Nicole Bohnsack - McLagan
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The University of Texas at Austin
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EDUCATION

Ph.D., Kinesiology and Health Education, The University of Texas, Austin, TX 2014
Dissertation: *Adaptability of Stride-to- Stride Control of Stepping Movements in Human Walking and Running and a Predicted Walk-to- Run Transition.*
Advisor: John Dingwell, PhD.

M.S., Kinesiology and Health Education, The University of Texas, Austin, TX 2010
Master's Thesis: *Body dynamics during Chi Running*
Advisor: Larry Abraham, Ed.D

B.S., Kinesiology, The Pennsylvania State University, State College, PA 2008

PROFESSIONAL APPOINTMENTS

Director of the Physical Education Division. University of Texas at Austin. Kinesiology and Health Education. PED Division includes 7 full time faculty members and 7- 10 Graduate Students. 2021 - Present

Clinical Gait assessments (Stride FIT) through the University of Texas FIT institute. Gait evaluations and consulting. 2017 - Present

Assistant Professor of Practice. University of Texas at Austin. Kinesiology and Health Education. 2016 - Present

Lecturer. University of Texas at Austin. Kinesiology and Health Education. || Undergraduate Biomechanics (326k) 2014- 2016

Owner/Operator of The Motion Lab, LLC. Independently owned and operated gait evaluation company partnered with Sport Performance International in Austin, Texas. 2014-2016

Assistant Instructor. University of Texas at Austin. Kinesiology and Health Education. |Undergraduate Biomechanics (326k) 2012-2014

PUBLICATIONS

Dingwell, Jonathan & Bohnsack-McLagan, Nicole & Cusumano, Joseph. (2018). Humans Control Stride-to-Stride Stepping Movements Differently for Walking and Running, Independent of Speed. Journal of Biomechanics. 76. 10.1016/j.jbiomech.2018.05.034.

Bohnsack-McLagan, Nicole & Cusumano, Joseph & Dingwell, Jonathan. (2015). Adaptability of Stride-To-Stride Control of Stepping Movements in Human Walking. Journal of Biomechanics. 49. 10.1016/j.jbiomech.2015.12.010.

PREVIOUS RESEARCH EXPERIENCE

Post Doc, *Nonlinear Biodynamics Lab, University of Texas.* Research: Manuscript preparation for three independent papers from dissertation research, "*Determining how Humans Regulate Variability during Walking and Running*." Summer 2014.

Graduate Research Assistant, Department of Kinesiology, University of Texas. Current Ph.D. research focusing on determining the control strategies humans use to regulate stride-to-stride movements during walking under different conditions / constraints. Dissertation is titled, "*Determining how Humans Regulate Variability during Walking and Running*." 2010-2014.

Graduate Research Assistant, Department of Kinesiology, University of Texas. M.S. Thesis compared Chi Running to traditional running. Required extensive use of Vicon Workstation, Vicon Nexus, Visual 3D, and MatLab. 2008-2010.

Undergraduate Research Assistant, Department of Kinesiology, Penn State. Worked as research assistant with Dr. Stephen J. Piazza. Research consisted of helping a doctoral student measure muscle moment arms of the soleus using ultrasound technologies. Spring 2007.

AWARDS AND HONORS

Alderson Teaching fellowship, UT Austin, 2011, 2012, 2013, 2014

McCraw Endowed Presidential Fellowship, UT Austin, 2011 & 2012

Penn State Athletic Scholarship for Track & Field, 2004-2008

PRESENTATIONS

Conference Presentations

Bohnsack, Nicole. Abraham, Lawrence. "Body Dynamics during Chi Running." Gait and Clinical Movement Analysis Society Conference. Bethesda, MD. April 2011. Poster.

Bohnsack, Nicole. Dingwell, Jonathan. Cusumano, Joseph P. "Determining how humans regulate variability during walking." American Society of Biomechanics Conference. Omaha, Nebraska. September 2013. Poster

Bohnsack, Nicole. Dingwell, Jonathan. Cusumano, Joseph P. "Adaptability of Stride-to- Stride Control of Stepping Movements in Human Walking and Running." Society for Neuroscience. San Diego, California. November 2013. Poster

Bohnsack-McLagan, Nicole. Dingwell, Jonathan. Cusumano, Joseph P. "Determining How Humans Regulate Variability during Walking and Running." World Congress of Biomechanics. Boston, Massachusetts. July 2014. Poster

Bohnsack-McLagan, Nicole. Dingwell, Jonathan. Cusumano, Joseph P. "Determining how Humans Regulate Variability during a Predicted Walk-to-Run Transition." Society for Neuroscience. Washington D.C. November 2014. Poster

ADMINISTRATIVE AND PROFESSIONAL SERVICE

Departmental Service

Chair, PED Committee, 2021- Present.
Chair, Committee Building Committee, 2022-Present.
Chair, Non-Tenure Track Merit Committee, 2021-2023.
Member, Non-Tenure Track Merit Committee, 2023-2024.
Member, Undergraduate Advising Committee, 2021-Present.
Member, Non-Tenure Track Faculty Hiring Committee, 2022.
Member, KHE Management Committee, 2024-Present
Speaker, McCraw Lecture Series, 2024.

University Service

Member, PAFAC Committee 2023 - Present.
Member, Rec Sports Committee, 2024-2027.