

Curriculum Vitae

Michael W. Olson, Ph.D.
Department of Athletic Training & Exercise Physiology
Midwestern State University
Wichita Falls, TX 76308
Email: michael.olson@msutexas.edu
Phone: 1-618-910-8587 (Cell)
1-940-397-4053 (Office)
Fax: 1-940-397-4901

MICHAEL WILLIAM OLSON

EDUCATION:

- Doctor of Philosophy, 2006, Louisiana State University
Department of Kinesiology, Kinesiology (Biomechanics)
Dissertation: "Biomechanical Characteristics of Low Back Tissues during Trunk Flexion-Extension Exercises."
Advisor: Li Li, Ph.D.
- Master of Science, 1999, University of Wisconsin – La Crosse
Department of Exercise and Sports Science, Human Performance
Thesis: "Comparison of Hard and Soft Landing Surfaces during Maximal Vertical Jumps in a Depth Jump Plyometric Exercise."
Advisor: Marilyn Miller, Ph.D.
- Bachelor of Science, 1997, University of Wisconsin – Whitewater
Department of Biological Sciences
Biology – Cell Physiology Emphasis

WORK EXPERIENCE:

- August 2019 – Present
Associate Professor and Chair, Department of Athletic Training & Exercise Physiology, Midwestern State University
- August 2018 – August 2019
Coordinator of the Undergraduate Exercise Science Major, Department of Kinesiology, Southern Illinois University Carbondale
- July 2015 – February 2022
Adjunct Chair of Doctorate of Education in the College of Doctoral Studies at Grand Canyon University (on-line teaching/mentoring)
- July 2012 – August 2019
Associate Professor, Department of Kinesiology
Southern Illinois University Carbondale
- August 2006 – August 2019
Director, Biomechanics and Integrative Movement Laboratory
Department of Kinesiology
Southern Illinois University Carbondale
- August 2006 – July 2012
Assistant Professor, Department of Kinesiology
Southern Illinois University Carbondale
- August 2005 – August 2006
Instructor, Department of Physical Education (Kinesiology)
Southern Illinois University Carbondale
- August 2002 – Summer 2005
Coordinator for the Motor Behavior/Biomechanics Laboratory, Department of Kinesiology, Louisiana State University
- May 2002 – August 2002/May 2003 – August 2003

Research Assistant, Louisiana State University Health Sciences Center, School of Medicine, Department of Orthopaedic Surgery, New Orleans, LA, under the direction of Moshe Solomonow, Ph.D., M.D. (honorary)
 August 2001 – Summer 2005
 Teaching and research assistant, Department of Kinesiology, Louisiana State University.
 September 1999 – 2001
 Assistant coach, track and field teams, Colby College, Waterville, ME

PROFESSIONAL AFFILIATIONS:

2020 – Present International Organization of Health, Sports, & Kinesiology
 2010 – Present American Society of Biomechanics
 2007 – Present International Society of Electrophysiology and Kinesiology
 2004 – Present American College of Sports Medicine
 2002 – Present International Society of Biomechanics

HONORS AND AWARDS:

2014 – Present Fellow of the American College of Sports Medicine
 2018 Certificate of Outstanding Contribution in Reviewing: Gait & Posture
 2017 Certificate of Outstanding Contribution in Reviewing: Clinical Biomechanics
 2014 Certificate of Excellence in Reviewing: Applied Ergonomics
 2013 Certificate of Excellence in Reviewing: Journal of Electromyography & Kinesiology

DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES (MSU):

Fall 2019 – Present Department Chair of Athletic Training and Exercise Physiology

- Lead tenured and non-tenured faculty within the department
- Promote and advocate for our department on campus and the surrounding community
- Evaluate teaching, research, and service contributions of faculty
- Mentor for faculty and students
- Work with faculty to implement curricular changes
- Work with Athletic Training faculty to ensure CAATE accreditation standards are maintained
- Work within the departmental budget as the fiscal manager
- Lead recruiting efforts for the department
- Reach out and connect with alumni affiliated with the department
- Outreach to organizations within the community to build strong relationships
- Foster current and develop new collaborations
- Procure equipment for laboratory research and student projects: Biodex isokinetic dynamometer, Polhemus Fastrak electromagnetic sensors, iWorx 8-channel EMG system, Delsys Trigno Research system

DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES (SIUC):

Fall 2018 – 2019	Undergraduate Exercise Science Coordinator
Spring 2016	Interim Undergraduate Exercise Science Coordinator
Spring 2013	Interim Undergraduate Exercise Science Coordinator

EXTRAMURAL FUNDING:

1. New Balance Footwear Research Award, submitted 1 February 2014 (Not funded)
2. Department of Health and Human Services Academic Research Enhancement Award (R15), PA-12-006. Title: “Electromyography and Force Generation Recovery of Paraspinal Muscles Following Cyclic Trunk Loading”, submitted 24 February 2012 (\$145,500.00) (Not funded)
3. National Institute for Arthritis Musculoskeletal and Skin Diseases Small Grant Program (RO3) for New Investigators, PAR-09-031. Title: “Static Trunk Flexion Influences Muscle Activation and Biomechanical Variables during Walking Gait”, submitted 22 June 2009 (\$72,750.00) (Not funded)
4. National Institute of Occupational Safety and Health Small Grant Program (RO3) for New Researchers, PAR-06-364. Title: “Modified Neuromuscular and Mechanical Behavior of the Low Back Viscoelastic Tissues due to Cyclic Trunk Flexion-Extension”, submitted 1 October 2006 (\$72,225.00) (Not funded)

INTRAMURAL FUNDING (\$75,000 + total funded):

1. Midwestern State University, OSPR Intramural Grant, Spring 2023, \$4,751.00 (funded)
2. HEAF for purchase of Delsys Trigno EMG and IMU system, Fall, 2022, \$16,075 (funded)
3. HEAF for purchase of a Biodex isokinetic dynamometer, Fall 2021, \$22,300 (funded)
4. Midwestern State University, OSPR Intramural Grant, Spring 2020, \$6,314.12 (funded)
5. Southern Illinois University Foundation Grant, Fall 2018, \$10,000 requested (not funded)
6. College of Education and Human Services Graduate Research Assistant, 1 graduate assistantship at 25% time for the Fall 2018 semester requested (funded)
7. College of Education and Human Services Graduate Research Assistant, 1 graduate assistantship at 25% time for the Spring 2018 semester requested (funded)
8. Southern Illinois University Undergraduate Assistantship Program, 3 undergraduate assistantships at 25% time/each for the academic year 2016-2017 requested (not funded)
9. Southern Illinois University Undergraduate Assistantship Program, 2 undergraduate assistantships at 25% time/each for the academic year 2015-2016 (funded)
10. Southern Illinois University Undergraduate Assistantship Program, 1 undergraduate assistantship at 25% time for the academic year 2014-2015 (funded)

11. Southern Illinois University Undergraduate Assistantship Program, 1 undergraduate assistantship at 25% time for the academic year 2012-2013 (funded)
12. Travel funds of \$500 from the College of Education and Human Services and \$400 from the Graduate School/Office of Research Development and Administration for presenting research at the XXIII Congress of the International Society of Biomechanics (Brussels, Belgium, July, 2011) (funded)
13. College of Education and Human Services Summer Graduate Research Assistant Award, 2011 (\$1069.50) (funded)
14. College of Education and Human Services Summer Graduate Research Assistant Award, 2010 (\$1069.50) (funded)
15. Southern Illinois University Undergraduate Assistantship Program, 3 undergraduate assistantships at 25% time/each for the academic year 2010-2011 (funded)
16. Travels funds of \$300 from the College of Education and Human Services and \$400 from the Graduate School/Office of Research Development and Administration for presenting research at the Second International Fascia Research Congress (Amsterdam, Netherlands, October, 2009) (funded)
17. College of Education and Human Services Summer Graduate Research Assistant Award, 2009 (\$1027.50) (funded)
18. Southern Illinois University Undergraduate Assistantship Program, 3 undergraduate assistantships at 25% time/each for the academic year 2009-2010 (not funded)
19. Travel funds of \$300 from the College of Education and Human Services and \$300 from the Graduate School/Office of Research Development and Administration for presenting research at the International Society of Electrophysiology and Kinesiology (Niagara Falls, Ontario, Canada, June 2008) (funded)
20. Southern Illinois University Undergraduate Assistantship Program, 2 undergraduate assistantships at 25% time/each for the academic year 2008-2009 (not funded)
21. Southern Illinois University Undergraduate Assistantship Program, 2 undergraduate assistantships at 25% time/each for the academic year 2007-2008 (not funded)
22. Southern Illinois University Undergraduate Assistantship Program, 2 undergraduate assistantships at 25% time/each for the academic year 2006-2007 (funded)
23. Southern Illinois University Office of Research Development and Administration Faculty Seed Grant for new faculty. Title: "Increased Lumbar Passive Tissue Compliance as a Function of Sustained Static Trunk Flexion", submitted 14 November 2006 (\$11,753.00) (funded) – Podium presentation at the 2007 American College of Sports Medicine (ACSM) conference (May 29 – June 2, 2007, New Orleans, LA, USA)
24. Travel fund of \$300.00 from the graduate school, Louisiana State University, for presenting at the International Society of Biomechanics (Cleveland, OH, USA, August 2005) (funded)

25. Travel fund of \$300.00 from the Department of Kinesiology, Louisiana State University, for presenting at the International Society of Biomechanics (Cleveland, OH, USA, August 2005) (funded)
26. Travel fund of \$300.00 from the graduate school, Louisiana State University, for presenting at the International Society of Biomechanics (Dunedin, New Zealand, July 2003) (funded)
27. Travel fund of \$500.00 from the Department of Kinesiology, Louisiana State University for presenting at the International Society of Biomechanics (Dunedin, New Zealand, July 2003) (funded)
28. Corbett Summer Student Research Grant Award of \$2,000.00 from the Department of Kinesiology, Louisiana State University (2003-2004)

RESEACH PROJECTS:

- Plantar flexor stretch and its influence on landing biomechanics and neuromuscular response during single-leg drop landings (Midwestern State University)
- Trunk postural control during drop landing from different heights and with different trunk coactivation levels (Midwestern State University)
- Neuromechanics of the trunk and pelvis during running: modifications due to shoe type, foot landing type, and speed (Southern Illinois University/Midwestern State University)
- Biomechanics of the trunk and lower extremities during a drop landing before and after low back muscle fatigue (Southern Illinois University)
- Comparison of fatigue indexes of quadriceps muscles during knee flexion-extension protocols to exhaustion (Southern Illinois University)
- Neuromuscular response of the thigh musculature to knee capsule mechanical creep during single leg drop landings (Southern Illinois University)
- Biomechanical variability measures before and after induced low back neuromuscular fatigue (Southern Illinois University)
- Kinematics and EMG measures of female volleyball players with and without prior knee injuries (Southern Illinois University)
- Biomechanical and physiological measures of running in contemporary running shoes versus minimalist running shoes (Southern Illinois University)
- Neuromuscular and biomechanical changes during a walking step after ACL creep (Southern Illinois University)
- Recovery of electromyography and force generation of paraspinal muscles after bouts of passive cyclic loading (Southern Illinois University)
- Biomechanical factors related to performance and experience in female San Shou martial arts athletes
- Stability measures of the trunk before and after 1) active loading and 2) passive loading in trunk flexion-extension (Southern Illinois University)
- Comparison of paraspinal reflex response before and after implementation of one of two protocols: 1) low back fatigue and 2) passive loading (Southern Illinois University)
- Modification of muscle activation patterns and walking gait kinematics after prolonged cyclic flexion-extension of the trunk (Southern Illinois University)

- Electromyographic analysis of quadriceps muscles activity of cerebral palsy patients during prolonged knee flexion-extension – in collaboration with faculty at the University of South Carolina School of Medicine (Southern Illinois University)
- Recovery of myoelectric activity and trunk kinematics after induced passive trunk flexion-extension (Southern Illinois University)
- Force output and electromyographic signal changes in trunk muscles during maximal voluntary isometric contractions before and after passive cyclic trunk flexion-extension (Southern Illinois University)
- Reflexive response of paraspinal muscles to mechanical perturbation before and after passive cyclic trunk flexion-extension (Southern Illinois University)
- Modified gait parameters due to neuromuscular fatigue in the lumbar paraspinal muscles (Southern Illinois University)
- Fatigability study of muscles using electromyography, in collaboration with faculty in the College of Engineering (Southern Illinois University)
- Neuromuscular fatigue induces modified activation of trunk muscles in sub-maximal conditions (Southern Illinois University)
- Static trunk flexion and its role in neuromuscular adaptation of the lumbar paraspinal and abdominal muscles (Southern Illinois University)
- Modified gait velocity variability due to repetitive cyclic trunk flexion extension (Southern Illinois University)
- Passive tissue compliance measured during passive trunk flexion-extension (Louisiana State University)
- Flexion-relaxation phenomenon response to changes in body orientation relative to gravity (Louisiana State University and LSU Health Sciences Center)
- Radiographic reliability of ligament stretch in static and dynamic low back stretching (Louisiana State University)
- Effects of static and cyclic low back stretch on muscle activity and gait (Louisiana State University)
- Effects of low back creep on low back muscle activity (Louisiana State University Health Sciences Center)
- Joint power analysis during a jump squat exercise (Louisiana State University)
- Human gait transition (Louisiana State University)

INVITED PRESENTATIONS (5):

1. “Skeletal Muscle Function”, presented at the Lifelong Learning Center on the Midwestern State University campus, March 9, 2023, Wichita Falls, TX.
2. “Synergies of Lower Limb Muscles in Cycling”, presented at the research symposium for Hotter n’ Hell, August 26, 2022, Wichita Falls, TX
3. “Trunk Biomechanics of Cyclists: Are you at risk for low back pain?”, presented at the research symposium for Hotter n’ Hell, August 20, 2022, Wichita Falls, TX
4. “Where Are We Going?: A Review of the Planes and Axes of the Human Body”, presented at the Southern Illinois University Carbondale Recreational Facility for staff training, April 2012, Carbondale, IL.

5. “Low Back Muscle Activity during Trunk Flexion-Extension”, presented at the Louisiana State University Health Sciences Center Physical Therapy Research Day 2005, New Orleans, LA.

TUTORIAL PRESENTATIONS (1):

1. “Is there a link between fatigue, incidents of injury, and foot landing style during running?”, in the program of the Midwest Chapter of the American College of Sports Medicine (MWACSM) conference (November 4 – 5, 2016, Fort Wayne, IN, USA)

PROJECTS CURRENTLY BEING UNDERTAKEN (3):

1. Dynamic control of balance during single-leg drop landings after prolonged plantar flexor stretch
2. Comparison of quadriceps muscle fatigue to exhaustion in two separate knee flexion-extension protocols
3. Leg stiffness during single-leg landings before and after passive knee loading protocol
4. Low back neuromechanics during running with different foot landing styles and shoe conditions

PAPERS CURRENTLY IN PREPARATION (0):

PAPER SUBMITTED TO PEER REVIEWED JOURNAL FOR PUBLICATION (1):

1. **Olson, M.W.** Prolonged sub-maximal back extension induces muscle fatigue and modifies muscle activation during single-leg drop landing

PUBLICATIONS IN PRESS (0):

PUBLICATIONS IN PEER REVIEWED JOURNALS (15):

1. **Olson, M.W.** (2020). Static loading of the knee joint results in modified single leg landing biomechanics. *PLoS One*, 15(2), doi: 10.1371/journal.pone.0219648
2. **Olson, M.W.** (2018). Modification of paraspinal muscle activation patterns during walking gait after prolonged cyclic flexion-extension of the trunk. *Sports Medicine and Rehabilitation Journal*, 3(3), 1038,
3. **Olson, M. W.**, Li, L. (2018). Repetitive trunk loading leads to faster trunk movement in response to external perturbation. *Journal of Biomechanics*, 80, 95-101.
4. Moreau, N.G., Knight, H., & **Olson, M. W.** (2016). A potential mechanism by which torque output is preserved in cerebral palsy during fatiguing contractions of the knee extensors. *Muscle & Nerve*, 53, 297-303.
5. **Olson, M.W.** (2014). Comparison of trunk muscle reflex activation patterns between active and passive trunk flexion-extension loading conditions. *Human Movement Science*, 34, 12-27.

6. Jiang, C., **Olson, M.W.**, & Li, L. (2013). Determination of biomechanical differences between elite and novice San Shou female athletes. *Journal of Exercise Science & Fitness*, 11, 25-28.
7. Park, M., Yoh, T., Choi, Y.S., & **Olson, M. W.** (2012). Consumer attitudes toward the Paralympic Games and purchase intentions toward corporate sponsors of the Paralympic Games: market segmentation strategy. *Journal of Venue & Event Management*, 3, 1-16.
8. **Olson, M. W.** (2011). Passive trunk flexion-extension influences muscle activation during dynamic activity. *Muscle & Nerve*, 44, 749-756.
9. **Olson, M. W.** (2011). Passive repetitive loading of the lumbar tissues influences force output and EMG during maximal efforts. *European Journal of Applied Physiology*, 111, 1269-1278.
10. **Olson, M. W.** (2010). Trunk muscle activation during sub-maximal extension efforts. *Manual Therapy*, 15, 105-110.
11. **Olson, M. W.** (2010). Trunk extensor fatigue influences trunk muscle activities during walking gait. *Journal of Electromyography & Kinesiology*, 20, 17-24.
12. **Olson, M. W.**, Li, L., Solomonow, M. (2009). Increased viscoelastic tissue compliance in the low back during passive cyclic trunk flexion-extension exercise, *Journal of Electromyography and Kinesiology*, 19, 30-38.
13. Li., L., **Olson M. W.**, Winchester J. B. (2008). A proposed method for determining peak power in jump squat exercise, *Journal of Strength and Conditioning Research*, 22, 326-331.
14. **Olson, M.**, Solomonow, M., L. Li, L. (2006). Flexion-relaxation response to gravity, *Journal of Biomechanics*, 39, 2545-2554.
15. **Olson, M. W.**, Li., L., Solomonow, M. (2004). Flexion-relaxation response to cyclic lumbar flexion, *Clinical Biomechanics*, 19(8), 769 – 776.

PUBLISHED PEER REVIEWED ABSTRACTS (27):

1. Powar, G. & **Olson, M. W.** (2023). Correlation between strength, counter-movement jump, med-ball throws, and stroke velocity in collegiate tennis players: a pilot study. *International Journal of Exercise Science*, 2 (15), 127.
2. Patel, H. & **Olson, M. W.** (2023). Biomechanical responses of the leg to single-leg drop landings before and after prolonged plantar flexor stretch. *International Journal of Exercise Science*, 2 (15), 134.
3. Wyatt F, **Olson M.W.**, Winchester J.B., Iga, S., Hever, M., Chaffin, L., Brownstein J., & Daniel, A. (2022). Associations Between Fitness Components In Collegiate Female Soccer Players, *Medicine & Science in Sport & Exercise*, 54 (supplemental).
4. Patel, H.M., Wyatt, F.B., Choi, S-M., & **Olson, M.W.** (2022). The Effects of Covid-19 on Cardiac Health Investigated by Electrocardiogram in Collegiate Athletes, *International Journal of Exercise Science*, 2 (14), 96.
5. West, H.G., Choi, S-M., Wyatt, F.B., & **Olson, M.W.** (2022). Effects of 8-Week Ketogenic Diet on Anthropometrics, Body Composition, Metabolic Parameters, and Psychological Factors in Young Obese Population, *International Journal of Exercise Science*, 2 (14), 129.

6. Delgadillo, N.A., Wyatt, F.B., **Olson, M.W.**, & Choi, S-M. (2022). The Effects of Body Composition on Resting Metabolic Rate among College Aged Students, *International Journal of Exercise Science*, 2 (14), 94.
7. Hever, M., Wyatt, F.B., Winchester, J.B., **Olson, M.W.**, Chaffin, L., Brownstein, J., Iga, S., & Picasio, L. (2022). Joint range of Motion is Associated with Injury Risk in Women's Collegiate Soccer Players, *International Journal of Exercise Science*, 2 (14), 92.
8. Chaffin, L., Winchester, J.B., Wyatt, F.B., **Olson, M.W.**, Hever, M., Iga, S., Brownstein, J., & Picasio, L. (2022). Joint Laxity is Predictive of Injury in Women's Collegiate Soccer Players, *International Journal of Exercise Science*, 2 (14), 99.
9. Iga, S., Winchester, J.B., Wyatt, F.B., **Olson, M.W.**, Brownstein, J., Hever, M., Picasio, L., & Chaffin, L. (2022). The Relationship between Landing Mechanics and Injury Risk in Women's Collegiate Soccer Players, *International Journal of Exercise Science*, 2 (14), 100.
10. Brownstein, J., Wyatt, F.B., Winchester, J.B., **Olson, M. W.**, Iga, S., Chaffin, L., Hever, M., & Picasio, L. (2022). Change of Direction is Associated with Non-contact Injuries in Women's Collegiate Soccer Players, *International Journal of Exercise Science*, 2 (14), 97.
11. **Olson, M.W.** & Delgadillo, N. A. (2021). Paraspinal Muscle Fatigue Influences Trunk Kinematics during Single-Leg Drop jump Landings, *Medicine and Science in Sport and Exercise*, 53, S1
12. Gregg, Z., Wyatt, F., Brown, S., Lopez, M., Choi, SM, **Olson, M.** (2021). Physiological Adaptations to Moderate Intensity Training in an Elite Cyclist. *Journal of Exercise Physiology* online, February
13. **Olson, M.** (2019). Response of low back muscles to modified shoe, landing, and speed conditions: a pilot study. *Journal of Exercise Physiology* online, 22(5).
14. **Olson, M. W.** (2019). Static loading of the knee joint results in modified single leg landing biomechanics. *Medicine & Science in Sport & Exercise*, 51 (supplemental), 612-613.
15. **Olson, M. W.**, & Li, L. (2018). Repetitive trunk loading leads to faster trunk movement in response to external perturbation. *Medicine & Science in Sport & Exercise*, 50, 571-572.
16. **Olson, M. W.**, Hole, M. (2014). Examination of medial knee collapse in collegiate female volleyball players with and without previous injury. *Medicine and Science in Sport and Exercise*, 46, S1.
17. Vij, S. K., **Olson, M. W.** (2014). Recovery of force output and electromyography from trunk muscles after cyclic passive loading. *Medicine and Science in Sport and Exercise*, 46, 5S, 668-677.
18. **Olson, M. W.** (2012). Trunk kinematics analysis during acute loading before and after prolonged loading of the paraspinal tissues. *Medicine and Science in Sports and Exercise*, 44 (S2), 544-544.
19. **Olson, M. W.**, Morrissey, M., & Ostrowski, E. (2011). Temporal analysis of paraspinal muscle activation prior to and immediately following passive cyclic trunk flexion-extension. *Medicine & Science in Sport & Exercise*, 43 (S1).

20. **Olson, M. W.** (2010). Neuromuscular recovery of paraspinal muscles activation following passive cyclic trunk flexion-extension. *Medicine and Science in Sports and Exercise*, 42 (5), S1, 579-579.
21. **Olson, M. W.**, & Denny, J. (2009). Response of lumbar muscles to release of the trunk after passive cyclic trunk flexion-extension. *Medicine & Science in Sport & Exercise*, 41 (S1), 430-431.
22. **Olson, M. W.** (2008). Differential recruitment of trunk musculature during sub-maximal isometric trunk extension efforts. *Medicine and Science in Sports and Exercise*, 40 (5), S343-S343.
23. **Olson, M. W.** (2007). Modified walking velocity variability after standing cyclic trunk flexion-extension exercise, *Journal of Biomechanics, Programs and Abstracts of the XXI International Society of Biomechanics*, 40(S2), S248.
24. **Olson, M.W.** (2007). Increased viscoelastic tissue compliance as a function of static passive trunk flexion. *Medicine & Science in Sports & Exercise*, 39 (supplemental).
25. **Olson, M. W.**, Li, L. (2006). Increased lumbar passive tissues compliance as a function of continuous trunk flexion-extension exercise. *Medicine and Science in Sports and Exercise*, 38 (5), S260-S260.
26. **Olson, M. W.**, Li, L. (2004). Decreased electromyography frequency in paraspinal muscles during sustained cyclic trunk flexion-extension, *Medicine and Science in Sports and Exercise*, 36 (5), S178-S178.
27. **Olson, M. W.**, Miller, M. K., Kernozek T., Triplett-McBride, N. T. (2001). The effects of hard and soft landing surfaces on maximal vertical jumping following depth jump plyometric exercise, *Research Quarterly for Exercise and Sport, Supplemental*, 72 (1), A17-A18.

INVITED CHAPTERS IN EDITED BOOK (1):

1. **Olson, M. W.** Gait and Low Back Pain: Biomechanical and Neuromuscular Control Factors in Determining Gait Differences in Individuals with and without Low Back Pain. In: *Gait Biometrics: Basic Patterns, Role of Neurological Disorders and Effects of Physical Activity*, Li & Holmes Eds., Nova Science Publishers, 2013.

CONFERENCE PROCEEDINGS (39):

Regional (16):

2. Powar, G. & **Olson, M. W.** (2023). Correlation between strength, counter-movement jump, med-ball throws, and stroke velocity in collegiate tennis players: a pilot study. *International Journal of Exercise Science*, 2 (15), 127.
3. Patel, H. & **Olson, M. W.** (2023). Biomechanical responses of the leg to single-leg drop landings before and after prolonged plantar flexor stretch. *International Journal of Exercise Science*, 2 (15), 134.
4. Patel, H.M., Wyatt, F.B., Choi, S-M., & **Olson, M.W.** (2022). The Effects of Covid-19 on Cardiac Health Investigated by Electrocardiogram in Collegiate Athletes, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)

5. West, H.G., Choi, S-M., Wyatt, F.B., & **Olson, M.W.** (2022). Effects of 8-Week Ketogenic Diet on Anthropometrics, Body Composition, Metabolic Parameters, and Psychological Factors in Young Obese Population, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
6. Delgadillo, N.A., Wyatt, F.B., **Olson, M.W.**, & Choi, S-M. (2022). The Effects of Body Composition on Resting Metabolic Rate among College Aged Students, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
7. Hever, M., Wyatt, F.B., Winchester, J.B., **Olson, M.W.**, Chaffin, L., Brownstein, J., Iga, S., & Picasio, L. (2022). Joint range of Motion is Associated with Injury Risk in Women's Collegiate Soccer Players, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
8. Chaffin, L., Winchester, J.B., Wyatt, F.B., **Olson, M.W.**, Hever, M., Iga, S., Brownstein, J., & Picasio, L. (2022). Joint Laxity is Predictive of Injury in Women's Collegiate Soccer Players, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
9. Iga, S., Winchester, J.B., Wyatt, F.B., **Olson, M.W.**, Brownstein, J., Hever, M., Picasio, L., & Chaffin, L. (2022). The Relationship between Landing Mechanics and Injury Risk in Women's Collegiate Soccer Players, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
10. Brownstein, J., Wyatt, F.B., Winchester, J.B., **Olson, M. W.**, Iga, S., Chaffin, L., Hever, M., & Picasio, L. (2022). Change of Direction is Associated with Non-contact Injuries in Women's Collegiate Soccer Players, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 24-25, 2022, Waco, TX, USA)
11. Delgadillo, N. A. & **Olson, M. W.** (2021). Paraspinal Muscle Fatigue Influences Trunk Kinematics during Single-Leg Drop jump Landings, in the program of the Texas Chapter of the American College of Sports Medicine (TACSM) conference (February 25-26, 2021, Virtually – hosted on Symposium by ForagerOne)
12. Jones, J. & **Olson, M. W.** (2016). Temporal Measures of Muscle Activation and Force Stabilization before and after Static Loading of the Knee Joint Capsule. in the program of the Midwest Chapter of the American College of Sports Medicine (MWACSM) conference (November 4 – 5, 2016, Fort Wayne, IN, USA)
13. Yang, H., **Olson, M. W.** (2015). Evaluation of Knee Kinematics Parameters Before and After Mechanical Loading of the Knee Joint, in the program of the Midwest Chapter of the American College of Sports Medicine (MWACSM) conference (November 6 – 7, 2015, Fort Wayne, IN, USA)
14. Soma, N., **Olson, M. W.** (2013). Induced Anterior Cruciate Ligament Creep Influences Ground Reaction Forces and Muscle Activation in Walking, in the program of the Midwest Chapter of the American College of Sports Medicine (MWACSM) conference (November 8 – 9, 2013, Merrillville, IN, USA)

15. Vij, S. K., **Olson, M. W.** (2013). Recovery of Force Output and Electromyography from Trunk Muscles After Cyclic Passive Loading, in the program of the Midwest Chapter of the American College of Sports Medicine (MWACSM) conference (November 8 – 9, 2013, Merrillville, IN, USA)
16. **Olson, M. W.**, Li, L. (2004). Cyclic Flexion-Extension Induces Increased Silence During Flexion-Relaxation, in proceedings of the 2004 Southeast American College of Sports Medicine (SEACSM) conference (January 29 - 31, 2004, Atlanta, GA, USA).
17. Li, L., **Olson, M. W.** (2004). Flexion-Relaxation Phenomenon in Relation with Ligament Creep and Micro Damage, in proceedings of the 2004 Southeast American College of Sports Medicine (SEACSM) conference (January 29 – 31, 2004, Atlanta, GA, USA).

National/International (31):

1. **Olson, M.W. (2023)**. Modified trunk and lower extremity biomechanics during running at preferred speed: a case study in foot landing type and footwear, in the proceedings of the American College of Sports Medicine (ACSM) conference (May 29-June 3, 2023, Denver, CO, USA).
2. Winchester, J. B., **Olson, M. W.**, Wyatt, F. B., Iga, S., Picasio, L., Chaffin, L., Hever., & Brownstein, J. (2022). Muscular Power and Aerobic Capacity are associated with Injury Risk in Women’s Collegiate Soccer Players, in the proceedings of the National Strength and Conditioning Association National conference (July 5-9, 2022, New Orleans, LA, USA)
3. Wyatt F, **Olson M.W.**, Winchester J.B., Iga, S., Hever, M., Chaffin, L., Brownstein J., & Daniel, A. (2022). Associations Between Fitness Components In Collegiate Female Soccer Players, in the proceedings of the American College of Sports Medicine (ACSM) conference (May 31-June 4, 2022, San Diego, CA, USA).
4. **Olson, M.W.** Trunk Kinematics and Muscle Response to Single-Leg drop-Landing Perturbation, in the proceedings of the 2022 American Society of Exercise Physiologists conference (April 22, 2022, Wichita Falls, TX, USA).
5. **Olson, M. W.** & Delgadillo, N. A. (2021). Paraspinal Muscle Fatigue Influences Trunk Kinematics during Single-Leg Drop Landings, in the program of the American College of Sports Medicine (ACSM) conference (June 1-5, 2021, Virtually – hosted on Symposium by ForagerOne)
6. **Olson, M.W.** (2021). Assessment of Abdominal Bracing Techniques during Drop-Landings using Linear and Center of Pressure Measures, in the proceedings of the 2021 American Society of Exercise Physiologists virtual conference (April 9, 2021).
7. **Olson, M.** (2019). Response of Low Back Muscles to Modified Shoe, Landing, and Speed Conditions: A Pilot Study, in the proceedings of the 2019 American Society of Exercise Physiologists Conference (October 11-12, 2019, Wichita Falls, TX, USA).
8. **Olson, M. W.** (2019). Static Loading of the Knee Joint Results in Modified Single Leg Landing Biomechanics, in the proceedings of the 2019 American

- College of Sports Medicine (ACSM) conference (May 28 – June 1, 2019, Orlando, FL, USA).
9. **Olson, M. W.**, Li, L. (2018). Repetitive Trunk Loading Leads to Faster Trunk Movement in Response to External Perturbation, in the proceedings of the 2018 American College of Sports Medicine (ACSM) conference (May 29 – June 2, 2018, Minneapolis, MN, USA).
 10. **Olson, M. W.**, Kemp, S. (2015). Low Back Fatigue Influences Postural Variability, in the proceedings of the 2015 American Society of Biomechanics (ASB) conference (August 5 – 8, 2015).
 11. **Olson, M. W.**, Hole, M. (2014). Examination Of Medial Knee Collapse In Collegiate Female Volleyball Players With And Without Previous Injury, in the proceedings of the 2014 American College of Sports Medicine (ACSM) conference (May 27 – 31, 2014, Orlando, FL, USA).
 12. Vrij, S. K., **Olson, M. W.** (2014). Recovery of Force Output and Electromyography From Trunk Muscles After Cyclic Passive Loading, in the proceedings of the 2014 American College of Sports Medicine (ACSM) conference (May 27 – 31, 2014, Orlando, FL, USA).
 13. Sougiannis, A.T., **Olson, M.W.**, Wallace, J.P. (2013). Changes in Running Form and Economy in Trained Male Endurance Runners Switching to Barefoot Shoes, in the proceedings of the 2013 American College of Sports Medicine (ACSM) conference (May 29 – June 1, 2013, Indianapolis, IN, USA).
 14. **Olson, M. W.** (2012). Trunk Kinematics Analysis during Acute Loading Before and After Prolonged Loading of the Paraspinal Tissues, in the proceedings of the 2012 American College of Sports Medicine (ACSM) conference (May 30 – June 2, 2012, San Francisco, CA, USA).
 15. **Olson, M. W.** (2011). Reflexive Response of the Paraspinal Muscles to Sudden Load Performed Before and After Passive and Active Trunk Flexion-Extension: A Pilot Study. in proceedings of the XXIII Congress of the International Society of Biomechanics (ISB) (July 3 – 7, 2011, Brussels, Belgium).
 16. **Olson, M. W.**, Morrissey, M., Ostrowski, E. (2011). Temporal Analysis of Paraspinal Muscle Activation Prior To and Immediately Following Passive Cyclic Trunk Flexion-Extension, in the proceedings of the 2011 American College of Sports Medicine (ACSM) conference (June 1 – 4, 2011, Denver, CO, USA).
 17. Moreau N. G., Knight H. **Olson M.W.** (2011). To Decline or Not To Decline: A Potential Mechanism by Which Torque Output Is Preserved In Cerebral Palsy. Section on Pediatrics, Combined Sections meeting, American Physical Therapy Association, in the proceedings of Pediatric Physical Therapy, 23(1), 101 (February 9 – 12, 2011, New Orleans, LA, USA).
 18. **Olson, M. W.** (2010). Neuromuscular Recovery of Paraspinal Muscles Activation Following Passive Cyclic Trunk Flexion-Extension, in the proceedings of the 2010 American College of Sports Medicine (ACSM) conference (June 1 – 5, 2010, Baltimore, MD, USA).
 19. **Olson, M. W.**, Li, L., & Solomonow, M. (2009). Viscoelastic Tissues Compliance and Lumbar Muscles Activation during Passive Cyclic Flexion-

- Extension, in proceedings of the Second International Fascia Research Congress (October 26 – 30, 2009, Amsterdam, Netherlands).
20. Leone, J. E., Fetro, J. V., Kittleson, M. J., Welshimer, Partridge, J. A., Robertson, S. A., Maurer-Starks, S., & **Olson, M. W.** (2009). Development and Validity of the Adolescent Body Image Satisfaction Scale (ABISS): Implications for the Strength and Conditioning Professional, in proceedings of the 2009 National Strength and Conditioning Association (NSCA) Conference (June 29 – July 4, 2009, Las Vegas, NV, USA).
 21. **Olson, M. W.**, Denny, J. (2009). Response of Lumbar Muscles to Release of the Trunk after Passive Cyclic Trunk Flexion-Extension, in proceedings of the 2009 American College of Sports Medicine (ACSM) conference (May 26 – 30, 2009, Seattle, WA, USA).
 22. **Olson, M. W.** (2008). Neuromuscular Fatigue of the Lumbar Extensors Influences Walking Gait Parameters in Healthy Women, in proceedings of the 17th Congress of the International Society of Electrophysiology and Kinesiology (ISEK) June 18-21, 2008, Niagara Falls, Ontario, Canada).
 23. **Olson, M. W.** (2008). Differential Recruitment of Trunk Musculature during Sub-maximal Isometric Trunk Extension Efforts, in proceedings of the 2008 American College of Sports Medicine (ACSM) conference (May 27 – 31, 2008, Indianapolis, IN, USA).
 24. **Olson, M. W.** (2007). Modified Walking Velocity Variability After Standing Trunk Flexion-Extension Exercise, in proceedings of the XXI Congress of the International Society of Biomechanics (ISB) (July 1 – 5, 2007, Taipei, Taiwan).
 25. **Olson, M. W.** (2007). Increased Lumbar Passive Tissue Compliance as a Function of Static Passive Trunk Flexion, in proceedings of the 2007 American College of Sports Medicine (ACSM) conference (May 29 – June 2, 2007, New Orleans, LA, USA).
 26. **Olson, M. W.**, Li., L. (2006). Increased Lumbar Passive Tissues Compliance as a Function of Continuous Trunk Flexion-Extension Exercise, in proceedings of the 2006 American College of Sports Medicine (ACSM) conference (May 30 – June 3, 2006, Denver, CO, USA).
 27. **Olson, M. W.**, Li., L. (2005). Activation Patterns of Trunk Muscles during Cyclic Flexion-Extension, in proceedings of the XX Congress of the International Society of Biomechanics (ISB) (August 1 – 6, 2005, Cleveland, OH, USA).
 28. Winchester, J.B., **Olson, M. W.**, and Li L. (2005) A Proposed Method for Determining Peak Power in the Jump Squat Exercise, in proceedings of the 2005 National Strength and Conditioning Association (NSCA) Conference (July 3 – 7, 2005 Las Vegas, NV, USA).
 29. **Olson, M. W.**, Li, L. (2004). Decreased Electromyography Frequency in Paraspinal Muscles During Sustained Cyclic Trunk Flexion-Extension, in proceedings of the 2004 American College of Sports Medicine (ACSM) conference (June 2 – 5, 2004, Indianapolis, IN, USA).
 30. **Olson, M. W.**, Li. L. (2003). Evidence for the Induction of Spinal Ligament Creep During Cyclic Flexion-Extension, in proceedings of the XIX Congress of

the International Society of Biomechanics (ISB) (July 6 – 11, 2003, Dunedin, New Zealand).

31. **Olson, M. W.**, Miller, M. K., Kernozak, T., Tripplet-McBride, T. (2001). The Effects of Hard and Soft Landing Surfaces on Maximum Vertical Jumping Following Depth Jump Plyometric Exercise, in proceedings of the 2001 American Association of Health, Physical Education, Recreation, and Dance (AAHPERD) conference (April 27 – 31, 2001, Cincinnati, OH, USA).

Undergraduate Research Forum Sponsored by SIUC Center for Undergraduate Research & Creative Activities (CURCA) (3):

1. Hudson, A. & **Olson, M. W.** (2019). Trunk muscle activation response to single leg drop landings before and after trunk extensor fatigue.
2. Jones, J. & **Olson, M. W.** (2016). Temporal measures of muscle activation and force stabilization before and after static loading of the knee joint capsule.
3. Wang, K. Z. & **Olson, M. W.** (2016). Mode of neuromuscular fatigue indicates response of the antagonist muscles surrounding the knee joint.
4. Kemp, S. & **Olson, M. W.** (2015). Low back fatigue influences postural variability.

Enhancing Undergraduate Research Endeavors & Creative Activities (EURECA) (MSU Texas)

1. Heriberto Torres, Exploring the language barrier in healthcare for individuals of Latino heritage, spring 2023

BIOMECHANICS LABORATORY STUDENT ASSISTANTS (MSU TEXAS):

Undergraduate:

- Brittany Coltrain, exercise physiology (Spring 2023)
- Connor Hill, exercise physiology (Spring 2023)
- Maggie Smith, athletic training (Spring 2020)

BIOMECHANICS AND INTEGRATIVE MOVEMENT LABORATORY STUDENT ASSISTANTS (SIUC):

Graduate:

- Anthony Hudson, exercise science (Spring 2018, Fall 2018, Spring 2019)
- Secily Moss, exercise science (Spring (2017)
- Yung Hu, exercise science (Fall 2015)
- Zidong Li, exercise science, (Fall 2014)
- Yawei Yuan, biomedical engineering (Summer 2012)
- Micah Larson, exercise science (Summer 2011)
- Erik Ostrowski, exercise science (Fall 2010)
- Margaret Morrissy, exercise science (Spring 2010, Summer 2010)
- Chelsea Bradley, exercise science (Summer 2009)
- Matthew Christman, sports studies (2006 – 2008)

Undergraduate:

- Blain LePere, undergraduate exercise science (Spring 2017)
- Kevin Wang, undergraduate in psychology (Fall 2015 – Spring 2016)

- Jared Jones, undergraduate in biological sciences (Fall 2015 – Spring 2016)
- Shelby Kemp, undergraduate in biological sciences (Fall 2014 – Spring 2015)
- Matthew Angeles, undergraduate in chemistry (Spring, 2013)
- Jonathan Spotanski, undergraduate in biological sciences (Fall, 2012)
- Jessica Cogdill, undergraduate in mechanical engineering, independent study (Summer 2011)
- David Zaehler, undergraduate in kinesiology (Spring 2011)
- Rachel Emig, undergraduate in kinesiology, (Fall 2010), graduate December 2010
- Michael Luczkiw, undergraduate in kinesiology (2010-2011)
- Adam Schlag, undergraduate in electrical engineering (2010 – 2011)
- Melody James, undergraduate in physical education teacher education (2006 – 2007)
- David Little, undergraduate in kinesiology and civil engineering (Spring 2007)
- Nicole Deckert, undergraduate in exercise science (Fall 2006)

TEACHING EXPERIENCE:

Midwestern State University

- EXPH 5083 Science Behind Injury & Rehabilitation
- EXPH 5043 Advanced Biomechanics
- EXPH 3003 Strength Training and Conditioning
- EXPH 2993 Biomechanics and Analysis of Human Movement
- EXPH 2333 Introduction to Nutrition
- EXPH 1803 Anatomical Kinesiology

Southern Illinois University Carbondale

- KIN 512 Biomechanics of Human Motion (Lab Techniques)
- KIN 511 Biomechanical Factors of Human Movement
- KIN 420 Advanced Exercise Physiology
- KIN 321 Biomechanics of Human Movement
- KIN 313 Motor Behavior
- KIN 300 Musculoskeletal Anatomy
- KIN 105D Beginning Bowling (Summer)
- KIN 105C Beginning Golf (Summer)
- KIN 104B Beginning Weight Training (Summer)
- KIN 101 Concepts of Physical Fitness (Summer)

Louisiana State University

- KIN 3514 Biomechanics of Human Movement
- KIN 1420 Fundamentals of Softball and Track and Field
- KIN 1126 Beginning Bowling
- KIN 1125 Beginning Golf

GRADUATE STUDENTS (MSU):

Masters:

- Gouresh Powar, fulfilling requirements for the M.S. in Exercise Physiology, Master's Thesis Committee **Chair** (2022-present)

- Tyler Blocker, fulfilling requirements for the M.S. in Exercise Physiology, Master's Thesis Committee **Chair** (2022-present)
- Suman Mithani, fulfilled requirements for the M.S. in Exercise Physiology, Master's Thesis Committee **Chair** (2022)
- Himadri Patel, fulfilling requirements for the M.S. in Exercise Physiology, Master's Thesis Committee **Chair** (2021-present)
- Suchi Prajapati, fulfilling requirements for the M.S. in Exercise Physiology, Master's Thesis Committee Member (2021-present)
- Marissa Lopez, fulfilled requirements for the M.S. in Exercise Physiology, Master's Thesis Committee Member (2021-2022)
- Harsh Patel, fulfilled requirements for the M.S. in Exercise Physiology, Master's Thesis Committee Member (2021-2022)
- Pablo Cruz, fulfilled requirements for the M.S. Exercise Physiology, Master's Thesis Committee Member (2021)
- Natalie Delgadillo, fulfilled requirements for the M.S. Exercise Physiology, Master's Thesis Committee Member (2021)
- Hayden West, fulfilled requirements for M.S. Exercise Physiology, Master's Thesis Committee Member (2021)
- Zach Gregg, fulfilled requirements for M.S. Exercise Physiology, Master's Thesis Committee Member (2020)

GRADUATE STUDENTS (SIUC):

Masters:

- Anthony Hudson, working on fulfilling requirements for M.S. Ed. (2017 – 2019) **Research Chair**
- Secily Moss, fulfilled requirements for M.S. Ed. (2016 – 2018) **Research Chair**
- Kurt Van Kurken, working on fulfilling requirements for M.S. Ed. (2015 – present) - transferred
- Adrienne Bosworth, fulfilled requirements for M.S. Ed. (2015 – 2017) **Research Chair**
- Masahiro Yamada, fulfilled requirements for M.S. Ed., Master's Thesis Committee (2014 – 2016).
- Deborah Storm, fulfilled requirements for M.S. Ed. (2013 – 2015)
- Yang Hu, fulfilled requirements for M.S. Ed. (2013 – 2016)
- Laura Miller, fulfilled requirements for M.S. Ed. (2013 – 2015) **Research Chair**
- Shikha Vij, fulfilled requirements for M.S. Ed. (2013 – 2015) **Research Chair**
- Alejandro Vial, fulfilled requirements for M.S. Ed. (2012 – 2014) **Research Chair**
- Navya Soma, fulfilled requirements for M.S. Ed. (2012 – 2015) **Research Chair**
- Maryellen Hole, fulfilled requirements for M.S. Ed. (2011 – 2013), **Research Chair**
- Micah Larson, fulfilled requirements for M.S. Ed (2011 – 2013), **Research Chair**
- Candace-Julianne Campbell, working on fulfilling requirements for M.S. Ed. (2011 – 2013) (withdrew from university in May 2013)
- Margaret Morrissy, fulfilled requirements for M.S. Ed. (2009-2011)

- Russell Nolan, fulfilled requirements for M.S.Ed., Master's Thesis Committee Member (2009-2011).
- Chelsea Bradley, fulfilled requirements for M.S. Ed. (2009-2010)
- Jacob Clough, working on fulfilling requirements for M.S. Ed. (2008-2011), withdrew from university in January 2011
- Chidiriyai Enyia, fulfilled requirements for M.S. Ed., **Research Chair** (2008-2014)
- Jeffery Denny, fulfilled requirements for M.S. Ed., (2007-2009), **Research Chair**

Ph.D.:

- Richard Turner, Rehabilitation Institute, Dissertation Committee Member (2018-2019), fulfilled requirements for Ph.D.
- Sarah Muno, Department of Anthropology, External Dissertation Committee Member (2010 – 2018), fulfilled requirements for Ph.D.
- Donald Howard, Sports Medicine and Physical Therapy Center, Distance Learning Doctoral Program through Rocky Mountain University of Health Professions, Committee Member (2011 – 2012), fulfilled requirements of Ph.D.
- David Spironi, Department of Kinesiology, Dissertation Committee Member, fulfilled requirements of Ph.D. in Department of Kinesiology (2007) (extended from mid-1990s)

ORGANIZATIONAL CONTRIBUTIONS:

2018	Abstract reviewer for the American Society of Biomechanics 42 nd Conference annual meeting, Rochester, MN
2017	Abstract reviewer for the American Society of Biomechanics 41 st Conference annual meeting, Denver, CO
2016	Midwest Chapter of the American College of Sports Medicine moderator for a symposium entitled, Best practices for using accelerometer-based physical activity monitors to assess PA in intervention studies: past, current, and future, Fort Wayne, IN
2016	EIU Committee Member to select the winning institution of the ActiveU Competition for the Midwest Chapter of the American College of Sports Medicine
2016	Abstract reviewer for the American Society of Biomechanics 40 th Conference annual meeting, Raleigh, NC
2015	Midwest Chapter of the American College of Sports Medicine moderator for a symposium of CEPA sponsored case studies, Fort Wayne, IN
2015	EIU Committee Member to select the winning institution of the ActiveU Competition for the Midwest Chapter of the American College of Sports Medicine
2015	Abstract reviewer for the Midwest Chapter of the American College of Sports Medicine annual meeting

- 2014 Midwest Chapter of the American College of Sports Medicine moderator for a symposium entitled, Training Sports Officials, Merrillville, IN
- 2014 Abstract reviewer for the Midwest Chapter of the American College of Sports Medicine annual meeting
- 2014 EIU Committee Member to select the winning institution of the ActiveU Competition for the Midwest Chapter of the American College of Sports Medicine
- 2013 Midwest Chapter of the American College of Sports Medicine, moderator for symposium titled, *Application of VO2 max testing in the Clinical Cardiology Setting: Pediatrics vs. Adults*, Merrillville, IN
- 2011 American College of Sports Medicine, Biomechanics Interest Group: Judge for Student Travel and Research Awards, as well as Lifetime Achievement Award

JOURNAL EDITOR:

2018 – Present Journal of Physical Medicine and Rehabilitation

EDITORIAL BOARD MEMBER:

2020 – Present Journal of Health, Sports, and Kinesiology

2016 – Present Sports Medicine & Rehabilitation Journal

2009 – Present Journal of Electromyography & Kinesiology

JOURNAL REVIEWER:

2022 – Present Journal of Clinical Medicine

2022 – Present Muscles

2022 – Present Journal of Motor Learning & Development

2019 – Present Frontiers in Sport and Active Living

2018 – Present Transactions on Neural Systems and Rehabilitation Engineering

2018 – Present Journal of Anatomy

2018 – Present Journal of Neurophysiology

2018 – Present International Journal of Environmental Research and Public Health

2017 – Present International Journal of Molecular Sciences

2017 – Present Healthcare

2017 – Present Sports

2016 – Present Journal of Orthopaedic Research

2016 – Present Physiotherapy Theory and Practice

2016 – Present Journal of Motor Behavior

2014 – Present Applied Ergonomics

2014 – Present Applied Biomechanics

2014 – Present Computers in Biology and Medicine

2013 – Present Journal of Sport and Health Science

2013 – Present Scandinavian Journal of Medicine & Science in Sports

2013 – Present Kinesiology Journal

2013 – Present Annals of Biomedical Engineering

2012 – Present	PLoS One
2011 – Present	Sensors
2011 – Present	Chiropractic and Manual Therapies
2011 – Present	Journal of Applied Biomechanics
2011 – Present	American Journal of Physical Medicine & Rehabilitation
2010 – Present	Clinical Biomechanics
2008 – Present	Research Quarterly for Exercise and Sport
2008 – Present	Medicine and Science in Sport and Exercise
2006 – Present	Journal of Electromyography & Kinesiology

BOOK REVIEWER:

2012	Basis and Applied Sports Kinesiology, Connolly; Lippincott, Williams & Wilkins
2007	Applied Biomechanics: Concepts and Connections, McLester and St. Pierre; Thomson-Wadsworth
2007	Manual of Structural Kinesiology, Seventeenth Edition, Floyd; McGraw-Hill

CORPORATE AFFILIATION:

- Clipius Technologies (2008-2010) – a biomedical engineering consulting firm
- Human Performance Consulting (2005 – 2008) – a sports performance company

RECREATIONAL STUDENT ORGANIZATION ADVISOR (SIUC):

2006 – 2014	Organization of Sport and Exercise Science
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CONTRIBUTIONS TO UNIVERSITY (MSU):

2022	Faculty reviewer for undergraduate EURECA summer proposals
2022	Faculty judge for the spring Undergraduate Research and Creative Arts Forum
2021	Faculty judge for the fall Undergraduate Research and Creative Arts Forum

CONTRIBUTIONS TO UNIVERSITY (SIUC):

2013	Faculty judge for the Spring Undergraduate Research Forum
2010	Faculty judge for the Spring Undergraduate Research Forum

COMMITTEES (MSU Texas):

2023 – Present	Digital Portfolio Workgroup Member (Ad Hoc committee)
2022 – Present	Readmissions Committee Member
2022 – 2023	Search Committee Chair: Assistant Professor of Exercise Physiology
2021 – Present	College of Health Science and Human Services Conduct Appeals Committee
2021 – 2022	Search Committee Member: Athletic Training Instructor
2020 – 2022	Faculty Senate representative (2 year term)
2019 – 2020	Search Committee Member: Athletic Training Instructor

COMMITTEES (SIUC):

- 2019 Faculty Senate representative (3 year term)
- Undergraduate Educational Policy Committee Co-Chair
- 2017 – 2018 College Academic Affairs Committee Chair
- 2016 – 2017 College Academic Affairs Committee member
- 2016 – 2017 University Library Affair Committee member
- 2016 – 2017 Faculty representative for the University Academic Calendar Committee
- 2016 Department Search Committee member: Exercise Science Position
- 2015 Search Committee Member: College of Education and Human Services Dean
- 2014 Search Committee Member: College of Education and Human Services Associate Dean
- 2013 – 2015 Graduation Appeals Committee
- 2012 – 2014 College Tenure and Promotion Committee Member
- 2012 – 2013 University Elections Committee
- 2010 – 2012 Chair: Chancellor's Advisory Review Board Committee
- 2009 – 2010 Department Search Committee Member: Athletic Training Coordinator
- 2008 – 2010 College Advisory Committee Member
- 2007 – 2008 Chair, Department Search Committee: Pedagogy/Motor Behavior
- 2007 – 2008 College sub-committee member: Faculty Retention
- 2006 – 2007 Advisory committee member: Physical Therapy Assistant Program
- 2006 – 2007 Search Committee Member: Exercise Physiology Position
- 2006 – 2007 Chair, Department of Kinesiology Image Promotion Committee
- 2004 – 2005 Graduate Committee (Department of Kinesiology, LSU)
- 2003 – 2004 Teaching Excellence Awards Committee (Department of Kinesiology, LSU)