**CURRICULUM VITAE**

**GREGORY W. HOLTZMAN, PT, DPT, SCS**

**July 2024**

**Contact Information:**

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**Present Position:**

2020 – Present: Professor in Physical Therapy and Orthopedic Surgery Washington University School of Medicine

2020 – Present: Division Director of Clinical Practice

**Education:**

Degree Institution Field/Major Date

BA Emory University Psychology / 1991-1995  
 Atlanta, GA Political Science

MSPT Washington University Physical Therapy 1999-2001  
 St. Louis, MO

DPT Washington University Physical Therapy 2002-2007  
 St. Louis, MO

**Academic Positions / Employment:**

Position Institution/Facility Dates

Physical Therapist **The Rehabilitation Institute of St. Louis** 2002-2004

St. Louis, MO

Instructor **Washington University School of Medicine** 2003-2007

Program in Physical Therapy

St. Louis, MO

Assistant Professor **Washington University School of Medicine** 2007-2013

Program in Physical Therapy

St. Louis, MO

Associate Professor **Washington University School of Medicine** 2013-Present

Program in Physical Therapy

St. Louis, MO

Professor **Washington University School of Medicine** 2020-Present

Program in Physical Therapy

St. Louis, MO

**Clinical Title and Responsibilities:**

**Program in Physical Therapy**

*Washington University Physical Therapy Clinics:*

*Clinician*  2004-Present

*Director of the Running Clinic* 2011-Present

*Associate Director of the Clinical Practice* 2013-2020

*Division Director of the Clinical Practice* 2020-Present

Responsibilities: Manage an independent caseload of patients that present with a variety of orthopedic conditions. Specialize in the evaluation and treatment of movement faults and disorders that contribute to pain. Treat patients with post-operative musculoskeletal pain and limitation. Also evaluate and treat the injured runner (both competitive and recreational) using video technology. Management of the day-to-day operations of the Washington University Program in Physical Therapy Clinical Practice. Provide direct supervision to Clinic Managers at location of practice (@4240, 4444, O’Fallon, and Danforth). Specifically engage in marketing activities for the Practice as a whole and provide supervision to the providers on the Danforth campus.

**Teaching Title and Responsibilities:**

*Washington University Program in Physical Therapy*

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

Movement and Precision Health M4A/M4B (703A.01/703B.01)

PCC/DMMP Co-coordinator: 2021-Present

Class Size: 97

Prevention, Diagnosis, and Management of Movement-Related Problems

M5 (710.01)

DMMP MSK Co-coordinator: 2022-Present

Diagnosis and Management of Musculoskeletal Conditions I (PT 614)

Course Assistant: 2005-2021

Class Size: 45-89

Diagnosis and Management of Musculoskeletal Conditions II (PT 624)

Unit Coordinator: Knee – 2009-2021

Class Size: 70-89

Diagnosis and Management of Musculoskeletal Conditions III (PT 635)

Course Coordinator: 2011-2020

Class Size: 70-89

Essential Skills II (PT 627)

Course Coordinator: 2016-2021

Course Assistant: 2003-2015

Class Size: 45-89

Neurology Medicine (PT 625)

Course Coordinator (PT): 2003-2005

Class Size: 80-100 (Includes OT students)

Alternative Skills and Practice Environments (PT 652)

Course Coordinator: 2004-2011

Class Size: 45-75

Professional Issues and Skill Development II (PT 615)

Course Coordinator: 2007-2013

Class Size: 65-80

Clinical Education (PT 691-PT 694)

Member of Clinical Education Team: 2007-2016

Class Size: 15-25 students per class were seen for advisement

*Lecturer for selected courses for the Professional Clinical Doctorate Program*

M7/M8 2024-Present

M5 2022-Present

M4A/B 2021-Present

Diagnosis and Management of Musculoskeletal Conditions II 2009-2021

Health, Fitness, and Prevention 2009-2023

Alternative Skills and Practice Environments 2011-2013

Case Integration III 2012-2023

Kinesiology II 2012-2021

Anatomy 2013-2021

Focus Study: Evaluation and Treatment of the Injured Runner 2013-2023

*Lab Assistant for selected courses for the Professional Clinical Doctorate Program*

Prevention, Diagnosis, and Management of Complex

Movement-Related Problems (M6) 2023-Present

Diagnosis and Management of Musculoskeletal Conditions I 2001-2021

Diagnosis and Management of Musculoskeletal Conditions II 2003-2021

Diagnosis and Management of Musculoskeletal Conditions III 2004-2022

Case Integration I/III 2004-2023

Kinesiology I/II 2012-2021

*Washington University School of Medicine*

Participation in courses for Washington University Medical Students / Residents

Ambulatory Care Rounds 2006

Physical Medicine and Rehabilitation Rounds 2010

Source Testing for the Knee 2016

Evaluation and Treatment of the Injured Runner 2017-2022

Evaluation and Treatment of the Injured Runner with Lab 2022

*Washington University Program in Occupational Therapy*

Participation in course for Washington University OTD students

“Introduction to Physical Agents” 2006-2019

*Continuing Education*

Lab Assistant for continuing education courses: 2002-Present

Diagnosis and Treatment of Musculoskeletal Conditions

Advanced Applications – Lower Quarter

Advanced Applications – Upper Quarter

Instructor for continuing education course: 2006-Present

Diagnosis and Treatment of Musculoskeletal Conditions:

Introductory Course

Advanced Application – Lower Quarter

Advanced Application – Upper Quarter

*Clinical Education / Teaching*

Clinical Instructor 2002-2003

The Rehabilitation Institute of St. Louis

Early Clinical Experience Preceptor 2017-2020

**Medical Licensure and Certification:**

Physical Therapist

Missouri Board of Registration for the Healing Arts 2002-Present

License Number – 2002004659

American Physical Therapy Association

Credentialed Clinical Instructor 2006-Present

Advanced Credentialed Clinical Instructor 2009-Present

Board Certified Sports Clinical Specialist 2015-Present

**Honors and Awards:**

Summa Cum Laude1995

Emory University

Outstanding Missouri Physical Therapy Student (Nominee) 2001

Washington University Program in Physical Therapy

Guebert-Lake Scholarship Recipient 2000

Washington University Program in Physical Therapy

Kathleen Dixon Book Scholarship Recipient 2000

Washington University Program in Physical Therapy

Helen Holzum Service Award 2024

APTA of Missouri

**Community Service Contributions:**

Departmental and academic unit committees and activities

Washington University Program in Physical Therapy

Program Innovation Council 2003-2004

2009-2010

Faculty Search Committee 2005-2009

2012-2014

2021-2023

Committee on Academic Evaluation of Students (CAES) 2003-2010

Technology in the Classroom Committee 2011-2014

Committee on Academic and Professional Evaluation of Student 2011-Present

(CAPES)

Admissions Committee (Professional Curriculum) 2004-Present Chair - Ad Hoc Marketing Committee 2013-2014

Program in Physical Therapy Curriculum Refresh Committees

Domains and Competencies Writing Team 2019-Present

Architecture Team 2019-Present

Technology and Innovation Committee 2019-Present

Module 4 Build Team 2021-Present

Module 5 Build Team 2022-Present

DMMP Thread Team 2024-Present

Competency Attainment Committee (CAC) 2021-Present

Professional Societies and Organizations

American Physical Therapy Association 1999-Present

Orthopedic Section Member 2003-Present

Sports Section Member 2014-Present

Missouri State Delegate 2008-2013

Chief Delegate 2014-2017

Missouri Physical Therapy Association2003-Present

Eastern District Nominating Committee 2004-2007

Chairperson 2006-2007

Board of Directors - Director 2017-2023

Membership Chair 2023-Present

Media

St. Louis Post Dispatch

“Runners Adapt to Prevent Injuries” 2011

Runner’s World

“Flex Benefits” 2014

St. Louis Magazine

“Don’t Stop” 2010

“Run for (the Rest of) Your Life” 2015

“Hip…Hip…Hooray” 2016

**Invited Presentations:**

“Introduction of Physical Therapy for the Allied Health Professional”

Missouri Society of Radiologic Technologists – 4th District 2002

St. Louis, MO

“Ultrasound and Therapeutic Laser” 2007

St. Louis Hand Therapy Society

St. Louis, MO

“Physical Therapist Assessment of Hip Disorders” 2012

7th Annual Sports Medicine Update

St. Louis, MO

“A Movement System Approach to the Evaluation and Treatment of the 2012

Injured Runner”

Eastern District Missouri Physical Therapy Association

St. Louis, MO

“The Injured Runner: Treatment Strategies for Recovery and Prevention” 2013

Midwest Distance Running: Coaching Summit

St. Louis, MO

“A Movement System Approach to the Evaluation and Treatment of the 2014

Injured Runner”

Combined Sections Meeting

Las Vegas, NC

“A Movement System Approach to the Evaluation and Treatment of the 2014

Injured Runner”

Illinois PTA Association

Belleville, IL

“A Movement System Approach to the Evaluation and Treatment of the 2015

Injured Runner”

Montana Physical Therapy Association State Meeting

Whitefish, MT

“A Movement System Approach to the Evaluation and Treatment of the 2015

Injured Runner”

Halifax, Canada

“Lower Quarter Movement System Impairment Syndromes for the 2017

Injured Runner”

Montreal, Canada

“A Movement System Approach to the Evaluation and Treatment of the 2018

Injured Runner”

Middlebury, CT

“Clinical Application of Current Technology in Physical Therapy 2020   
 Practice”

Virtual Platform

“A Movement System Impairment Approach to the Foot/Ankle and 2022

And the Injured Runner”

UCLA, Virtual Course with Lab

“ Building Authentic Bidirectional Academic-Clinical Partnerships: Is 2022

it even Possible?

APTA Education and Learning Conference

Milwaukee, WI

**Research:**

MPTA Grant – “Development and Testing of a Sitting Posture 2008-2015

Monitoring and Alerting System”

Principal Investigator – Barbara J. Norton, PT, PhD

Grant Amount: $5,000.00

Clinical Trial – “Spinal Control During Functional Activities to Improve 2013-2017

Low Back Pain Outcomes”

Principal Investigator – Linda VanDillen, PT, PhD

NIH Grant #: R01 HD047709

Total Costs:  $1,563,678

Responsibilities:

Development of treatment documentation

Treating therapist for motor control group

**Bibliography:**

Original, peer reviewed articles in referred journals:

1. 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,* 42(3): 221-7, 2010.
2. **Holtzman GW,** 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. *Journal of Orthopedic and Sports Physical Therapy.* 42(2): 105-113, 2012.
3. Van Dillen LR, Norton BJ, Sahrmann SA, Harris-Hayes M, **Holtzman G**, Earley J, Strube MJ. Effects of classification specific treatment versus non specific treatment on low back pain related functional disability in people with chronic low back pain over a one year period. *International Society for Electromyography and Kinesiology,* Brisbane, AU; July 18-21, 2012, p.88.
4. Van Dillen LR, Norton BJ, Sahrmann 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.* 24: 52-64, 2016.

Case Reports:

1. **Holtzman GW,** Harris-Hayes M. Treatment of patella alta with taping, exercise, mobilization, and functional activity modification: A Case Report. *Physiotherapy Theory and Practice.* 28(1): 71-83, 2012.
2. Creighton A, **Holtzman G,** Ziegler C, Prather H. Sacral pedical stress fracture in an adolescent competitive basketball and track and field athlete with prior femoral physeal injury: A case report. *PM&R.* 11(6): 657-660, 2019

Reviews, Chapters, and Editorials, including invited publications:

1. **Holtzman GW,** Harris-Hayes M. Staging System for Rehabilitation. In *Movement System Impairment Syndromes of the Extremities, Cervical, and Thoracic Spines,* (pp 35-50) St. Louis, 2011, Elsevier.
2. Harris-Hayes M, Cornbleet SL, **Holtzman GW.** Movement System Syndromes of the Knee. In *Movement System Impairment Syndromes of the Extremities, Cervical, and Thoracic Spines,* (pp 354-438) St. Louis, 2011, Elsevier.
3. Czuppon SL, Cornbleet SL, **Holtzman G.** Movement Systems Impairment Approach to Diagnosis and Treatment of Knee Pain. In *Physical Therapy Approaches to the Lower Quarter.* Academy of Orthopedic Physical Therapy, 2019.

Abstracts:

1. Norton BJ, Wong M, **Holtzman GW.** Asymmetry of postural alignment in the frontal plane associated with trunk lateral bending in standing and sitting. *Journal of Orthopedics and Sports Physical Therapy.* 2006; 36: A51-A52.
2. **Holtzman GW,** Wong M, Norton BJ. Postural alignment differences in 2 test positions: Erect standing and unsupported sitting. *Journal of Orthopedics and Sports Physical Therapy.* 2006; 36: A41-A42.
3. Klaesner JW, **Holtzman GW**, Norton BJ. Instrumented office chair for measuring posture during prolonged sitting. 2007; Biomedical Engineering Society (BMES) Annual Meeting.
4. Harris-Hayes M, **Holtzman GW,** Earley J, VanDillen LR. Intra- and inter-rater reliability of physical therapists to assess patient’s independence in performing a treatment program: Simulated patient scenarios. 2008; APTA Combined Sections Meeting.
5. **Holtzman GW**, Harris-Hayes M. Conservative treatment for patella alta: A Case Study. 2008; APTA Combined Sections Meeting.
6. **Holtzman GW,** Harris-Hayes M, Van Dillen L. Clinical exam procedures for unloading the lumbar region: Effects in people with chronic low back pain. 2009; APTA Combined Sections Meeting.
7. Norton BJ, Vernon D, **Holtzman GW,** Klaesner J. Development of a sitting posture monitoring system. 2010; APTA Combined Sections Meeting.
8. **Holtzman GW,** Vernon D, Norton BJ. Differences in frontal plane back curvature related to side, test condition, and history of low back pain. 2010; APTA Combined Sections Meeting.