**Lucas R. Ettinger, PhD. 2021**

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**EDUCATION**

PhD, University of Oregon, Orthopedic Biomechanics, June 2013

Dissertation: "Influence of Subacromial Pain on Scapular Kinematics, Muscle Recruitment and Joint Proprioception in Patients with Subacromial Impingement Syndrome"

Advisor: Andrew R. Karduna, PhD; Co-Advisors: Anita Christie PhD, Louis Osternig PhD and Paul Dassonville PhD.

MS, University of Oregon, Orthopaedic Biomechanics, 2009

Master's Thesis: "Changes in Scapular Kinematics Post Workday in Dental Hygienists"

Advisor: Andrew R. Karduna, PhD

BS, University of Oregon, Human Physiology, 2007

**FACULTY APPOINTMENTS**

*Willamette University, Salem Oregon*

Assistant Professor, Exercise Science, August 2014 - Present

*Saba University School of Medicine, Caribbean Netherlands*

Instructor Human Anatomy, September 2013 – June 2014

*GRADUATE STUDENT TEACHING APPOINTMENTS*

*Department of Human Physiology University of Oregon, Eugene OR.*

Biomechanics 2012 - 2013

Biostatistics 2012- 2013

Human Anatomy 2008 – 2013

**GRANTS**

Oregon Medical Education Foundation Award, September 2021. Human Anatomy Digital Dissection Station. Award total $10,000.

Atkinson Research Expense Award, 2017 – 2018. Award total $1,823

Murdock Science Collaborative Research Program (SCRP), June – July 2019. Award total $8,300

Murdock Science Collaborative Research Program (SCRP), June – July 2018. Award total $8,300.

Murdock Science Collaborative Research Program (SCRP), June – July 2017. Award total $8,300.

Murdock Science Collaborative Research Program (SCRP), June – July 2016. Award total $8,300.

Murdock Science Collaborative Research Program (SCRP), June – July 2015. Award total $8,250.

Eugene and Clarissa Evonuk Memorial Graduate Fellowship, Spring 2012 – Present. Awarded for the project entitled “The Influence of Pain on Scapular Mechanics.” Award total $10,000.

**PUBLICATIONS**

*Peer Reviewed Publications (\* indicates published at Willamette University)*

\*Ettinger L, Shapiro M, Karduna A. Muscle Activity Before and After Subacromial Injection. Sport Rehabilitation. 2021.

\*Ettinger L, Ostrander T. Gravitational Torque Partially Explains Proprioceptive Acuity. Human Movement Science. 2018.

\*Ettinger L, Boucher A, Simonovich E. Patients with Type 2 Diabetes Demonstrate Proprioceptive Deficit in the Knee. World Journal of Diabetes. 2018.

\* Ettinger L, Shapiro M, Karduna A. Patients with Subacromial Impingement Demonstrate Proprioceptive Deficits at the Shoulder and Elbow. Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders. 2017.

\* Ettinger L, Shapiro M, Weiss J, Karduna A. Normalization to Maximal Voluntary Contraction is Influenced by Subacromial Pain. Journal of Applied Biomechanics. 2016.

\* Ettinger L, Shapiro M, Karduna A. Subacromial Injection Results in Further Scapular Dyskinesis. The Orthopaedic Journal of Sports Medicine. 2014.

Ettinger L, Kincl L, Johnson P, Garfinkle S, Karduna A. Workday Arm Elevation Exposure, a Comparison between two Professions. *IIE Transactions on Occupational Ergonomics and Human Factors*. 2013.

Ettinger L, McClure P, Kincl L, Karduna A. Exposure to a workday environment results

in an increase in anterior tilting of the scapula in dental hygienists with greater employment

experience. *Clinical Biomechanics.* 2012.

*Currently Under Peer Review*

\*Ettinger L, Lockard M, Ostrander T. Vector Coding of Arm Position in Space by Ischemic Nerve Block. *Journal of Experimental Brain Research*. 2019.

**CONFERENCE PRESENTATIONS ATTENDANCE AND MODERATION**

*Northwest Biomechaninics Symposium*, Western Washington University, Bellingham WA, 2018. Moderator. “Mechanics.” Presentation: Patients with Type 2 Diabetes Demonstrate Proprioceptive Deficit in the Knee.

*Murdock College Science Research Program,* Gonzaga University, Spokane WA, 2017. Presentation: “Diabetic Neuropathy on Knee Joint Position Sense.”

*Northwest Biomechaninics Symposium*, University of Oregon, Eugene OR, 2017. Moderator. “Upper Extremity Biomechanics.”

*Human Anatomy and Physiology Symposium,* Salt Lake City, UT, 2017.

*Murdock College Science Research Program,* Gonzaga University, Spokane WA, 2016. Presentation: “Diabetic Neuropathy on Knee Joint Position Sense.”

*Northwest Biomechanics Symposium*, University of British Colombia, Vancouver BC, 2016. Presentation: “Internal Torque Partially Accounts for Proprioceptive Acuity in the Shoulder.”

*Murdock College Science Research Program*, Vancouver WA, 2015. “Internal Torque Partially Accounts for Proprioceptive Acuity in the Shoulder.”

*Northwest Biomechanics Symposium*, Willamette University, Salem OR, 2014. Moderator “Upper Extremity Biomechanics.”

*International Shoulder Group (ISB) Aberystwyth University Wales UK, 2012*. “Subacromial Injection Results in Further Scapular Dyskenisis.”

*Northwest Biomechaninics Symposium*, University of Oregon, Eugene OR, 2012. “Subacromial Injection results in Altered Scapular Kinematics and Muscle Recruitment Patterns.”

*American Society of Biomechanics*, University of Southern California, Long Beach CA, 2011. “Arm Elevation Exposure, a Comparison Between Two Professions.”

*Northwest Biomechaninics Symposium*, University of British Colombia, Vancouver BC, 2011. “Arm Elevation Exposure, a Comparison Between Two Professions.”

*American Society of Biomechanics*, Brown University, Providence RI, 2010. “[Alterations in Shoulder Joint Perception Pre and Post Workday](http://www.asbweb.org/conferences/2010/abstracts/165.pdf) .”

*Northwest Biomechaninics Symposium*, University of Washington, Seattle WA, 2010. “Joint position sense in Dental Hygienists Pre and Post Workday.”

*American Society of Biomechanics*, Penn State University, State College PA, 2009. “Scapular Kinematics of Dental Hygienists Pre and Post Workday.”

*Northwest Biomechaninics Symposium*, Washington State University, Pullman WA, 2009. “Scapular Kinematics of Dental Hygienists Pre and Post Workday.”

**HONOR AND AWARDS**

Runner-up, Best Student Presentation Award, 9th Conference of the International Shoulder Group, Aberystwyth University,Wales UK. 2012. “Subacromial injection results in further scapular dyskenisis.”

2012 Recipient of *the Eugene & Clarissa Evonuk Memorial Graduate Fellowship in Environmental and Stress Physiology.* Award total $10,000.

**PROFESSIONAL SOCIETIES**

Human Anatomy and Physiology Society, 2017 - present

International Society of Biomechanics, 2013 - present

International Shoulder Research Group, 2012– present

American Society of Biomechanics, 2008 – present