

D.S. Blaise Williams, Ph.D., PT
Curriculum Vitae

EDUCATION

Doctor of Philosophy, 1996-2000
University of Delaware, Newark, DE
Interdisciplinary Graduate Program in Biomechanics and Movement Science

Master of Physical Therapy, 1993-1996
University of Maryland, Baltimore, MD

Bachelor of Arts in Biology, 1988-1992
University of Virginia, Charlottesville, VA

EMPLOYMENT

July 2000-present
East Carolina University, Department of Physical Therapy
Assistant Professor

January 2000
University of Delaware, Department of Physical Therapy
Instructor; Advanced Evaluation and Treatment of the Foot and Ankle

February 1997-May 1999
University of Delaware, Department of Physical Therapy
Lab Instructor and Teaching Assistant; Biomechanics Course

September 1997-December 1998
University of Delaware, Department of Physical Therapy
Lab Instructor and Teaching Assistant; Advanced Neurology Course

September 1997-December 1997
University of Delaware, Department of Physical Therapy
Course Coordinator; Patient Management II

June 1997 to June 2000
Physiotherapy Associates
Coordinator, Body Links: Golf Fitness and Rehabilitation Program

July 1996 to June 2000
Physiotherapy Associates
Staff Physical Therapist

September 1996-December 1996
University of Delaware, Department of Biology
Lab Instructor; Human Anatomy and Physiology

June 1994-December 1995
University of Maryland-Baltimore, Department of Physical Therapy

Lab Instructor and Teaching Assistant; Gross Anatomy

AWARDS AND HONORS

Chair of MiniSymposium entitled "Clinical and Biomechanical Efficacy of Foot Orthoses" at 50th annual meeting of American College of Sports Medicine, San Francisco. May 28-31, 2003.

1999-2000

Maryland State Representative for Government Affairs
Sports Section of American Physical Therapy Association

1997-1998

Foundation for Physical Therapy Scholar, \$1500

INVITED LECTURES:

CSM in Tampa

Williams, DS THE RELATIONSHIP BETWEEN SENSORY NEUROPATHY AND LOWER EXTREMITY MECHANICS (ortho section)

Williams, DS, Boyer, J. & Jenkins, W. Bilateral Plantar Fasciitis in a Division I Basketball Player (sports section)

ACSM in San Francisco

Zambardino, JA, Williams, DS & DeVita, P. THE RELATIONSHIP BETWEEN ACHILLES TENDONITIS IN RUNNERS AND TRANSVERSE PLANE JOINT COUPLING.

February 2001

APTA Combined Sections Meeting, San Antonio, TX.
Biomechanics and Pathomechanics of Running Injuries

October 2000

NCPTA Fall Conference, New Bern, NC.
Lower Extremity Stiffness in Runners With Different Foot Types

September 1998

Temple University School of Podiatric Medicine
Biomechanics of Forefoot/Rearfoot Strike Patterns in Running

PUBLICATIONS

Williams, D.S.; McClay, I.S. and Manal, K.T. (2000) "Lower Extremity Mechanics in Runners with a Converted Forefoot Strike Pattern." J Applied Biomechanics, 16: 210-218.

Williams, D.S. and McClay, I.S. (2000) "Reliability and Validity of Several Arch Characterizing Measurements." Phys Ther. 80: 864-871.

Laughton, C. A.; McClay, I. S. and Williams, D. S. (2000) "A Comparison of Three Different Methods of Obtaining a Negative Impression of the Foot." J Am Podiatric Med Assoc (in review).

McClay, I.S.; Williams, D.S. and Manal, K.T. (2000) "A Comparison of Lower Extremity Kinematics Between Rearfoot and Forefoot Strike Patterns in Runners." J Orthop Sports Phys Ther (in review).

Williams, D.S.; McClay, I. S., and Hamill, J. (2000) "Arch Structure and Injury Patterns in Runners" Clin Biomech (in review).

Williams, D. S.; McClay, I. S.; Hamill, J., and Buchanan T. S. (2000) "Lower Extremity Kinematic and Kinetic Differences in Runners with High and Low Arches." J Appl Biomech (in review)

Williams D. S.; McClay, I. S.; Scholz, J. P.; Hamill J. and Buchanan, T. S. (2000) "Lower Extremity Stiffness in Runners With Different Foot Types." J Biomech. (in review).

Laughton, C. A.; McClay, I. S. and Williams, D. S. (2002) "A Comparison of Three Different Methods of Obtaining a Negative Impression of the Foot." J Am Podiatric Med Assoc 92: 261-268.

Ferber, R.; McClay Davis, I.; Williams, D.S.; and Laughton, C. (2002) "A Comparison of Within and Between-day Reliability of Discrete 3-D Lower extremity Variables in Runners." J Orthop Res 20: 1139-1145.

Williams D. S.; McClay, I. S.; Scholz, J. P.; Hamill J. and Buchanan, T. S. (2002) "Lower Extremity Stiffness in Runners With Different Foot Types." Gait and Posture. (in review).

Ferber, R; McClay Davis, I. S.; and Williams, D. S. (2002) "Orthotics Alter Lower Extremity Joint Coupling and Variability: A Dynamical Systems Approach." J Biomech (in review).

Ferber, R., McClay Davis, I., and Williams III, D.S. (2002). "Gender differences in lower extremity mechanics during running." Medicine and Science in Sports and Exercise (in review).

Williams, D.S.; McClay, I. S., and Hamill, J. (2001) "Arch Structure and Injury Patterns in Runners" Clin Biomech, 16: 341-347.

Williams, D. S.; McClay, I. S.; Hamill, J., and Buchanan T. S. (2001) "Lower Extremity Kinematic and Kinetic Differences in Runners with High and Low Arches." J Appl Biomechanics, 17: 153-163.

ABSTRACTS

Williams D. S.; Hamill J. and McClay, I. S. "Continuous Relative Phase Patterns in Runners With Different Foot Types." APTA Combined Sections Meeting, San Antonio, TX. 2001.

Williams D. S.; McClay, I. S.; Scholz, J. P.; Hamill J. and Buchanan, T. S. "Lower Extremity Stiffness in Runners With Different Foot Types." ASB Annual Meeting, Chicago IL. 2000.

Williams, D.S. and McClay, I.S. "Injury Patterns in Runners with Pes Cavus and Pes Planus" American College of Sports Medicine Meeting, Indianapolis, IN. 2000.

Williams, D.S., Laughton, C.A. and McClay, I.S. "A Comparison of Kinematic Variables During Running Across Genders" APTA Combined Sections Meeting, New Orleans, LA. 2000.

McClay, I.S., Williams, D.S. and Laughton, C.A. "Can Gait be Retrained to Prevent Injury in Runners?" ASB Annual Meeting, Pittsburgh, PA. 1999.

Williams, D.S., McClay, I.S. and Laughton, C.A. "A Comparison of Between Day Reliability of Different Types of Lower Extremity Kinematic Variables in Runners" ASB Annual Meeting, Pittsburgh, PA. 1999.

McClay, I.S., Williams, D.S. and Baitch, S.P. "The Effect Of The Inverted Orthotic On Lower Extremity Mechanics" International Society of Biomechanics Meeting, Calgary, Alberta. 1999.

Laughton, C.A., McClay, I.S. and Williams, D.S. "A Comparison of Three Different Methods of Obtaining a Negative Impression of the Foot" APTA Annual Meeting, Washington, D.C. 1999.

Williams, D.S. and McClay, I.S. "Structure, Mechanics and Injury in Identical Twin Runners: A Case Study" American College of Sports Medicine Meeting, Seattle, WA. 1999.

Williams, D.S. and McClay, I.S. "Reliability and Validity of Medial Longitudinal Arch Measurements" APTA Combined Sections Meeting, Seattle WA. 1999.

McClay, I.S. and Williams, D.S. "Lower Extremity Mechanics in a Converted Forefoot Strike Pattern in Runners" NACOB, Waterloo, Ontario. 1998.

PROFESSIONAL ORGANIZATIONS

1996-present American Physical Therapy Association
Orthopaedics Section, Sports Section and Foot and Ankle Special Interest Group member

1996-present American Society of Biomechanics

COURSES TAUGHT

FIRST YEAR

Functional Anatomy
Musculoskeletal Evaluation and Treatment I
Therapeutic Exercise

SECOND YEAR

Musculoskeletal Evaluation and Treatment II
Special Topics: Advanced Foot and Ankle