**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.