

Lecturer 2015-2021  
 Class Size: 84-93  
 Credit hours: 5

#### Kinesiology II (PT 613)

Coursemaster: 2010-2021  
 Unit coordinator/Lecturer: 2008-2021  
 Class Size: 76-93  
 Credit hours: 5

#### Diagnosis & Management of Musculoskeletal Conditions I (PT 614)

Lecture/Lab Assistant: 2002-2021  
 Class Size: 76-93  
 Credit hours: 3

#### Orthopaedic Medicine (PT 623)

Coursemaster: 2007-2021  
 Class Size: 76-94  
 Credit hours: 2

#### Diagnosis & Management of Musculoskeletal Conditions II (PT 624)

Unit co-coordinator/Lecturer/Lab Assistant: 2002-2021  
 Class Size: 76-94  
 Credit hours: 3

#### Essential Clinical Skills II (PT 627)

Lecturer: 2010-2021  
 Lab Assistant: 2002-2021  
 Class Size: 76-94  
 Credit hours: 3

#### Case Integration Lab I (PT 628)

Small Group Advisor 2002-2021  
 Group Size: 6-10  
 Lecturer: 2002-present  
 Class Size: 76-88  
 Credit hour: 1

#### Diagnosis & Management of Musculoskeletal Conditions III (PT 638)

Lecturer/Lab Assistant: 2002-present  
 Unit co-coordinator: 2019-present

Assistant Coursemaster: 2009  
 Class Size: 76-94  
 Credit hours: 3

Diagnosis and Evidence Analysis in PT Practice III (PT 650)

Advisor: 2002-present  
 Students: 1-3 students  
 Credit hours: 3

Case Integration III (PT 654)

Advisor: 2002-present  
 Lecturer/Lab Assistant: 2007-present  
 Class size: 76-88 students  
 Credit hours: 3

Professional Issues and Skill Development II (PT 615) & III (PT 650)

Examiner: 2015- present  
 Students: 4-6 students

Post-Professional Clinical Doctorate (PP DPT) Curriculum

Diagnosis & Management for Musculoskeletal Conditions Upper Quarter (M22-740)

Lecturer/Lab Assistant  
 Class size: 10-20 students  
 Credit hours: 3

Diagnosis & Management for Musculoskeletal Conditions Lower Quarter (M22-750)

Lab Assistant  
 Class size: 10-20 students  
 Credit hours: 3

Women's Health Residency

Lecture/discussion: Movement System Diagnoses for the Shoulder Applied to the Patient with Breast Cancer, 2011-2015

- Instruction in professional curriculum in entry level Masters of Science in Physical Therapy and Post Professional Masters relating to examination and intervention for patients with musculoskeletal impairments, management of orthopaedic conditions, advisement of students and coordination of student elective coursework. 1986-2002

**Professional Clinical Doctorate Occupational Therapy (OTD) Curriculum (WUSM)**

Medical and Mental Health Conditions (OT 5223)

Topic: Orthopaedic Conditions and Musculoskeletal Disorders  
 Lecturer: 2008-2011

## **Trainee/Mentee/Sponsorship Record:**

### Advisor for PPDPT:

Fall 2010	Capstone Project (M22 820), 6 credit hours Becky Miller “Middle, Older, and Advanced Age Women’s Response to High Intensity Resistance Training: A Review of the Literature and Comparison of Three Case Studies”
Spring 2011	Independent Study (M22 500), 3 credit hours Matt Driskill “Physical Therapy for Patients with Venous or Neurogenic Thoracic Outlet Syndrome”
Spring/Summer 2011	Capstone Project (M22 820), 3 credit hours Erica Herron “Axillary Web Syndrome: Treatment options and outcomes for patients with breast cancer”
Spring 2013	Capstone Project (M22 820), 6 credit hours Jennifer Long “Operative and non-operative treatment methods and related outcomes for anterior shoulder instability in young and middle-aged adults”
Fall 2013	Capstone Project (M22 820), 6 credit hours Scott Gregory “Associating scapular kinematics with impingement at the glenohumeral joint”
Spring 2014	Capstone Project (M22 820), 3 credit hours Ben Close “The Contribution of Scapular Alignment & Movement Control to Neck Pain”

## **Development of Teaching Materials for Professional DPT Curriculum**

### Videoclips

Materials used by DPT students to learn skills and clinical decision making used during examination, diagnosis, and treatment. Topics include: joint mobilization of the shoulder, special tests of the shoulder and thoracic spine, and patient cases musculoskeletal problems of the elbow and shoulder.

## **University, School of Medicine and Hospital Appointments and Committees**

### **COMMITTEES:**

#### **Program in Physical Therapy, Washington University School of Medicine**

1998-2009	Admissions Committee
2002-2008	Clinical Practice Advisory Committee
2003-2004	Program Innovation Council
2004-2006	Planning Committee for Orthopaedic Clinical Fellowship in Diagnosis and Management of Movement Impairment Syndromes
2007-2010	Committee on Academic Evaluation of Students (CAES)
2008-2011	International Service Committee
2010-present	Committee on Academic and Professional Evaluation of Students (CAPES)
2011-present	Professional Program Curriculum Committee
2015, 2017	Clinic Associate Search Committee
2016- 2020	Fellowship Curriculum Task Force
2018-2019	Pain Task Force
2018-2020	Technology Curriculum Renewal Consideration Team
2019-2020	Clinical Faculty Search Committee: 2 faculty positions
2021	Clinic Associate interview team
2021- present	Module 5 Build Team, Consultant for Module 4 Build Team, Generation and Control of Movement Thread team member

### **Medical Licensure and Certification**

Missouri Board of Registration for the Healing Arts  
 Registration Number: 01496 1984-present

Credentialed Clinical Instructor 2009-present  
 American Physical Therapy Association (APTA)

## **Honors and Awards**

2013 Helen Mae Bradley Award, Maryville University, St Louis, MO

## **Editorial Responsibilities**

Reviewer:

*Manual Therapy* 2011-present

*Journal of Shoulder and Elbow Surgery* 2015-present

## **Professional Societies and Organizations**

American Physical Therapy Association 1983-present

○ Orthopaedic Section (APTA) 1993-present

○ Oncology Section 2009-2011

Missouri Physical Therapy Association 1983-present

American Society of Shoulder and Elbow Therapists 2010-present

## **Invited Speaker:**

1994 Evaluation and Treatment of Thoracic Outlet Syndrome.  
St. Louis Orthopaedic Special Interest Group  
St. Louis, Missouri

1999 Determining Prognosis and Establishing Appropriate Goals for Patients  
with Fibromyalgia  
Washington University Program in Physical Therapy Alumni Day  
St. Louis, Missouri

2000 Muscle and Movement Imbalance - Diagnosis and Treatment  
Southern Illinois Chapter IPTA, Special Interest Group  
Belleville, IL

2002 Diagnosis and Treatment of Movement Impairment Syndromes: Lower  
Quarter  
Alaskan Physical Therapy Association Fall Meeting  
Fairbanks, Alaska

2005 Carpal Tunnel Syndrome: A PT Perspective  
Washington University Resident Training Series  
St. Louis, Missouri



- 2005 Thoracic Outlet Syndrome  
Eastern District MPTA  
St. Louis, Missouri
- 2006 Rehabilitation Exercises for Scapular Muscles  
The 1<sup>st</sup> Annual CASE (Center for Athlete's Shoulder and Elbow) Shoulder  
& Elbow Conference  
The Orthopaedic Center of St Louis  
St. Louis, Missouri
- 2007 Evaluation of Scapular Movement  
CASE (Center for Athlete's Shoulder and Elbow) Baseball Medicine  
Conference  
St. Louis, Missouri
- 2008 Scapular Movement Impairments  
Annual National Baseball Team Medicine Conference: Injury Prevention  
& Treatment Techniques  
Sponsored by Major League Baseball  
St Louis, Missouri
- 2011 Breast Cancer Rehabilitation for the Non-Women's Health Practitioner  
Eastern District MPTA  
St. Louis, Missouri
- 2011 Diagnosis and Treatment of Movement Impairment Syndromes  
8<sup>th</sup> Annual Kim Hale Memorial Conference for Therapeutic Excellence  
San Angelo, Texas
- 2011 Physical Therapy for the Patient with Cervical Pain  
Washington University Physical Medicine and Rehabilitation Education  
St. Louis, Missouri
- 2012 Scapular and glenohumeral movement faults associated with breast cancer  
treatment  
Midwest Therapist Study Group  
Chesterfield, Missouri
- 2013 The Shoulder: Relating the Movement Impairments to the Diagnosis.  
MPTA Spring Conference  
St Louis, Missouri
- 2014 Treatment of Musculoskeletal Shoulder Pain - Three Evidence Based  
Approaches  
Illinois Physical Therapy Association  
Urbana, IL

- 2015            Physical Therapy for Cervical Spine  
Washington University Physical Medicine and Rehabilitation Education  
St. Louis, Missouri
- 2016            Upper Extremity Exercises- Does One Size Fit All?  
Washington University Program in Physical Therapy Clinical Instructors'  
Meeting  
St. Louis, Missouri
- 2020            Shoulder Examination/Dyskinesia  
Washington University Dept of Orthopedics CME  
St. Louis, Missouri
- 2021            An Update on the Shoulder  
Washington University Program in Physical Therapy Alumni MSI Update  
St. Louis, Missouri

### **Research:**

Co-investigator

Protocol title: "Reliability and validity of visual assessment of shoulder biomechanic biomechanics using fluoroscopic imaging."

Principle Investigator: Paula M. Ludewig, Division of Physical Therapy/Department of Rehabilitation Medicine, University of Minnesota.

### **Consulting Relationships and Advisory Panels**

2001-present    Physical Therapy Program, Maryville University

2007            Toyota Corporation Therapy Department

Provided education for Toyota (S. Indiana plant) Medical staff through in-service and direct observation of patient care

### **Bibliography:**

#### PEER REVIEWED SCIENTIFIC AND PROFESSIONAL PRESENTATIONS:

- 1994            Evaluation and Management of Nerve Compression in the Upper  
Extremity in Cumulative Trauma Disorders  
Joint Congress of the APTA and CPTA  
Toronto, Canada
- 2005            Concentrated Education Series: Movement System Impairment - Shoulder  
APTA Annual Conference & Exposition  
Boston, MA

- 2010            Movement System Impairment Diagnoses Applied to the Breast Cancer Patient  
 APTA Combined Sections Meeting  
 San Diego, CA
- 2014            Exercise Prescription for Shoulder Problems: Moving Away From a "One Size Fits All"  
 APTA Combined Sections Meeting  
 Las Vegas, NV
- 2015            Exercise Prescription for Shoulder Problems  
 MPTA Spring Conference  
 St Louis, Missouri
- 2015            An Introduction to the Humeral Movement System Impairment Diagnoses  
 American Society of Shoulder and Elbow Therapists Annual Meeting  
 Asheville, NC
- 2018            Do You See a Pattern? Link the Movement Faults Across Your Exam  
 NEXT APTA Conference  
 Orlando, Florida
- 2019            The Hallmark of a Movement System Expert: Pattern Recognition  
 MPTA Fall Conference  
 St Louis, MO

### **Platform Presentations**

- 1993            Changes in the Infrasternal Angle with Abdominal Contractions  
 APTA Annual Conference  
 Washington, DC
- 2013            Treatment of Multidirectional Shoulder Instability Guided by a Movement System Diagnosis  
 American Society of Shoulder and Elbow Therapists Annual Meeting  
 Las Vegas, NV
- 2015            Beers A, **Ivens R**, Kahn LC, Fox I. The Use of Donor Activation as the Guiding Rehabilitation Strategy Following Multiple Nerve Transfer Surgeries: A Case Report.  
 APTA Combined Sections Meeting  
 Indianapolis, IN
- 2018            **Ivens R**. Humeral Superior Glide Syndrome: Case reports describing 2 patients with different contributing factors associated with humeral superior glide.

- American Society of Shoulder and Elbow Therapists Annual Meeting  
Chicago, IL
- 2022      **Ivens RA**, Harris-Hayes M, Lawrence RL. The impact of altering scapular kinematics on the proximity between the rotator cuff footprint and the glenoid.  
American Society of Shoulder and Elbow Therapists Annual Meeting  
Atlanta, GA
- 2023      Lawrence RL, **Ivens RA**, Harris-Hayes M. The effect of scapular kinematics on mechanisms of rotator cuff injury: internal impingement.  
APTA Combined Sections Meeting  
San Diego, CA
- 2023      Lawrence RL, **Ivens RA**, Harris-Hayes M. The effect of scapular kinematics on mechanisms of rotator cuff injury: subacromial impingement.  
APTA Combined Sections Meeting  
San Diego, CA

**PUBLICATIONS: (Ivens RA = Zoeller RA)**

**Papers**

Brown JM, Yee A, **Ivens RA**, Dribben W, Mackinnon SE. Post-Cervical Decompression Parsonage-Turner Syndrome Represents a Subset of C5 Palsy: 6 Cases and Review of the Literature. *Neurosurgery*. 2010;67(6).

**Invited Publications:**

Book Chapters

Spitznagle TS, **Ivens RA**. Movement Impairment Syndromes of the Thoracic Spine in *Movement System Impairment Syndromes in the Extremities, Cervical and Thoracic Spines*. Sahrman S. Mosby, Inc. St Louis, MO; 2010.

**Ivens RA**, Moore AM. Thoracic Outlet Syndrome in *Nerve Surgery 2<sup>nd</sup> ed*. Mackinnon SM. Theime. New York, NY. Pending publication

**Abstracts**

**Zoeller R**, Barbee J, Rose SJ, Wright-Hinzpeter C. A Goniometric Comparison of Prone and Sitting Hip Rotation. *Physical Therapy*. 1987;67(5).

Barbee J, Wright Hinzpeter C, Rose SJ, **Zoeller R**. Reliability of an inclinometer for hip rotation measurement. *Physical Therapy*. 1987;67(5).

Wright Hinzpeter C, **Zoeller R**, Rose SJ, Barbee J. Reliability of goniometry in measuring hip rotation. *Physical Therapy*. 1987;67(5).

**Zoeller RA**, Sahrman SA. The Effect of Patient Position on Active and Passive Range of Medial Rotation of the Humerus. *Physical Therapy*. 1988;68(5).

**Zoeller RA**, Sahrman SA. Comparison of Methods for Assessing Humeral Flexion and Associated Scapular Motion. *Physical Therapy*. 1989;69(5).

**Zoeller RA**. Reliability of Diagnostic Resisted Movements at the Shoulder. *Proceedings of the 1990 APTA Conference*.

Duffin L, **Zoeller R**. Reliability and Comparison of Two Goniometric Measures of the Wrist. *Proceedings of the 1991 APTA Conference*.

Caldwell C, Smith LW, Stemmons VA, **Zoeller RA**, Norton BJ. Reliability of a Method for Measurement of Scapulohumeral Rhythm in Normals. *Proceedings of the 1991 APTA Conference*.

**Zoeller RA**, Caldwell C, Norton BJ. Reliability of Measuring the Infrasternal Angle. *Physical Therapy*. 1992;72(6, Suppl).

**Ivens R**, Caldwell CA, Norton BJ. Incidence of Scapular Movement Impairments and Effect on Symptoms. APTA Combined Sections Meeting 2009.

Beers A, **Ivens R**, Kahn LC, Mackinnon SE. Functional Outcomes Following Nerve Transfer Surgery for a C5-C7 Brachial Plexus Palsy are Improved with DAFRA Rehabilitation Technique. *Proceedings of the 2015 AAHS Annual Meeting*.

Saini G, Caldwell C, **Ivens R**, Sahrman S, Ludewig PM. Shoulder Movement Assessment Using Single Plane Fluoroscopy: Reliability and the Influence of Prevalence and Bias. APTA Combined Sections Meeting 2022.

### **Continuing Education Programs Provided:**

1990-present    Diagnosis and Treatment of Movement System Impairment Syndromes. Presentation and organization of several continuing education courses for physical therapists. Courses are offered at different levels: Introductory Level, Advanced Upper Quarter, Advanced Lower Quarter and Advanced Lab Course with focus on Upper or Lower Quarter. An average of 1-2 courses per year at national and international venues.

1994             Posture Management Exhibit  
Nerve Compression Syndromes  
Practical Anatomy and Surgical Technique Workshop

- 2008            Impingement & Rotator Cuff: Injury, Surgery & Rehab  
 Saint Louis Orthopaedic Evening Series  
 International Spine & Pain Institute  
 St Louis, Missouri
- 2010            Thoracic Outlet Syndrome  
 Saint Louis Orthopaedic Evening Series  
 International Spine & Pain Institute  
 St Louis, Missouri
- Thoracic Outlet Syndrome  
 Kansas City Orthopaedic Evening Series  
 International Spine & Pain Institute  
 Kansas City, Missouri
- 2014            Annual Orthopedic Section Meeting  
 Lab Assistant: Integration of Shoulder Biomechanics and Movement  
 Classifications in Shoulder Rehabilitation  
 St Louis, Missouri

#### Conferences Attended

##### APTA

Combined Sections Conference  
 2008-2020, 2022 attended virtually, 2023

National Annual Conference  
 1987-1994, 2005, 2018

Missouri State Conferences  
 1985, 2013

American Society of Shoulder and Elbow Therapists (ASSET) 2013, 2015, 2018, 2022

#### **Community Service Contributions**

##### Presentations

- 1992, 1993            Exercise through the Middle Years  
 Women and Infant Services, Barnes-Jewish Hospital
- 2005                    St. Louis Acoustic Neuroma Association  
 Support Group Presentation
- 2005                    Exercise after Head and Neck Cancer  
 Midwest Laryngectomy Conference

2007 Superheroes and Super Bodies  
Lunch and Learn Series  
St Louis Science Center

Other Activities Associated with Washington University Program in Physical Therapy

1996 Festival of the Ages

1997 Machinist Health Fair

1997 Southwestern Bell Health Fair

1999 Washington University School of Medicine Benefits Fair

2003 Washington University School of Medicine Employee Health Fair  
Screening

2007, 2011 Washington University School of Medicine  
Health Professions Fair, Office of Diversity

2008, 2016 Maritz Health Fair – Ask the Doctor

2009 Schnucks Health Fair - Ask the Doctor

2012 Washington University School of Medicine Health Happening, Ask the  
Expert

2016, 2017,  
2020, 2021 Annual Volunteer Day- Washington University Physical Therapy

Other Activities

1994-1997 St Louis Zoo Friends

1999 Southwestern Illinois Special Olympics Volunteer

2003-2008 Sister Cities Organization

2003-2006, Susan G. Komen Race for the Cure  
2008, 2009, 2013 Supporter, Fundraising

2006- 2021 Member, Missouri Botanical Gardens

2010 St Patrick's Center Volunteer

2010, 2011, Susan G. Komen Race for the Cure Volunteer

2014, 2015

2014

Crohn's and Colitis Foundation, Team Challenge Fundraiser & Half-marathon participant