

**Doctor of Physical Therapy
Research Symposium**

16th Annual Stuart Lecture



Pierce Boyne, PT, DPT, PhD, NCS

Associate Professor, University of Cincinnati

Co-Director, UC Neurorecovery Lab

PhD Program in Health and Rehabilitation Sciences

He earned his Doctorate in Physical Therapy at the University of Cincinnati in 2010, Neurologic Clinical Specialist certification from the American Board of Physical Therapy Specialties in 2013 and his PhD in Epidemiology in 2017, examining aerobic exercise testing and training for people who have had a stroke. His current research aims to understand how the brain contributes to walking capacity, how that control is affected by brain injuries like stroke and how to best intervene to facilitate walking recovery.

Thursday, 2 May 2024

6:00 PM to 8:30 PM

River Campus

1700 S. Patterson Blvd.

N1650 Meyer Room

University of Dayton

Department of Physical Therapy

Mary I. Fisher, PT, PhD

Department Chair

Professor

Board-certified Orthopedic

Clinical Specialist

Certified Lymphedema Therapist

Joaquin Barrios, PT, DPT, PhD

Professor

Motion Analysis Laboratory Director

Joseph M. Day, PT, PhD

Associate Professor

Board-certified Orthopedic

Clinical Specialist

Betsy Donahoe-Fillmore, PT, PhD

Associate Professor

Board-certified Pediatric

Clinical Specialist

Sean Gallivan, PT, MS, PhD

Associate Clinical Professor

Board-certified Neurologic

Clinical Specialist

Kurt Jackson, PT, PhD

Professor

Board-certified Geriatric

Clinical Specialist

Harold Merriman, PT, PhD

Associate Professor

Certified Lymphedema Therapist

Trisha Renner, PT, DPT

Assistant Clinical Professor

Kevin Sheehan, PT, DPT

Assistant Clinical Professor

Board-certified Orthopedic

Clinical Specialist

Staff

Ann Vaughn

Admissions Coordinator

Vicki Hill

Sr. Administrative Secretary

Lori Mann

Office Coordinator

Abstract Overview

(Links to full abstract information in UD eCommons libraries)

https://ecommons.udayton.edu/dpt_symposium/

Project Title: eHealth Cancer-Related Fatigue Intervention Single Arm Study

Student Researchers: Samantha Wourms, Emily Flohre, Caroline Frazee and Carrie Pickering

Faculty Advisors: Mary I. Fisher, PT, PhD

https://ecommons.udayton.edu/dpt_symposium/46/

Project Title: Efficacy of Curl up Task As Abdominal Exercise Program for Diastasis Recti Abdominis

Student Researchers: Laney Hulbert, Jessica Westerfield and Rio Harrelson

Faculty Advisor: Betsy Donahoe-Fillmore, PT, PhD, Mary Fisher, PT, PhD

** Best Platform – Academy of Pelvic Health at the Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, February 2024*

https://ecommons.udayton.edu/dpt_symposium/44/

Project Title: Effectiveness of a Talocrural Joint Mobilization on Restricted Dorsiflexion: A Time Series Intervention Analysis

Student Researchers: Camyrn Yacks, Carly Archambeau and Ceili Kacmarcik

Faculty Advisor: Joaquin Barrios, PT, PhD

** Poster Award Winner at the Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, February 2024*

https://ecommons.udayton.edu/dpt_symposium/45/

Project Title: Determining the Concurrent and Predictive Validity of the Repetitive Step Test in Individuals with Parkinson's Disease

Student Researchers: Rachel Wells, Evan Callahan and Jacob Greco

Faculty Advisors: Kurt Jackson, PT, PhD and Harold Merriman, PT, PhD

https://ecommons.udayton.edu/dpt_symposium/47/

Project Title: An Artificial Intelligent Millimeter Wave Radar System for Human Activity Recognition and Monitoring

Student Researchers: Abdullah Alhazmi, Vamsy Chodavarapu, Cameron Djukic, Jennifer Jaszek and Anna Brown

Faculty Advisors: Kurt Jackson, PT, PhD

https://ecommons.udayton.edu/dpt_symposium/49/

Abstract Overview (continued)

(Links to full abstract information in UD eCommons libraries)

https://ecommons.udayton.edu/dpt_symposium/

Project Title: The Use and Accuracy of Millimeter Wave Radar and Machine Learning for Gait Classification and Monitoring

Student Researchers: Mubarak Alanazi, Abdullah Alhazmi, Vamsy Chodavarapu, Kurt Jackson, Meghan Brown, Kara Gnau, and Shannon Thiel

Faculty Advisors: Kurt Jackson, PT, PhD

https://ecommons.udayton.edu/dpt_symposium/48/

Project Title: Wrist Flexor and Extensor Tendon Stiffness During Functional Grip: A Pilot Study

Student Researchers: Kristin Stein, Matthew Stephens, Camryn Yacks

Faculty Advisors: Harold Merriman PT, PhD and Joseph Day, PT, PhD, OCS

https://ecommons.udayton.edu/dpt_symposium/43/

Project Title: Altering the lower limb kinetic chain: reliability and minimum detectable change of total support moment

Student Researchers: Ryan Cloud, Morgan Gorski and Adam Grieshop

Faculty Advisors: Joaquin Barrios, PT, DPT and Allison Kinney

https://ecommons.udayton.edu/dpt_symposium/42/

Project Title: Bal-A-Vis-X intervention to improve upper limb coordination in children with disability: A Pilot Study

Student Researchers: Marta Boot, Zoe Clark, Kyla Hill and McKenzie Stefanoff

Faculty Advisors: Betsy Donahoe-Fillmore, PT, PhD; Trisha A. Renner, PT, DPT; Bo Slutz, PT, DPT; Mary I. Fisher PT, MSPT, PhD

https://ecommons.udayton.edu/dpt_symposium/50/

Project Title: A Comparison of Clinical Measures Between Front and Back Court National Basketball Association Players

Student Researchers: Brooklyn Keaton, Noah Monaghan, Brianna Pittenger, Angelica Scanland, Claire Slamka, Destiny Sunberg, Brett Williams, Angelica Scanland and Brianna Pittenger

Faculty Advisors: Phillip Anloague, PT, DHSC, OCS, MTC

https://ecommons.udayton.edu/dpt_symposium/51/

*The University of Dayton
Doctor of Physical Therapy
Class of 2024*

*thank you for your
support of their education through the years
and for coming this evening*