

Curriculum Vitae

Jennifer M. Yentes, Ph.D.

Professional Address:

Texas A&M University
Department of Health & Kinesiology
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Education:

Bachelor of Arts in Kinesiology, emphasis in Biomechanics 2000

Minor: Nutrition

University of Northern Colorado, Greeley, Colorado

Master of Science in Kinesiology 2006

California State University, Fullerton, California

Master's Thesis: Gait and secondary task performance in subjects with and without diabetic neuropathy

Doctor of Philosophy in Biomechanics/Motor Control 2013

University of Nebraska Medical Center, Omaha, Nebraska

Research Focus: Gait mechanics of pathological populations, cognition and gait control, human movement variability, coupling of biological rhythms

Dissertation: Functional outcomes associated with gait in patients with chronic obstructive pulmonary disease

Faculty Academic Appointments:

January 2013 – August 2014	Instructor, School of Health, Physical Education and Recreation University of Nebraska, Omaha, Nebraska
August 2014 – December 2015	Assistant Professor, School of Health, Physical Education and Recreation University of Nebraska, Omaha, Nebraska
January 2016 – August 2020	Assistant Professor, Department of Biomechanics University of Nebraska, Omaha, Nebraska
August 2020 – May 2021	Associate Professor with tenure, Department of Biomechanics University of Nebraska, Omaha, Nebraska
June 2021 – August 2022	Associate Professor, Department of Health & Kinesiology Texas A&M University, College Station, Texas
June 2021 –	Graduate Faculty, Department of Health & Kinesiology Texas A&M University, College Station, Texas
September 2022 –	Associate Professor with tenure, Department of Kinesiology & Sport Management Texas A&M University, College Station, Texas

Other Academic Appointments:

September 2019 – August 2020 Associate Director, Nonlinear Analysis Core, Center for Research in Human Movement Variability
University of Nebraska, Omaha, Nebraska

August 2020 – May 2021	Director, Nonlinear Analysis Core, Center for Research in Human Movement Variability University of Nebraska, Omaha, Nebraska
January 2021 –	Scientific Advisory Board RespirAI Medical, Tel Aviv, Israel
July 2021 –	Affiliated Faculty, Texas A&M Center for Population Health and Aging Texas A&M University, College Station, Texas
July 2021 –	Affiliated Faculty, Center for Remote Health Technologies & Systems Texas A&M University, College Station, Texas
September 2021 – March 2022	Affiliated Faculty, Sydney and JL Huffines Institute for Sports Medicine and Human Performance Texas A&M University, College Station, Texas
March 2022 – August 2022	Assistant Director, Sydney and JL Huffines Institute for Sports Medicine and Human Performance Texas A&M University, College Station, Texas
August 2022 –	Acting Director, Sydney and JL Huffines Institute for Sports Medicine and Human Performance Texas A&M University, College Station, Texas

Academic and Research Experience:

September 2004 – May 2005	Research assistant, “FallProof™” (PI: Debra Rose, PhD) California State University, Fullerton, California
February 2005 – October 2005	Without compensation appointment (WOC), Research intern Department of Veterans’ Affairs, Los Angeles, California
September 2005 – January 2006	Research independent study, “Falls Clinic” (PI: Karen Perell, PhD) California State University, Fullerton, California
October 2005 – July 2008	Health science specialist (PI: Meika Fang, MD) Department of Veterans’ Affairs, Los Angeles, California
July 2008 –	Without compensation appointment (WOC), Research staff Department of Veterans’ Affairs, Omaha, Nebraska
July 2008 – December 2012	Graduate research assistant, Nebraska Biomechanics Core Facility, University of Nebraska, Omaha, Nebraska
June 2010 – December 2012	Laboratory manager, Nebraska Biomechanics Core Facility University of Nebraska, Omaha, Nebraska

Grant Support:

Current Projects

External

Internal

Pilot Project Grant, Markvicka/Yentes (co-PIs) University of Nebraska Collaboration Seed Grant <i>Wearable bioelectronic device to detect changes in health status</i> \$150,000	7/1/20-6/30/23
Tech Transfer Pilot Grant, Markvicka (PI) Great Plains IDeA-CTR Pilot Grant <i>Multimodal biosensor for home diagnostic use</i> Role: Collaborator \$50,000	7/1/22-6/30/23

R3 (Renew, Revise, and Resubmit), Yentes (PI) 4/15/22-5/31/23
College of Education and Human Development
\$27,356

Completed Projects

External

NIH COBRE Phase I, P20 GM109090, Stergiou (PI) 10/31/14 – 4/30/19
Junior Investigator PI Sub Project #5348
Breathing and walking coupling variability in COPD
\$949,070
Role: Project PI

NIH COBRE Phase II, P20 GM109090, Stergiou (PI) 9/1/19 – 4/30/21
NIH/NIGMS
Harnessing movement variability to treat and prevent motor related disorders
Role: Nonlinear Analysis Core Director
\$96,818

Innovation for Mission-Essential Research IRAD, Markvicka/Yentes/Rennard (co-PIs) 8/16/21-9/16/22
National Strategic Research Institute, Department of Defense
Personal, Wearable Sensor Platform for Detecting and Localizing Environmental and Chemical Weapons of Mass Destruction
\$25,000

SPiRE Grant, I21 RX003294, Romberger (PI) 1/1/20-9/30/22
Department of Veterans' Affairs
Improving exercise capacity in chronic obstructive pulmonary disease patients through uphill walking
Role: Co-I
\$200,000

Internal

Pilot Project Grant, Yentes (PI) 9/1/13 – 5/31/14
NASA Nebraska EPSCoR Mini Grant
Entropy in large data sets
\$20,000

Pilot Project Grant, Yentes (PI) 6/1/14 – 5/31/15
University of Nebraska at Omaha, Peter Kiewit Institute
Monitoring dermal blood flow through video magnification
\$13,223

Pilot Project Grant, Yentes (PI) 9/1/14 – 8/31/15
NASA EPSCoR Mini Grant
A novel and simple tool to measure health
\$16,780

Pilot Project Grant, Coleman (PI) 11/1/14 – 4/30/16
COBRE Pilot Funding
Understanding movement variability among patients on antiretroviral treatment for HIV
\$50,000

Role: Co-I Pilot Project Grant, Yentes (PI) UNeTech <i>Reliability of a portable device to measure respiratory and step rates</i> \$100,000	7/1/15 – 12/31/18
Pilot Project Grant, Rosen (PI) NIH COBRE Pilot Funding <i>Assessment of movement quality and cortical activation during dual-task perturbations in those with chronic ankle instability</i> \$38,000 Role: Co-I	10/1/15 – 4/30/16
Pilot Project Grant, Yentes (PI) UNeMed / Nebraska Research Initiative <i>Reliability of a portable device to measure respiratory and step rates</i> \$76,410	3/7/16 – 5/31/17
Pilot Project Grant, Yentes (PI) University of Nebraska at Omaha / University Committee on Research and Creative Activity <i>Assessing standard balance tests in COPD patients to determine the best prediction of fall prevalence</i> \$5,000	7/1/16 – 12/31/16
Pilot Project Grant, Rosen (PI) NIH COBRE Pilot Funding <i>Sensory organization and movement variability in those with ankle instability</i> \$41,348 Role: Co-I	8/1/16 – 7/31/17
Pilot Project Grant, Boron/Yentes/Venema (co-PIs) Nebraska Research Initiative/ Collaboration Initiative Planning Generation Grant <i>Contributions of individual differences and context on dual-task performance in adults: Maintaining independence and well-being in older adulthood</i> \$20,000 Role: Co-PI	7/1/18 – 6/30/19
Pilot Project Grant, Graeff-Armas/Yentes/Hanson (co-PIs) University of Nebraska System Collaboration Planning Grant <i>Vitamin D treat to target in chronic kidney disease</i> \$20,000 Role: Co-PI	7/1/19 – 12/31/20
Pilot Project Grant, Yentes/Boron/Venema (co-PIs) Science, Engineering, and Mathematics Initiative, University of Nebraska at Omaha and Medical Center <i>Resiliency, reserve, and fatigability: Insights into fall risk</i> \$100,000	7/1/19-12/31/21
Pilot Project Grant, Markvicka (PI) Great Plains IDeA-CTR COVID-19 Rapid Response Grant	11/1/20-6/30/22

A wearable, battery-free screening system for SARS-CoV-2 infection

\$50,000

Role: Co-I

Pilot Project Grant, Burcal/Yentes (co-PIs)

7/1/21-6/30/22

Great Plains IDeA-CTR Pilot Grant

Avert: Non-invasive, posturographic discernment of injured vs non-injured states

\$67,419

Trainee

Fellowship, Wai-Yan Liu (PI), CIRO Horn, Netherlands

9/1/16-12/31/16

European Respiratory Society Short-Term International Fellowship

Role: Advisor

Graduate Fellowship, Jordan Wickstrom (PI), University of Nebraska at Omaha

8/1/17-7/31/18

Buffett Early Childhood Institute

\$25,000

Role: Advisor

Graduate Fellowship, Farah Fallahtafi (PI), University of Nebraska at Omaha

8/15/20-5/15/21

University of Nebraska Presidential Fellowship

\$18,000

Role: Advisor

Undergraduate Student Research Initiative, Yentes (PI)

9/1/21-5/16/22

College of Education and Human Development, Texas A&M University

\$2,625

Pending Projects

External

NSF Smart and Connected Health, Markvicka/Yentes/Rennard (Co-PIs)

8/1/22-7/31/26

SCH: Multimodal wearable device with distributed AI framework to access physiologic connectivity for health status

\$239,282 (Yentes portion)

Role: Co-PI

Study Sections:

National

2015: National Science Foundation Graduate Fellowship Program Review

2016: National Science Foundation Graduate Fellowship Program Review

2020: Department of Veterans' Affairs, Special Emphasis Panel/Scientific Review Group 2021/01 RRDS

2021: Department of Veterans' Affairs, Special Emphasis Panel/Scientific Review Group 2021/08 RRDS

2021: Department of Veterans' Affairs, Special Emphasis Panel/Scientific Review Group 2022/01 RRDS

2022: Department of Veterans' Affairs, Special Emphasis Panel/Scientific Review Group 2022/08 RRDS

2022: National Institutes of Health, Special Emphasis Panel/Scientific Review Group 2022/10 ZHL1 CSR-F (O2) B

Local/Regional

2015: Graduate Research and Creative Activity Grant Review, University of Nebraska at Omaha

2016: Graduate Research and Creative Activity Grant Review, University of Nebraska at Omaha

2016: Fund for Undergraduate Scholarly Excellence (FUSE), University of Nebraska at Omaha

Intellectual Property/Patents:

1. “Variability and coupling of biorhythms to solve problems in COPD” – New Invention Notification No. 14023 filed on 11/13/13
2. “Monitoring system for COPD” – Provisional Patent Docket No. 14023P1, Serial No. 62/042,465 filed on 8/27/14
3. “Wearable, remote monitoring device for locomotor-respiratory coupling” – New Invention Notification No. 16008 filed on 7/15/15
4. “System and techniques for estimating the severity of chronic obstructive pulmonary disease in a patient” – PCT patent application No. 14023PCT, Serial No. PCT/US2015/044048 filed on 8/6/15
5. “Device and method for detection of pulmonary and cardiac disorders” – Provisional Patent Docket No. 19056P, Serial No. 62/816,378 filed on 3/11/19
 - a. 19056P2, Serial No. 63/158,465 filed on 3/9/21
6. “EARLI (Exacerbation Automatic Report via Locomotor-biological systems Information)” – New Invention Notification No. 19056 filed on 3/8/19
7. “A Passive Near Real Time Diagnostic System to Indicate Transitions from Health to Disease” – New Invention Notification No. 21017 filed on 8/27/20
8. “Systems, Methods, and Media for Predicting a Physiological State of a Subject Using One or More Chemical Sensors” – Provisional Patent Serial No. 63/243,974 filed on 9/14/21

Publications:

Quantitative Metrics

h-index = **17**

i10-index = **25**

NIH iCite RCR (weighted) = **71.91**

[Complete PubMed Bibliography](#)

[Google Scholar](#)

[ORCID](#)

Peer-Reviewed Papers (Note: * indicates corresponding author; IF indicates impact factor)

1. Yentes JM & Perell KL. Diabetic peripheral neuropathy and exercise. *Clinical Kinesiology*, 60(3): 25-32, 2006.
2. Yentes JM, Perell KL, Barr M, Fang MA. Cognitive processing during gait and balance: A Review. *Clinical Kinesiology*, 61(3): 21-24, 2007.
3. Yentes JM, Elrod MP, Perell KL. Predicting fall risk with plantar pressure equipment in individual with diabetes. *Clinical Kinesiology*, 61(1): 1-6, 2007.
4. Aragaki DR, Nasmyth MC, Schultz SC, Nguyen GM, Yentes JM, Kao K, Perell KL, Fang MA. Immediate effects of contralateral and ipsilateral cane use on normal adult gait: A pilot study. *PM&R*, 1(3): 208-213, 2009. [IF: 1.850]
5. Yentes JM, Sayles H, Meza J, Mannino DM, Rennard SI, Stergiou N. Walking abnormalities are associated with COPD: An investigation of the NHANES III dataset. *Respiratory Medicine*, 105: 80-87, 2011. [IF: 3.23]
6. Vallabhajosula S, Yentes JM, Stergiou N. Frontal joint dynamics when initiating stair ascent from a stand versus a walk, *Journal of Biomechanics*, 45: 609-613, 2012. [IF: 2.431]
7. Fang MA, Heiney C, Yentes JM, Harada ND, Masih S, Perell-Gerson KL. Clinical and spatiotemporal gait effects of canes in hip osteoarthritis, *PM&R*, 4: 30-36, 2012. [IF: 1.850]
8. Vallabhajosula S, Yentes JM, Momcilovic M, Blanke D, Stergiou N. Do lower-extremity joint dynamics change when stair negotiation is initiated with self-selected comfortable gait speed? *Gait & Posture*, 35(2): 203-208, 2012. [IF: 2.414]

9. Wurdeman SR, Yentes JM, Huben NB, Stergiou N. An unstable rocker bottom shoe alters external work. *Footwear Science*, 4(2): 153-158, 2012.
10. Yentes JM, Huisinga JM, Myers SA, Pipinos I, Johanning J, Stergiou N. Pharmacological treatment of intermittent claudication does not have a significant effect on gait impairments during claudication pain. *Journal of Applied Biomechanics*, 28(2): 184-191, 2012. [IF: 1.31]
11. Huisinga JM, Yentes JM, Filipi ML, Stergiou N. Postural control strategy during standing is altered in patients with multiple sclerosis. *Neuroscience Letters*, 524(2):124-128, 2012. [IF: 2.180]
12. Yentes JM, Hunt N, Schmid KK, Kaipust JP, McGrath D, Stergiou N. The appropriate use of approximate entropy and sample entropy with short data sets. *Annals of Biomedical Engineering*, 41(2):349-365, 2013. PMC6549512. [IF: 3.405]
13. Harada N, Fong S, Heiney C, Yentes JM, Perell-Gerson KL, Fang MA. Evaluation of two cane instruments in older adults with knee osteoarthritis. *Journal of Rehabilitation Research and Development*, 51(2):275-284, 2014. [IF: 1.043]
14. Yentes JM*, Rennard SI, Blanke D, Stergiou N. The effect of a short duration, high intensity exercise intervention on gait biomechanics in patients with COPD: Findings from a pilot study. *Chronic Obstructive Pulmonary Diseases: Journal of The COPD Foundation*, 1(1):133-147, 2014. PMC5559150. [IF:1.42]
15. Yentes JM, Kurz MJ, Stergiou N. Lower extremity injury in female basketball players is related to a large difference in peak eversion torque between barefoot and shod conditions. *Journal of Sport and Health Sciences*, 3:227-232, 2014. [IF: 2.14]
16. Yentes JM*, Schmid KK, Blanke D, Romberger DJ, Rennard SI, Stergiou N. Gait mechanics in patients with chronic obstructive pulmonary disease. *Respiratory Research*, 16(1):31, 2015. PMC4351940. [IF: 3.841]
17. Fang M, Heiney C, Yentes JM, Harada ND, Masih S, Perell-Gerson KL. Effects of contralateral versus ipsilateral cane use on gait in people with knee osteoarthritis. *PM&R*, 7(4):400-406, 2015. [IF: 1.850]
18. Chien JC, Yentes JM, Stergiou N, Siu J. K-C. The effect of walking speed on gait variability in healthy, middle-aged and elderly individuals. *Journal of Physical Activity, Nutrition and Rehabilitation*, 2015.
19. Myers SA, Huben NB, Yentes JM, McCamley J, Lyden E, Stergiou N, Pipinos II, Johanning JM. Spatio-temporal changes post treatment in peripheral arterial disease. *Rehabilitation Research and Practice*, 2015, 124023, 2015. PMC4681815.
20. Rosen AB, Than N, Smith WZ, Yentes JM, McGrath ML, Maerlender AB. Attention is associated with postural control in those with chronic ankle stability. *Gait & Posture*, 54:43-38, 2017. PMC5481467. [IF: 2.414]
21. Yentes JM*, Rennard SI, Schmid KK, Blanke D, Stergiou N. Patients with chronic obstructive pulmonary disease walk with altered step time and step width variability as compared with healthy control subjects. *Annals of the American Thoracic Society*, 14(6):858-866, 2017. PMC5566305. [IF: 4.006]
22. McCamley JD, Pisciotta EJ, Yentes JM, Wurdeman SW, Rennard SI, Pipinos II, Johanning JM, Myers SA. Gait deficiencies associated with peripheral artery disease are different than chronic obstructive pulmonary disease. *Gait & Posture*, 57:258-264, 2017. PMC5563974. [IF: 2.414]
23. Wiens C, Denton W, Schieber M, Hartley R, Marmelat V, Myers S, Yentes J*. Reliability of a feedback-controlled algorithm dependent on the user's behavior. *IEEE Xplore; IEEE International Conference on Electro Information Technology*, 545-550, 2017. PMC5790169. [IF: 9.107]
24. McCamley J, Denton W, Lyden E, Yentes JM*. Measuring coupling of rhythmical time series using cross sample entropy and cross recurrence quantification analysis. *Computational and Mathematical Methods in Medicine*, 2017, 7960467, 2017. PMC5671691. [IF: 1.545]
25. Raffalt PC, Yentes JM*. Introducing statistical persistence decay – A quantification of stride-to-stride time interval dependency in human gait. *Annals of Biomedical Engineering*, 46(1):60-70, 2018. PMC5756114. [IF: 3.405]

26. Yentes JM*, Denton W, McCamley J, Raffalt PC, Schmid KK. Effect of parameter selection on entropy calculation for long walking trials. *Gait & Posture*, 60:128-124, 2018. PMC5809187. [IF: 2.414]
27. McCamley J, Denton W, Arnold A, Raffalt PC, Yentes JM*. On the calculation of sample entropy using continuous versus discrete data sets. *Entropy*, 20(10):764, 2018. PMC6402504. [IF: 2.305]
28. Raffalt PC, Denton W, Yentes JM*. On the choice of multiscale entropy algorithm of complexity in gait data. *Computers in Biology and Medicine*, 103:93-100, 2018. PMC6957257. [IF: 2.115]
29. Rock CG, Marmelat V, Yentes JM, Siu KC, Takahashi KZ. Interaction between step-to-step variability and metabolic cost of transport during human walking. *Experimental Brain Research*, 221:181834, 2018. PMC6262764. [IF: 2.395]
30. Wiens C, Denton D, Scheiber M, Marmelat V, Myers S, Yentes J*. Walking speed and spatiotemporal step mean measures are reliable during feedback-controlled treadmill walking; however, spatiotemporal step variability is not reliable. *Journal of Biomechanics*, 83:221-226, 2019. PMC6541024. [IF: 2.431]
31. Rosen AB, Yentes JM, McGrath ML, Maerlender AC, Myers SA, Mukherjee M. Alterations in cortical activation in individuals with chronic ankle instability during single-limb postural control. *Journal of Athletic Training*, 54(6):718-726, 2019. PMC6602391. [IF: 2.478]
32. Raffalt PC, McCamley J, Denton W, Yentes JM*. Sampling frequency influences sample entropy of kinematics during walking. *Medical & Biological Engineering and Computing*, 57(4):759-764, 2019. PMC6450768. [IF: 1.82]
33. Yentes JM*, Denton W, Samson K, Schmid KK, Wiens C, Rennard SI. Energy efficient physiologic coupling of gait and respiration is altered in chronic obstructive pulmonary disease. *Acta Physiologica*, 225(4):e13217, 2019. PMC6416080. [IF: 5.97]
34. Leeder T, Fallahtafti F, Schieber M, Myers SA, Boron JB, Yentes JM*. Optic flow improves step width and length in older adults while performing dual task. *Aging Clinical and Experimental Research*, 31(8):1077-1086, 2019. PMC6486470. [IF: 2.121]
35. Wickstrom JF, Armas LA, Sayles HR, Yentes JM*. The likelihood of self-reporting balance problems in those with advanced chronic kidney disease, slow gait speed, or low vitamin D. *Journal of Renal Nutrition*, 29(6):490-497, 2019. PMC6586542. [IF: 2.651]
36. Fallah Tafti F, Curtze C, Yentes JM*. Chronic obstructive pulmonary disease patients increase medio-lateral stability and limit changes in antero-posterior stability to curb energy expenditure. *Gait and Posture*, 75:142-148, 2020. DOI: 10.1016/j.gaitpost.2019.10.025. PMC6889081. [IF: 2.414]
37. Baudendistel S, Rosen A, Grindstaff TL, Yentes JM*. Bimanual load alters sway patterns and step width. *Applied Ergonomics*, 84:103030, 2020. PMC7001146. [IF: 2.61]
38. Liu WY, Schmid KK, Meijer K, Wouters EFM, Spruit MA, Yentes JM*. Subjects with COPD walk with less consistent organization of movement patterns of the lower extremity. *Respiratory Care*, 65(2):158-168, 2020. PMC7055489. [IF:2.066]
39. Raffalt PC, Yentes JM. On the application of entropic half-life and statistical persistence decay for quantification of time dependency in human gait. *Journal of Biomechanics*, 108:109893, 2020. PMC7871423. [IF: 2.72]
40. Yentes JM*, Fallahtafti F, Denton W, Rennard SI. COPD patients have a restricted breathing pattern that persists with increased metabolic demands. *COPD: Journal of Chronic Obstructive Pulmonary Disease*, 17(3):245-252, 2020. PMC7332397. [IF: 2.576]
41. McGrath ML, Yentes JM, Rosen AB. Cognitive loading produces similar changes in postural stability in patients with chronic ankle instability and controls. *Athletic Training and Sports Health Care*, 12(6):249-256, 2020.
42. FallahTafti F, Watson K, Boron JB, Myers SA, Schmid KK, Yentes JM*. Strength of plantar- and dorsiflexors mediates step regularity during dual-motor task in a cross-sectional cohort of older and younger adults. *Journal of Geriatric Physical Therapy*, 43(4):E45-52, 2020. PMC7295662. [3.396]

43. FallahTafti F, Boron JB, Venema DM, Kim HJ, [Yentes JM*](#). Task specificity impacts dual-task interference in older adults. *Aging Clinical and Experimental Research*, 33(3):581-587, 2021. PMC7644578. [3.638]
44. [Yentes JM*](#), Raffalt PC. Entropy analysis in gait research – methodological recommendation and current observations. *Annals of Biomedical Engineering*, 49(3):979-990, 2021. PMC8051436. [IF:3.934]
45. Fallahtafti F, Gonabadi AM, Samson K, [Yentes JM*](#). Margin of stability may be larger and less variable during treadmill walking versus overground. *Biomechanics*, 1(1):118-130, 2021. PMC8372237.
46. Fallahtafti F, Wurdeman S, [Yentes JM*](#). Sampling rate influences the regularity analysis of temporal domain measures of walking more than spatial domain measures. *Gait & Posture*, 88:216-220, 2021.
47. Sado T, Motz Z, [Yentes JM](#), Mukherjee M. Passive exoskeleton assisted treadmill walking reduces duration and synchrony of inter-limb coordination. *Frontiers in Physiology, section Fractal Physiology*, 13:916185, 2022. PMC9234753.
48. [Yentes JM*](#), Liu WY, Zhang K, Markvicka E, Rennard SI. Updated perspectives on the role of biomechanics in COPD: considerations for the clinician. *International Journal of Chronic Obstructive Pulmonary Disease*, 17:2653-2675, 2022.
49. Raffalt PC, [Yentes JM](#), Spedden ME. Isometric force complexity may not fully originate from the nervous system. (Under review with *Human Movement Science*).
50. Motz Z, Sado T Denton W, [Yentes JM](#), Fayad P, Mukherjee M. Nonlinear methods are able to show distinct patterns of inter-limb coordination in chronic stroke survivors. (Under review with *Neurorehabilitation & Neural Repair*).
51. Raffalt PC, [Yentes JM](#), Freitas S, Vaz JP. Calculating sample entropy from isometric torque signals: methodological considerations and recommendations. (Under review with *Medical & Biological Engineering & Computing*).
52. Liu WY, Spruit MA, Delbressine J, Willems P, [Yentes JM](#), Bruijn S, Franssen F, Wouters E, Meijer K. Alterations in stride-to-stride fluctuations in patients with chronic obstructive pulmonary disease during the self-paced treadmill 6-minute walk test. (Under review with *PLOSOne*).

Editorials/Letters to the Editor

1. Mukherjee MM, [Yentes JM*](#). Movement variability: A perspective on success in sports, health, and life. *Scandinavian Journal of Medicine and Science in Sports*, 28(3):758-759, 2018. PMC5831508. [IF:3.623]
2. [Yentes JM*](#), Raffalt PC, Vaz JR. Letter to the editor: Methodological considerations for a non-linear analysis of running in the heavy and severe intensity domains. *European Journal of Applied Physiology*, 121(7):2101-2102, 2021. DOI: 0.1007/s00421-021-04684-7.

Blog and Newsletter Articles

1. Myers SA, [Yentes JM](#). Clinical application of nonlinear dynamics: Improving patient outcomes using variability. *Society for Chaos Theory in Psychology & Life Sciences Newsletter*, 21(1):5-6, 2013.
2. [Yentes JM](#). [Your mom was right, variety is the spice of life](#). *International Society of Posture and Gait Research Website Blog*. November 16, 2018.
3. [Yentes JM](#). [Reframe your job search](#). *International Women in Biomechanics Website Blog*. January 12, 2022.
4. [Yentes JM](#). [Take my advice, start early](#). *International Women in Biomechanics Website Blog*. January 19, 2022.
5. [Yentes JM](#), Bagher P, Case A. [There is not just one way to negotiate](#). *International Women in Biomechanics Website Blog*. January 26, 2022.
6. Ebrahimi A, Banks C, Daniels K, [Yentes J](#). [#2 STEM Diversity and Public Policy](#). *International Women in Biomechanics Website Blog*. September 21, 2022.
7. Fradet L, [Yentes JM](#). [Analyse dynamique non linéaire appliquée au mouvement humain et à la posture](#). *Société de Biomécanique le Blog*. October 3, 2022.

Papers in Progress

1. Vijayan V, Taylor M, Yentes J, Bigelow K. The effect of input parameters on DFA analysis of postural control data: data length significantly affects results.
2. Wiens C, Marmelat V, Yentes JM*. Synchronization of breathing and walking to external cues.
3. Denton W, Mukherjee M, Yentes JM*. Coordination during uphill walking.
4. Schieber M, Yentes JM, Boron JB, Myers SA. Coordination of verbal response to gait cycle in older adults while dual tasking.

Book Chapters

1. Yentes JM. Entropy. In N. Stergiou (Ed.), *Nonlinear Analysis for Human Movement Variability*. CRC Press. 2016. ISBN 9781498703321.

Abstracts in Referred Journals

1. Firooz N, Taylor CE, Nouvong A, Masih S, Yentes JM, Perell KL, Fang MA. Effects of footwear on medial knee osteoarthritis. *Arthritis and Rheumatology*, 54(suppl): S670, 2006.
2. Perell-Gerson KL, Heiney C, Harada ND, Yentes JM, Masih S, Fang MA. Cane use in hip osteoarthritis. *Arthritis and Rheumatology*, 62(suppl): S710, 2010.
3. Huisinga JM, Yentes J, Kaipust JP, Filipi M, Stergiou N. Patients with MS exhibit increased predictability during gait and posture tasks. *Journal of Sport & Exercise Psychology*, 33(suppl):S24, 2011.
4. Yentes JM, Rennard SI, Stergiou N. COPD affects variability in spatiotemporal gait patterns. *Research Quarterly for Exercise and Sport*, 84(SI1):A98, 2013.
5. Yentes JM, Rennard SI, Blanke D, Stergiou N. Patients with COPD walk with a more periodic step width pattern as compared to healthy controls. *American Journal of Respiratory and Critical Care Medicine*, 189, A2643, 2014.
6. Yentes JM, Rennard SI, Blanke D, Stergiou N. Effect of exercise intervention on gait in patients with COPD: findings from a pilot study. *American Journal of Respiratory and Critical Care Medicine*, 189, A2644, 2014.
7. McGrath M, Yentes JM, Rosen AB. Non-linear analysis of postural stability under dual-task conditions in patients with chronic ankle instability, copers, and controls. *Journal of Athletic Training*, 52 (6):S166, 2017.
8. Denton W, Mukherjee M, Stergiou N, Yentes J. Effects of virtual uphill walking on energy expenditure and locomotor-respiratory coupling. *Innovation in Aging*, 1 (Suppl 1):530, 2017.
9. Yentes J, Rosen A, Grindstaff T, Starks Z. Peripheral fatigue does not influence the onset of fatigue in older adults. *Innovation in Aging*, 1 (Suppl 1):76, 2017.
10. Watson K, Boron JAB, Myers S, Yentes J. Increased difficulty of dual-motor tasks effects step length in young and older healthy adults. *Innovation in Aging*, 1 (Suppl 1):529, 2017.
11. Rosen AB, Mukherjee M, Yentes JM, McGrath ML, Maerlender AC. Cortical activation variability is altered in individuals with chronic ankle instability during single limb postural control. *British Journal of Sports Medicine*, 51 (Suppl 1):A7-A8, 2017. DOI: 10.1136/bjsports-2017-anklesymp.19
12. Henrickson JD, Rosen AB, Yentes JM, McGrath ML. The relationship between center of pressure and body mass index in individuals with chronic ankle instability. *British Journal of Sports Medicine*, 51 (Suppl 1):A21, 2017. DOI: 10.1136/bjsports-2017-anklesymp.53
13. Fallah Tafti F, Kim H, Yentes J, Venema D, Blaskewicz Boron J. Task specificity impacts dual task interference in older adults. *Innovation in Aging*, 2 (Suppl 1):991, 2018. DOI: 10.1093/geroni/igy031.3663
14. Yentes JM, Graeff-Armas K, Sayles H, Wickstrom J. Association of vitamin D with perceived balance and measured gait speed in chronic kidney disease. *Innovation in Aging*, 2 (Suppl 1):495, 2018.
15. Fallahtafti F, Yentes J. Stress influences performance: Insights inot designing high cognitive load rehab tasks. *Archives of Physical Medicine and Rehabilitation*, 100 (10):e124, 2019.
16. Kim HJ, Fallahtafti F, Yentes JM, Venema D, Boron JB. Effect of self-paced walking on reducing cognitive demands of walking while talking. *Innovation in Aging*, 3 (Suppl 1):655, 2019.

17. Fallahtafti F, Kim HJ, Yentes JM, Venema D, Boron JB. Optic flow improves spatial gait function in especially in mediolateral direction. *Innovation in Aging*, 3 (Suppl 1):658, 2019.
18. Kim HJ, Fallahtafti F, Yentes J, Venema D, Boron JB. High cognitive load situations decrease both gait and cognitive performance, *Innovation in Aging*, 4(Suppl 1):299, 2020.
19. Kim HJ, Yentes JM, Venema D, Boron JB. High cognitive load situations with different conversation topics affect walking speed and cognitive complexity. *Innovation in Aging*, 5(Suppl 1):705, 2021.
20. Kim HJ, Yentes J, Venema D, Boron JB. Fear of falling is related to anxiety. *Innovation in Aging*, 6(Suppl1):490, 2022.

Abstracts Under Review:

Oral Presentations:

Invited Research-Based Presentations

1. Yentes JM. *Functional outcomes associated with gait in patients with COPD*.
 - a. Pulmonary, Critical Care, Sleep & Allergy Research Conference. Omaha, Nebraska, October 2013.
 - b. Geriatric Research Seminar Series. Omaha, Nebraska, February 2015.
2. Yentes JM. *The clinical utility of locomotor-respiratory coupling as a diagnostic tool for COPD*.
 - a. Pulmonary, Critical Care, Sleep & Allergy Research Conference. Omaha, Nebraska, April 2015.
 - b. VA Friday Morning Seminar Series, Nebraska – Western Iowa Veterans’ Healthcare Clinic. Omaha, Nebraska, February 2016.
3. Yentes JM. *Breathing and walking coupling variability in COPD*. 2015 COBRE Research Day, University of Nebraska at Omaha. Omaha, Nebraska, May 2015.
4. Yentes JM. *Locomotor respiratory coupling as a clinical tool*.
 - a. Department of Surgery, University of Nebraska Medical Center. Omaha, Nebraska, October 2015.
 - b. Pulmonary, Critical Care, Sleep & Allergy Research Conference. Omaha, Nebraska, December 2015.
5. Yentes JM. *Innovative analysis of locomotor respiratory coupling in pulmonary disease*. Center for Respiratory Research and Rehabilitation, University of Florida. Gainesville, Florida, February 2016.
6. Yentes JM. *Breathing and walking coupling in pulmonary disease*. Center for Research in Human Movement Variability Seminar Series. Omaha, Nebraska, February 2018.
7. Yentes J. *The Impact of COPD on Balance, Gait, and Activity*, Lung Force Expo American Lung Association. Omaha, Nebraska. October 2018.
8. Yentes J. *Exercise & Physical Activity: How to Start & Stay Moving*, Lung Force Expo American Lung Association. Omaha, Nebraska. October 2018.
9. Yentes JM. *Functional outcomes in COPD: Synthesis of basic and clinical research*.
 - a. Promising Scientist Awardee Presentation. International Society of Posture and Gait Research. Edinburgh, Scotland, July 2019.
 - b. VA Friday Morning Seminar Series, Nebraska – Western Iowa Veterans’ Healthcare Clinic. Omaha, Nebraska, October 2019.
 - c. Department of Biomechanics Seminar Series. Omaha, Nebraska, February 2020.
 - d. University of North Texas Health Science Center, Center for Anatomical Sciences Seminar Series. Arlington, Texas, November 2021.
10. Rennard S, Markvicka E, Yentes J, McClay J, Zhang Y. *Sentinel: Team science to create a COVID warning system*. The Great Plains IDeA-CTR seminar series. Via Zoom, August 2020.
11. Yentes JM. *Running out of air? Improving rehabilitation outcomes in pulmonary disease*. Washington State University Kinesiology Graduate Seminar. Via Zoom, September 2020.

12. Yentes J. *Improving functional outcomes during aging and disease.* Texas A&M Health & Kinesiology. College Station, Texas, October 2020.
13. Yentes J. *Development and Validation of Health Equipment.* Federal University of São Paulo Professional Master's Program in Technological Innovation. Via Zoom, November 2022.

Tutorials

1. Stergiou N, Yentes JM. *Nonlinear analysis: Theory and applications.* 17th Annual Gait and Clinical Movement Analysis Society Meeting. Grand Rapids, Michigan, May 2012.
2. Stergiou N, Yentes JM. *Nonlinear analysis: Theory and applications.* 2013 American Society of Biomechanics Meeting. Omaha, Nebraska, September 2013.
3. Yentes JM. *Entropy.* Center for Research in Human Movement Variability Nonlinear Analysis Core Webinar Series. Via Zoom, October 2020.
4. Yentes JM. *Surrogation.* Center for Research in Human Movement Variability Nonlinear Analysis Core Webinar Series. Via Zoom, February 2021.
5. Yentes JM. *Nonlinear Analysis of Kinesiology Data.* Department of Health & Kinesiology. May-June 2022.

Guest Speaker

1. Yentes JM. *Innovative research fuels future advances in health care.* 2011 Nebraska Summit on Entrepreneurship. Omaha, Nebraska, February 2011.
2. Yentes JM. *Biomechanics and clinical practice: How analysis of human movement informs rehabilitation.* Annual Nebraska Physiological Society Meeting. Omaha, Nebraska, October 2014.
3. Yentes, JM. *Detecting problems before symptoms.* UNeMed Annual Technology Demo Day. Omaha, Nebraska, October 2014.
4. Coleman J and Yentes J. *The innovative use of teaching methods to engage students of diverse backgrounds.* School of Health, Physical Education and Recreation Seminar Series, University of Nebraska at Omaha. Omaha, Nebraska, April 2015.
5. Yentes JM. *A novel approach to patient care for chronic obstructive pulmonary disease.* University of Nebraska at Omaha Golden Circle Alumni Association. Omaha, Nebraska, May 2015.
6. Yentes J. *An Introduction to Interval Training, Cardiac and Pulmonary Rehabilitation,* University of Nebraska Medical Center, Omaha, Nebraska, June 2015.
7. Yentes JM, Gomez Johnson K, Crockett J, Squires A. Supporting STEM Faculty and Staff. *Women Advancing the Future of Information Technology in Higher Education.* Lincoln, Nebraska, November 2016.
8. Yentes J. *Most presentations stink.* Department of Biomechanics Seminar Series, University of Nebraska at Omaha. Omaha, Nebraska, October 2016.
9. Yentes JM, Gomez Johnson K, Vlasnik S. 2. UNO's WiSTEM Pro2: The creation of a cross-campus initiative to support, promote, and development women faculty and staff. *Nebraska Women in Higher Education Leadership Conference.* Lincoln, Nebraska, September 2017.
10. Yentes JM, Gomez Johnson K, Bennett D, Karabon A. Incorporating professional development and leadership training for women in STEM and IT. *Women Advance IT: Women Advancing the Future of Information Technology in Higher Education.* Lincoln, Nebraska. October 2017.
11. Blackburn H, Hitchens J, Yentes J. *Chancellors and change: Conversations about the campus climate,* Nebraska Women in Higher Education Leadership, Lincoln, Nebraska, October 2018.
12. Yentes JM. *Scientific Ethics.* Creighton University Department of Physics Seminar Series. Omaha, Nebraska, February 2020.
13. Yentes JM. *Tips of the job search for graduate students.* Creighton University's Student American Physical Therapy Association Seminar Series. February 17, 2021.
14. Yentes JM. Science Riot, Inc. Stand Up. Denver, Colorado. October 15, 2021.

Guest Lectures

1. Yentes JM. *Running shoes: Biomechanics, Injury, and Trends.*

- a. Omaha Running Club. Omaha, Nebraska, May 2014.
- b. Omaha Running Club. Omaha, Nebraska, April 2015.
- c. Omaha Running Club. Omaha, Nebraska. April 2016.
2. Yentes J. Research in the Biomechanics Research Building, Pre-Health Professionals Club, University of Nebraska at Omaha, Omaha, Nebraska. November 2014.
3. Yentes J. *How to advise women in STEM fields.* Academic Advising Council, University of Nebraska at Omaha, Omaha, Nebraska, October 2015.
4. Yentes J & Nero D. *Opportunities in STEM*, Upward Bound. Omaha, Nebraska. June 2017.
5. Yentes J. *Research in the Biomechanics Research Building*, Nu Rho Psi University of Nebraska at Omaha, Omaha, Nebraska, September 2018.
6. Yentes J. *What is Biomechanics?* College of Education University of Nebraska at Omaha, Omaha, Nebraska, July 2018.
7. Yentes J. *Careers in Biomechanics.* Skype a Scientist with Girl Guides Troop in Wainwright, Alberta. Online, May 2021.

Panel Member Discussions

1. Graduate School Applications, Athletic Training Organization and Administration Class, October 4, 2016
2. Hidden Figures Movie Discussion, WiSTEM Pro², University of Nebraska at Omaha, January 11, 2017
3. Women in Math and Science, Math Club, University of Nebraska at Omaha, February 20, 2017
4. Posters on the Hill Informational Session, Office of Research and Creative Activity, Omaha, Nebraska September 2018.

Meeting Presentations

1. Koutakis P, Yentes JM, Myers SA, Kaipust JP, Johanning JM, Pipinos I, Stergiou N. (Presented by Yentes, JM). Lower extremity kinetics are altered in patients with unilateral peripheral arterial disease.
 - a. *14th Annual Gait and Clinical Movement Analysis Society Meeting.* Denver, Colorado, March 2009.
 - b. *1st Annual UNO Student Research and Creative Activity Fair.* Omaha, Nebraska, March 2009.
2. Huben NB, Yentes JM, Myers SA, Pipinos II, Stergiou N, Johanning JM. Spatial and temporal gait parameters are not improved after revascularization in symptomatic peripheral arterial disease patients. *34th Annual Meeting of the Midwestern Vascular Surgical Society.* Indianapolis, Indiana, September 2010.
3. Yentes JM, Rennard SI, Stergiou N. Chronic obstructive pulmonary disease does affect gait.
 - a. *2010 Nebraska Academy of Sciences Annual Meeting.* Lincoln, Nebraska, April 2010.
 - b. *2011 Midwest Student Biomedical Research Forum.* Omaha, Nebraska, February 2011.
4. Huben NB, Yentes JM, Myers SA, Pipinos II, Stergiou N, Johanning JM. The effect of revascularization on spatio-temporal gait parameters in patients with symptomatic peripheral arterial disease. *2011 National Conference on Undergraduate Research.* Ithaca, New York, April 2011.
5. Huben NB, Yentes JM, Koutakis P, Myers SA, Johanning JM, Pipinos II, Stergiou N. Joint kinetics are independent of level of disease in peripheral arterial disease patients. *2011 National Conference on Undergraduate Research.* Ithaca, New York, April 2011.
6. Yentes JM, Rennard SI, Stergiou N. Chronic obstructive pulmonary disease does affect gait. (Mini Symposium Presentation) *American Thoracic Society 2011 International Conference.* Denver, Colorado, May 2011.
7. Huisinga JM, Yentes JM, Kaipust JP, Filipi ML, Stergiou N. Patients with MS exhibit increased predictability during gait and posture tasks. (Symposium Presentation) *2011 North American Society for the Psychology of Sport and Physical Activity Annual Meeting.* Burlington, Vermont, June 2011.
8. Yentes JM, Huisinga JM, Filipi ML, Stergiou N. Clinical and biomechanical measures of balance in multiple sclerosis. *17th Annual Gait and Clinical Movement Analysis Society Meeting.* Grand Rapids, Michigan, May 2012.

9. Hasenkamp R, Yentes JM, Wurdeman SR, Stergiou N, Johanning JM, Pipinos II, Myers SA. Plantarflexor strength is related with plantarflexor power during claudication in patients with peripheral arterial disease. *17th Annual Gait and Clinical Movement Analysis Society Meeting*. Grand Rapids, Michigan, May 2012.
10. Yentes JM, Wurdeman SR, Pipinos II, Johanning JM, McGrath D, Myers SA. Positive ankle work is affected by peripheral arterial disease. *2012 American Society of Biomechanics Meeting*. Gainesville, Florida, August 2012.
11. Stergiou N, Kyvelidou A, Yentes JM, McGrath D. A perspective on human movement variability: Implications for health and pathology. *2015 International Society for Posture and Gait Research World Congress*. Seville, Spain, June-July 2015.
12. Caniglia C, Freeman J, Rennard SI, Yentes JM. Accessing standard balance tests in patients with chronic obstructive pulmonary disease to determine the best prediction of future falls. *2016 Methodist Interprofessional Research Day*. Omaha, Nebraska, April 2016.
13. Freeman J, Caniglia C, Rennard SI, Yentes JM. Balance deficits in COPD: Differentiation between biological aging and disease. *2016 Gait and Clinical Analysis Movement Society Annual Meeting*. Memphis, Tennessee, May 2016.
14. Yentes JM. Locomotor-respiratory coupling in pulmonary disease. *1st Annual Human Movement Variability Conference*. Omaha, Nebraska, June 2016.
15. Than N, Smith W, McGrath M, Yentes J, Rosen A. Lower attention is associated with worse postural control in those with chronic ankle instability. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, North Carolina, August 2016.
16. Wiens C, Denton W, Schieber M, Hartley R, Marmelat V, Myers S, Yentes J. Reliability of a feedback-controlled algorithm dependent on the user's behavior. *2017 IEEE Region 4 Electro-Information Technology Conference*. Lincoln, Nebraska, May 2017.
17. Fallah Tafti F, Watson K, Yentes J. Effect of task difficulty and visual condition on dual motor task performance in younger and older adults. *2nd Annual Human Movement Variability Conference*. Omaha, Nebraska, June 2017.
18. McGrath ML, Yentes JM, Rosen AB. Nonlinear analysis of postural stability under dual-task conditions in patients with chronic ankle instability, copers, and controls. Rapid fire presentation at *National Athletic Training Association 2017*. Houston, Texas, June 2017.
19. Starks Z, Rosen A, Grindstaff T, Yentes J. In older adults, peripheral fatigue does not influence the onset of fatigue. *International Association of Geriatrics and Gerontology (IAGG) 2017*. San Francisco, California, July 2017.
20. Rosen AB, Mukherjee M, Yentes JM, McGrath ML, Maelender AC. Cortical activation variability is different in individuals with chronic ankle instability during single limb postural control. *International Ankle Symposium*. Chapel Hill, North Carolina, September 2017.
21. Rosen AB, Yentes J, McGrath ML, Mukherjee M, Myers SA. Sample entropy differences in static postural control in individuals with chronic ankle instability. *3rd Annual Human Movement Variability Conference*. Omaha, Nebraska, May 2018.
22. McGrath M, Yentes JM, Rosen A. Gender differences in non-linear postural stability in patients with chronic ankle instability and controls. *2018 NATA Clinical Symposia & Athletic Training Expo*. New Orleans, Louisiana, June 2018.
23. Fallahtafti F, Yentes JM. Induced stress increased the standing regularity and improved wire-maze performance during dual task. *2019 Human Movement Variability Conference*. Omaha, Nebraska, May 2019.
24. Fallahtafti F, Gonabadi AM, Curtze C, Samson K, Yentes JM. Margin of stability is larger and less variable during treadmill walking versus overground. *2020 Human Movement Variability Conference and Great Plains Biomechanics Meeting*. Online, September 2020.

25. Kim HJ, Fallahtafti F, Yentes JM, Venema DM, Boron JB. Optic flow while walking and talking does not alter speech fluency but may enhance walking stability. *2020 Human Movement Variability Conference and Great Plains Biomechanics Meeting*. Online, September 2020.
26. Raffalt PC, Yentes JM, Geertsens SS, Spedden ME. Complexity of isometric force production—Effect of age. *2020 Human Movement Variability Conference and Great Plains Biomechanics Meeting*. Online, September 2020.
27. Kim HJ, Fallahtafti F, Yentes JM, Venema DM, Boron JB. Older adults cope with cognitive complexity with greater cost to the gait performance. *Human Movement Variability Conference and Great Plains Biomechanics Joint Meeting*. Online, May 2021.
28. Raffalt PC, Yentes JM, Geertsens SS, Spedden ME. Complexity of neural control during isometric force production. *Human Movement Variability Conference and Great Plains Biomechanics Joint Meeting*. Online, May 2021.
29. Finnegan J, Peterkin B, Han HC, Yentes JM, Rennard SI, Markvicka EJ. Wireless, battery free and wearable electronic nose. *Proceedings of the 2022 Design of Medical Devices Conference DMD2022*. April 11-14, 2022, Minneapolis, Minnesota. **Winner of the 5-minute pitch competition.**

National & Regional Poster Presentations:

1. Aragaki DR, Nasmyth M, Nguyen G, Schultz S, Yentes J, Fang, M. Effect of contralateral and ipsilateral cane use on peak vertical force in healthy, young subjects. *Annual Assembly of the American Academy of Physical Medicine and Rehabilitation*. Boston, Massachusetts. 2007.
2. Yentes JM, Taylor CE, Perell KL, Harada ND, Aragaki DR, Fang MA. Beliefs about the consequences of cane use among adults with knee osteoarthritis. *University of California Los Angeles, 12th Annual UCLA Research Conference on Aging*. Los Angeles, California, September 2007.
3. Yentes JM, Fang MA, Perell KL, Grant CC. Cane use in obese patients with knee osteoarthritis. *13th Annual Gait and Clinical Movement Analysis Society Meeting*. Richmond, Virginia. April 2008.
4. Waraich SA, Yentes JM, Perell KL, Masih S, Harada ND, Heiney CC, Fang MA. The effects of single point canes on osteoarthritis of the knee. *2008 Annual Scientific Meeting for the American College of Rheumatology*. San Francisco, California. August 2008.
5. Yentes JM, Heiney CC, Perell KL, Harada ND, Masih S, Fang MA. Effects of cane use on lower limb loading in knee osteoarthritis. *University of California Los Angeles, 13th Annual UCLA Research Conference on Aging*. Los Angeles, California, September 2008.
6. Yentes JM, Koutakis P, Myers SA, Kaipust JP, Pipinos I, Johanning JM, Stergiou N. Unilateral intermittent claudication affects joint kinematics during gait. *14th Annual Gait and Clinical Movement Analysis Society Meeting*. Denver, Colorado. March 2009.
7. Yentes JM, Decker LM, Myers SA, Rodríguez-Aranda CE, Potter JF, Stergiou N. Aging and dual task alter amount and structure of lower limb kinematic variability during gait. *The Society of Neuroscience's 39th Annual Meeting*. Chicago, Illinois. October 2009.
8. Lee SM, Heiney C, Perell KL, Masih S, Harada ND, Yentes JM, Fang MA. Effect of cane use on lower limb biomechanics and pain in knee osteoarthritis. *2009 Annual Scientific Meeting for the American College of Rheumatology*. Philadelphia, Pennsylvania. August 2009. Awarded Notable Poster Designation.
9. Yentes JM, Huisinga JM, Myers SA, Pipinos II, Johanning JM, Stergiou N. Pharmacological treatment for intermittent claudication does not significantly affect gait impairments during claudication pain. *15th Annual Gait and Clinical Movement Analysis Society Meeting*. Miami, Florida. May 2010.
10. Huben NB, Yentes JM, Koutakis P, Myers SA, Johanning JM, Pipinos II, Stergiou N. Gait impairment in PAD patients is independent of level of disease. *15th Annual Gait and Clinical Movement Analysis Society Meeting*. Miami, Florida. May 2010.
11. Perell-Gerson KL, Heiney C, Harada ND, Yentes JM, Masih S, Fang MA. Cane use in hip osteoarthritis. *2010 ACR/ARHP Annual Scientific Meeting*. Atlanta, Georgia. November 2010.

12. Yentes JM, Decker LM, Fosnaugh EM, Teten AW, Potter JF, Stergiou N. Gait affects clustering and switching on semantic fluency. *The Society for Neuroscience's 40th annual meeting*. San Diego, California. November 2010.
13. Yentes JM, Wurdeman SR, Huisinga JM, Stergiou N. Mechanical efficiency during gait is altered by multiple sclerosis. *16th Annual Gait and Clinical Movement Analysis Meeting*. Bethesda, Maryland. April 2011.
14. Vallabhajosula S, Yentes JM, Tan CW, Siu KC, Stergiou N. Do lower extremity joint dynamics change when stair negotiation is initiated with a self-selected gait speed? *16th Annual Gait and Clinical Movement Analysis Meeting*. Bethesda, Maryland. April 2011.
15. Yentes JM, Rennard SI, Stergiou N. Gait in patients with COPD is mainly affected in proximal musculature. *American Society of Biomechanics 2011 Meeting*. Long Beach, California, August 2011.
16. Yentes JM, Vallabhajosula S, Stergiou N. Adaptations in joint kinetics over consecutive steps in stair negotiation. *American Society of Biomechanics 2011 Meeting*. Long Beach, California, August 2011.
17. Vallabhajosula S, Yentes JM, Tan CW, Siu KC, Stergiou N. Frontal joint dynamics while initiating with and without gait speed. *American Society of Biomechanics 2011 Meeting*. Long Beach, California, August 2011.
18. Vallabhajosula S, Yentes JM, Tan CW, Siu KC, Stergiou N. Impact of starting position on variability of neuromuscular control during stair negotiation. *Society of Neuroscience's 40th Annual Meeting*. Washington, D.C., November 2011.
19. Rand T, Yentes JM, Stergiou N, Myers SA. Fear of falling is related to walking impairment in peripheral arterial disease. *17th Annual Gait and Clinical Movement Analysis Society Meeting*. Grand Rapids, Michigan, May 2012.
20. Yentes JM, Rennard SI, Stergiou N. Walking abnormalities in patients with COPD. *2012 American Society of Biomechanics Meeting*. Gainesville, Florida, August 2012.
21. McGrath D, Wurdeman SR, Yentes JM, Hunt N, Myers SA, Stergiou N. Energy cost of maintaining balance during a perturbed gait task is related to gait variability. *2012 American Society of Biomechanics Meeting*. Gainesville, Florida, August 2012.
22. Yentes JM, Rennard SI, Stergiou N. RC Grant Findings: COPD affects variability in spatiotemporal gait patterns. *2013 Research Consortium Conference of the AAHPERD National Convention and Exposition*. Charlotte, North Carolina, April 2013.
23. Yentes JM, Stergiou N. Understanding walking and breathing coupling when abnormal breathing patterns are present. *2013 Nebraska Academy of Sciences Annual Meeting*. Lincoln, Nebraska, April 2013.
24. Yentes JM, Hunt N, Schmid KK, Kaipust JP, McGrath D, Stergiou N. Sample entropy outperforms approximate entropy with small data sets. *2013 American Society of Biomechanics Meeting*. Omaha, Nebraska, September 2013.
25. Yentes JM, Rennard SI, Blanke D, Stergiou N. Patients with COPD walk with a more periodic step width pattern as compared to healthy controls. *American Thoracic Society 2014 International Conference*. San Diego, California, May 2014.
26. Yentes JM, Rennard SI, Blanke D, Stergiou N. The effect of exercise intervention on gait in patients with COPD: Findings from a pilot study. *American Thoracic Society 2014 International Conference*. San Diego, California, May 2014.
27. Yentes JM, Rennard SI, Blanke D, Stergiou N. Patients with COPD walk with a more periodic step width pattern as compared to healthy controls. *7th World Congress of Biomechanics Meeting*. Boston, Massachusetts, July 2014.
28. Pickhinke J, Pisciotta E, Yentes JM. Sample entropy outperforms approximate entropy for large gait data sets. *7th World Congress of Biomechanics Meeting*. Boston, Massachusetts, July 2014.

29. Pisciotta EJ, Wurdeman SR, Yentes JM, Pipinos II, Johanning JM, Myers SA. A comparison of gait parameters between patients with peripheral arterial disease and patients with chronic obstructive pulmonary disease. *7th World Congress of Biomechanics Meeting*. Boston, Massachusetts, July 2014.
30. Yentes JM, Rennard SI, Blanke D, Stergiou N. Abnormal breathing strengthens locomotor respiratory coupling. *7th World Congress of Biomechanics Meeting*. Boston, Massachusetts, July 2014.
31. Arnold B, Wurdeman SR, Yentes JM, Pipinos II, Johanning JM, Myers SA. Amount of step width variability is increased in patients with peripheral arterial disease. *7th World Congress of Biomechanics Meeting*. Boston, Massachusetts, July 2014.
32. Pisciotta E, Yentes JM. Plantar pressure regularity is increased under the lateral forefoot in the elderly. *2015 Annual Meeting of North American Society for the Psychology of Sport and Physical Activity*. Portland, Oregon, June 2015.
33. Wiens C, McCamley J, Rennard SI, Yentes JM. COPD patients exhibit similar joint angle variability compared to older, healthy control subjects. *39th Annual Meeting of the American Society of Biomechanics*. Columbus, Ohio, August 2015.
34. Arnold A, Pisciotta E, Rennard S, Yentes J. Average minimum toe clearance may not contribute to increased fall risk in patients with chronic obstructive pulmonary disease. *39th Annual Meeting of the American Society of Biomechanics*. Columbus, Ohio, August 2015.
35. Denton WC, Pisciotta EJ, Yentes JM. Sample entropy outperforms approximate entropy for hour-long overground and treadmill walking. *39th Annual Meeting of the American Society of Biomechanics*. Columbus, Ohio, August 2015.
36. Rock C, Marmelat V, Yentes J, Takahashi K. Metabolic cost and fractal scaling during human walking: a potential trade-off. *2016 Rocky Mountain American Society of Biomechanics Meeting*. Estes Park, Colorado, April 2016.
37. Caniglia C, Freeman J, Rennard SI, Yentes JM. Determining the best predictor of future falls in patients with chronic obstructive pulmonary disease. *2016 Gait and Clinical Analysis Movement Society Annual Meeting*. Memphis, Tennessee, May 2016.
38. Caniglia C, Yentes JM. Accessing standard balance tests in COPD patients to determine the best prediction of fall prevalence. *1st Annual Human Movement Variability Conference*. Omaha, Nebraska, June 2016.
39. Wiens C, Yentes JM. Effects of auditory stimulus noise levels on the locomotor-respiratory coupling. *1st Annual Human Movement Variability Conference*. Omaha, Nebraska, June 2016. **Winner best graduate presentation.
40. Watson K, Yentes JM. The effects of task difficulty and vision during dual-motor tasking on gait in younger and older healthy adults. *1st Annual Human Movement Variability Conference*. Omaha, Nebraska, June 2016.
41. Freeman, J, Caniglia, C, Rennard, S, Yentes, J. COPD: A potential biological aging catalyst for balance deficiencies. *1st Annual Human Movement and Variability Conference*. Omaha, Nebraska, June 2016. **Winner best undergraduate presentation.
42. Than N, Smith W, McGrath M, Yentes J, Rosen A. Attentional capacities are related to nonlinear measures in those with chronic ankle instability but not those without. *1st Annual Human Movement Variability Conference*, Omaha, Nebraska, June 2016.
43. Yentes J, McCamley J, Wiens C, Denton W, Stergiou N, Rennard S. The association between walking and breathing coupling and energy expenditure in COPD patients. *6th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE)*, Washington, DC, June 2016.
44. Baudendistel S, Rennard S, Yentes J. Patients with COPD that report muscle fatigue, instead of breathlessness, have reduced ankle kinetics. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, North Carolina, August 2016.

45. Rosen A, Smith W, McGrath M, Than N, Yentes J. Females with decreased ankle function exhibit more medial-lateral complexity during single limb postural control. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, North Carolina, August 2016.
46. Taylor M, Yentes J, Kinney A, Diestelkamp W, Bigelow K. The effect of input parameters on detrended fluctuation analysis: Data length significantly affects results. *40th Annual Meeting of the American Society of Biomechanics*. Raleigh, North Carolina, August 2016.
47. Rock CG, Marmelat V, Yentes J, Takahashi KZ. Relationship between step-to-step variability and metabolic cost of transport during human walking. *2017 Nebraska Academy of Sciences Annual Meeting*. Lincoln, Nebraska, April 2017.
48. Yentes JM, Freeman J, Caniglia C, Rennard SI. Younger and older COPD patients demonstrate balance deficits as compared to controls. *International Society of Posture and Gait Research 2017*. Fort Lauderdale, Florida, June 2017.
49. Denton W, Mukherjee M, Stergiou N, Yentes J. Effects of virtual reality on energy expenditure and locomotor-respiratory coupling. *International Association of Geriatrics and Gerontology (IAGG) 2017*. San Francisco, California, July 2017.
50. Watson K, Boron J, Myers S, Yentes J. Dual-motor tasking effects step length with increasing task difficulty in young and older healthy adults. *International Association of Geriatrics and Gerontology (IAGG) 2017*. San Francisco, California, July 2017.
51. Raffalt PC, Yentes JM. Quantification of stride-to-stride dependency in human gait. *International Society of Biomechanics Annual Meeting 2017*. Brisbane, Australia, July 2017.
52. Leeder T, Roth A, Yentes J, Blaskewicz Boron J. The effects of dual-task walking and talking in different conditions and environments on elderly gait. *41st Annual Meeting of the American Society of Biomechanics*. Boulder, Colorado, August 2017.
53. Henrickson JD, Rosen AB, Yentes JM, McGrath ML. The relationship between center of pressure and body mass index in individuals with chronic ankle instability. *International Ankle Symposium*. Chapel Hill, North Carolina, September 2017.
54. Graeff-Armas LA, Wickstrom J, Yentes J, Sayles H. Falls, gait speed, and vitamin D status in chronic kidney disease. *21st Workshop on Vitamin D*. Barcelona, Spain, May 2018.
55. Baudendistel S, Rosen A, Grindstaff TL, Yentes JM. Step width changes with increased bimanual load regardless of sex. *42nd American Society of Biomechanics Meeting*. Rochester, Minnesota, August 2018.
56. Yentes JM, Graeff-Armas LA, Sayles H, Wickstrom J. Association of vitamin D with perceived balance and measured gait speed in chronic kidney disease. *Gerontological Society of America 2018 Annual Meeting*. Boston, Massachusetts, November 2018.
57. Fallah Tafti F, Kim HJ, Yentes JM, Venema DM, Boron JB. Dual task interference variations based on task specificity in older adults. *Gerontological Society of America 2018 Annual Meeting [Late-Breaking Abstract]*. Boston, Massachusetts, November 2018.
58. Rosen AB, Henrickson J, Yentes JM, Mukherjee M. Differences in sensory organization between chronic ankle instability and control participants. *National Athletic Trainers Association 70th Clinical Symposia and AT Expo*. Las Vegas, Nevada. June 2019.
59. Vijayan V, Schubert Kabban C, Yentes JM, Bigelow KE. Detrended fluctuation analysis for postural control data. *International Society of Biomechanics / American Society of Biomechanics Combined Meeting 2019*. Calgary, Alberta, Canada. July 2019.
60. Fallahtafti F, Yentes JM. Stress influences performance: Insights into designing high cognitive load rehab tasks. *ACRRM 96th Annual Conference*. Chicago, Illinois. November 2019.
61. Kim HJ, Fallahtafti F, Yentes JM, Venema D, Boron JB. Effect of self-paced walking on reducing cognitive demands of walking while talking. *2019 Gerontological Society of America Annual Scientific Meeting*. Austin, Texas. November 2019.

62. Fallahtafti F, Kim HJ, Yentes JM, Venema D, Boron JB. Optic flow improves spatial gait functioning especially in mediolateral direction. *Gerontological Society of America Annual Scientific Meeting*. Austin, Texas. November 2019.
63. Doerr K, Yentes JM. Difficulty of conversation topics may influence dual-task cost of gait. *2020 Student Research and Creative Activity Fair*. Omaha, Nebraska, March 2020.
64. Fallahtafti, F, Yentes JM. Dynamic stability of human walking during perturbed conditions. *2020 Student Research and Creative Activity Fair*. Omaha, Nebraska, March 2020.
65. Kim HJ, Fallahtafti F, Yentes JM, Venema DM, Boron JB. High cognitive load situations effect walking performance. *Boys Town Poster Symposium on Language, Hearing, and Cognition*. Omaha, Nebraska, April 2020. *canceled due to pandemic
66. Fallahtafti F, Yentes J, Wurdeman S. Sampling frequency influences the calculation of temporal, but not spatial, regularity of walking. *American Society of Biomechanics 2020*. Online, August 2020.
67. Fallahtafti F, Gonabadi AM, Samson K, Curtze C, Yentes J. Speed of walking, as well as walking mode can affect margin of stability. *American Society of Biomechanics 2020*. Online, August 2020.
68. Miller A, Yentes JM. Effect of vitamin D supplementation on balance in individuals with chronic kidney disease: A pilot study. *2020 Human Movement Variability Conference and Great Plains American Society of Biomechanics Meeting*. Online, September 2020.
69. Kim HJ, Fallahtafti F, Yentes JM, Venema DM, Boron JB. High cognitive load situations decrease both gait and cognitive performance. *Gerontological Society of America 2020*. Online, November 2020.
70. Perry BJ, Venema DM, Boron JB, Yentes JM. Perturbation dose-response curves for standing balance. *2021 Meeting of the American Society of Biomechanics*. Online, August 2021.
71. Fallahtafti F, Yentes JM. Effect of walking speed on compensatory responses to mediolateral perturbation. *2021 Meeting of the American Society of Biomechanics*. Online, August 2021.
72. Kim HJ, Yentes JM, Venema D, Boron JB. High cognitive load situations with different conversation topics affect walking speed and cognitive complexity. *Annual Gerontological Society of America Scientific Meeting*. Online, November 2021.
73. Manning J, Kim HJ, Boron JB, Venema D, Yentes JM. Older adults not resilient to balance perturbations have less complexity than middle-aged and older adult that are resilient. *International Society of Posture and Gait Research 2022 Meeting*. July 3-7, 2022, Montreal, Quebec, Canada.
74. Curtze C, Mukherjee M, Yentes J. Adaptability of locomotor patterns during walking and turning in people with Parkinson's disease. *International Society of Posture and Gait Research 2022 Meeting*. July 3-7, 2022, Montreal, Quebec, Canada
75. Manning J, Kim HJ, Boron JB, Venema D, Yentes JM. Responses to postural perturbations are highly individual and dependent on more than age-related changes between middle aged and older adults. *North American Congress on Biomechanics*. August 21-25, 2022, Ottawa, Ontario, Canada.
76. Pennell A, Senderling B, Yentes J, Brian A. Postural sway is nonlinear and adaptable in youth with VI who are and are not comorbid. *North American Federation of Adapted Physical Activity Symposium*. October 11-13, 2022, St. Catharines, Canada.
77. Kim HJ, Yentes JM, Venema D, Boron JB. Fear of falling is related to anxiety. *Annual Gerontological Society of America Scientific Meeting*. Indianapolis, Indiana, November 2022.

Press / Publicity:

1. June 2014, UNO Magazine, October issue on STEM
2. July 2014, MavGrants Streamlines Administrative Processes (Press Release)
3. September 2014, SHAPE America Newsletter (Magazine)
4. Fall 2015, UNO Magazine, "Wearing Hope", page32
5. [Television News Interview regarding student, Jordan Freeman](#), KETV, Taping: May 23, 2016, Aired: July 3, 2016

6. PBS Television Program, [Consider This: COPD](#), Episode 1928, Nebraska Educational Television, Taping: May 26, 2016, Aired: June 16 & 19, September 8 & 11, 2016
7. Radio Interview, [Friday Faculty Focus](#), KVNO University of Nebraska at Omaha Public Radio, Taping: August 15, 2016, Aired: August 19, 2016. [Sound cloud file](#).
8. Omaha World Herald, [Women and Minorities in STEM](#), Published: July 6, 2017
9. Research mentions and publicity for UNeMed Innovator of the Year in 2018
 - a. [Department of Biomechanics honored with UNeMed's Innovator of the Year Award](#). University of Nebraska at Omaha. October 26, 2018.
 - i. "Dr. Jenna Yentes' work with UNMC's Dr. Stephen Rennard to improve the quality of life in patients with chronic obstructive pulmonary disorder (COPD) by developing a wearable device which has the potential to predict early detection of worsening of COPD symptoms and exacerbations, which can result in death."
 - b. [UNO biomechanics is UNeMed's Innovator of the Year](#). UNeMed. October 29, 2018.
 - i. "And yet another program could predict sudden onset of life-threatening symptoms for sufferers of Chronic Obstructive Pulmonary Disorder or COPD."
 - c. [UNO biomechanics is UNeMed's Innovator of the Year](#). University of Nebraska Medical Center. October 30, 2018.
 - i. "and a device for predicting the sudden onset of life-threatening symptoms for sufferers of chronic obstructive pulmonary disease (COPD)."
 - d. [UNO biomechanics program is more than doubling its space under a 'visionary' leader](#). Omaha World Herald. December 26, 2018.
 - i. "Projects have included a wearable device to warn a patient of a coming COPD crisis"
 - e. [Editorial: UNO biomechanics programs yield multiple benefits](#). Omaha World Herald. December 31, 2018.
 - i. "Faculty and students have worked on projects including a wearable device to warn a patient of a coming COPD crisis"
10. @UNOmaha Twitter – July 12, 2018 10am – “Mavericks are a key part of this new ranking. One example: Dr. Jenna Yentes and William Denton from UNO Biomechanics have a patent-pending, wearable device that they hope will provide a breakthrough in treatment for those living with COPD. #NUforNE #UNOforNE”
11. Interviewee, College of Education, Meet the Dean Campaign and Commercials, Aired on TV throughout June and July 2019
12. [Television News Interview](#), KETV, Aired: August 13, 2019
13. Interviewee, Reader's Digest, [What your walking style can reveal about your health](#). May 17, 2020
14. Interviewee, UNeTech Blog, November 13, 2020
 - a. [Finding the perfect mentor](#)
 - b. [Working in STEM as a Woman](#)
15. Interviewee, UNeTech Blog, February 19, 2021
 - a. [Balancing parenthood and a career](#)
16. Speaker and Interviewee, Texas A&M Today, [Texas A&M Professors Share their 'Voices of Impact'](#), March 21, 2022
17. Interviewee, KBTX, [Caldwell students introduced to innovative science](#), April 5, 2022
18. Interviewee, Texas A&M College of Education & Human Development, [Texas A&M celebrates National Biomechanics Day at local school](#), April 6, 2022

Awards and Honors:

Faculty

Abstract Scholarship, Pulmonary Rehabilitation, American Thoracic Society	March 2014
Open Access Publication Fund Award, University of Nebraska at Omaha Library	2014, 2015
Faculty Advisor of the Year for overseeing the WiSTEM Student Organization, University of Nebraska at Omaha	2015-2016
National Institutes of Health Loan Repayment Program	2015-2019, 2020-2022
UNeMed Innovation Award Honoree, University of Nebraska	2016
First place team member, University Committee for the Advancement of Teaching, The Great Race	2017, 2018
National Institutes of Health, Competitive (NRMN P ³) Grant Writing Cohort, University of Minnesota	2017-2018
Chancellor's Commission on the Status of Women Outstanding Achievement Award, University of Nebraska at Omaha	2019
International Society of Posture and Gait Research Promising Scientist Award	2019
Inaugural class of University of Nebraska at Omaha's Racial Equity and Inclusion Certificate Program	2020-2021

Student

Student of the Year, University of Northern Colorado	1998 – 1999
Golden Key International Honor Society, Chapter President, University of Northern Colorado	2000
“Connect the Vet” Goal Sharing Project, Team Leader, VA West Los Angeles	2007
Special Incentive Award, VA West Los Angeles	2008
NASA Nebraska Space Grant Award	2008, 2009, 2010, 2011
Notable Poster Designation at the 2009 American College of Rheumatology Meeting	2009
National Institute on Aging Grants Technical Workshop	2010
Student Travel Scholarship to the JEGM combined meeting 2010	2010
American Society of Biomechanics Grant-in-Aid	2010
NASA Nebraska Space Travel Fellowship Award	2010, 2011, 2012
University of Nebraska Medical Center Patterson Fellowship	2011-2012
University of Nebraska Medical Center Regents Tuition Fellowship	2011-2012
American Society of Biomechanics Student Travel Award	2011
Force & Motion Foundation Travel Scholarship	2011
Invited speaker for University of Nebraska Medical Center High School Alliance Graduation	2011
Student Travel Scholarship to the GCMAS 2011 Meeting	2011
Abstract Scholarship, Pulmonary Rehabilitation, American Thoracic Society	2011
Best Graduate Oral Research Presentation, University of Nebraska at Omaha	2011
AAHPERD Graduate Student Grant-in-Aid	2011
University of Nebraska Medical Center Bukey and McDonald Fellowship	2012-2013
University of Nebraska Medical Center Regents Tuition Fellowship	2012-2013
Central District AAHPERD Ruth Abernathy Presidential Scholarship	2013

Institutional Service and Committee Appointments:

Departmental

- Member, Biomechanics Research Building Design Committee, School of Health & Kinesiology (formerly Health, Physical Education and Recreation), University of Nebraska at Omaha..... 2012-2013
- Director of Marketing, Biomechanics Research Building, University of Nebraska at Omaha ... 2013-2014
- Supervisor, Balance and Strength Service Requests for the Community, Biomechanics Research Building, University of Nebraska at Omaha..... 2013-2015
- Ex-Officio Member, Graduate Program Committee, School of Health & Kinesiology (formerly Health, Physical Education and Recreation), University of Nebraska at Omaha..... 2015-2016
- Chair, Undergraduate Student Learning Outcomes Committee, Department of Biomechanics, University of Nebraska at Omaha..... 2016-2017
- Member, Department Doctoral Program Committee, Department of Biomechanics, University of Nebraska at Omaha..... 2016-2020
- Member, Department Graduate Program Committee, Department of Biomechanics, University of Nebraska at Omaha..... 2018-2020
- Moderator, Human Movement Variability Meeting, Center for Research in Human Movement Variability, University of Nebraska at Omaha 2019-2020
- Conference Chair, Human Movement Variability and Great Plains Biomechanics Joint Meeting, Center for Research in Human Movement Variability, University of Nebraska at Omaha.....2021
- Member, Climate and Diversity Committee, Department of Health & Kinesiology, Texas A&M University..... 2021-2022
- Member, Exercise Physiology Tenure-Track Faculty Search Committee, Texas A&M University 2021-2022
- Chair, Ad-hoc Biomechanics Curriculum Committee, Department of Kinesiology and Sport Management, Texas A&M University..... 2022-2023

College

- Member, Reappointment, Promotion, and Tenure Committee, College of Education..... 2016-2018

University

- Moderator, Student Research and Creative Activity Fair, University of Nebraska at Omaha 2014-2021
- Member, Award for Distinguished Research or Creative Activity Selection Committee, University of Nebraska at Omaha..... 2015-2017
- Executive Board Member and Past President, WiSTEM Pro² (Women in Science, Technology, Engineering, and Math Promotion and Professional Development) Faculty and Staff Organization, University of Nebraska at Omaha..... 2015-2021
- Co-Faculty Advisor, Women in Science, Technology, Engineering, and Math (WiSTEM) Student Organization, University of Nebraska at Omaha..... 2015-2021
- Member, STEM Leadership, University of Nebraska at Omaha..... 2016-2021
- Member, Chancellor’s Commission on the Status of Gender Equity (formerly Chancellor’s Commission on the Status of Women), University of Nebraska at Omaha..... 2016-2021

Member, Campus Climate Committee	2017-2020
Member, Awards Committee.....	2017-2019
Member, University Inclusion and Equity Committee, University of Nebraska at Omaha	2019-2021
Mentor/Academic Colega, Amig@s Mentorship Program, MSC CAMAC, Texas A&M University	2021-2022
Judge, Texas A&M University 5th Annual Postdoctoral Research Symposium.....	2021
Reviewer, 2022-2023 Dr. Dionel Avilés '53 and Dr. James Johnson '67 Fellowship Program	2022

System-Wide

Member, Institutional Review Board #2, University of Nebraska Medical Center.....	2019-2021
Member, Research Data Policy taskforce, University of Nebraska.....	2020

Membership and Service in Professional Associations:

American Society of Biomechanics (ASB)	2006-
Administrator, American Society of Biomechanics 2013 Conference Planning.....	2012-2013
Mentor, American Society of Biomechanics Annual Meeting.....	2014-2016
Abstract Reviewer, American Society of Biomechanics Annual Meeting.....	2014-
Panelist, American Society of Biomechanics Career Round Table.....	2015
Moderator, Wide World of Gender Differences in Human Movement Thematic Poster Session, American Society of Biomechanics Annual Meeting, Columbus, Ohio	2015
Member, Awards Committee.....	2016-2017
Abstract Reviewer, Midwest American Society of Biomechanics Annual Meeting	2016
Grant Reviewer	2022
Society for Neuroscience (SfN)	2008-2015
Gait and Clinical Movement Analysis Society (GCMAS).....	2009-2018
Moderator, Balance Podium Session, Gait and Clinical Movement Analysis Society Meeting, Indianapolis, Indiana.....	2018
Chair, Education Council.....	2015-2018
Judge, Student Awards, Gait and Clinical Movement Analysis Society Meeting.....	2016
Student Mentor, Gait and Clinical Movement Analysis Society Meeting.....	2016
Abstract Reviewer, Gait and Clinical Movement Analysis Society Annual Meeting.....	2014-
Student Representative.....	2011-2013
North American Society for the Psychology of Sport and Physical Activity (NASPSPA).....	2010-2014
Society for Health and Physical Educators (SHAPE).....	2010-2015
Mentor, SHAPE America's Research Consortium Mentoring Program	2014
Abstract Reviewer, SHAPE America Annual Meeting	2015
American Thoracic Society (ATS)	2011, 2014
Gerontological Society of America (GSA).....	2013-
Abstract Reviewer, Gerontological Society of America Annual Meeting	2014-
Society for Chaos Theory in Psychology & Life Sciences.....	2014-2015
American Association of University Women (AAUW).....	2015-2017

Text and Academic Authors Association (TAA).....	2015-2017
Council on Undergraduate Research (CUR).....	2015-
Councilor, Health Sciences Division	2016-
Member, Posters on the Hill Committee.....	2016-
Abstract Reviewer, Posters on the Hill	2016-
Co-Chair, Health Sciences Division Awards Committee	2020-
Abstract Reviewer, National Council on Undergraduate Research Meeting	2021
International Society of Posture and Gait Research (ISPGR)	2015-
Black Biomechanics Association.....	2020-
Member, External Program Committee	2020-
International Women in Biomechanics.....	2020-
Society for Transparency, Openness and Replication in Kinesiology.....	2021-

Additional Service to the Profession:

Member, Standards for Verification of Force Measuring Platforms Proposal Committee, American Society for Testing and Materials	2013-2017
Judge, Metropolitan Science and Engineering Fair, Omaha, Nebraska	2017
Committee Chair, Research and Advocacy Committee, Omaha STEM Ecosystem.....	2017-2021
Volunteer, National Biomechanics Day	2017-2019
Conference Chair, Great Plains Biomechanics Meeting.....	2020-2021
Guest Editor, Frontiers Digital Health.....	2021-2023
Editorial Board, Gait & Posture.....	2021-
Guest Speaker, Skype a Scientist.....	2021-
Editorial Board, Scientific Reports	2022-
Conference Committee, South Central American Society of Biomechanics Meeting	2022-
Guest Editor, Sports	2022-

Manuscript Reviewer

Journal	# of manuscripts reviewed									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Gait & Posture	2	6	3	2	5	2	2	11	7	
Journal of Applied Biomechanics	1	2	1	2					2	
Human Movement Science	1	3	1		1		1	1	2	
Motor Control		1								
Sports Medicine	1									
ASME Journal of Biomedical Engineering	1									
IEEE Transactions in Biomedical Engineering	1									
Medical Engineering & Physics	1									
Entropy		1		2	4	2				
Experimental Brain Research		2					1	1		
Perceptual and Motor Skills		1								
Neural Processing Letters		1	1							
International Journal of COPD			1							
PlosOne			3	2	2			2		
Nature Scientific Reports			1	1		3				
Int J Performance Analysis in Sport			2							
Respiratory Medicine			1							

Clinical Biomechanics			1	1				1	
Annals of Biomedical Engineering			1	2	2		1		
Frontiers in Human Neuroscience			1	1					
Scandinavian Journal of Medicine and Science in Sports				2					
Physics Letters A					1				
Journal of Motor Behavior					1				1
Journal of Biomechanics					1	1	3	1	1
Journal of Mechanics in Medicine and Biology						1			
International Journal of Environmental Research and Public Health						1			
Geroscience							1		
Computer Methods in Biomechanics and Biomedical Engineering							1		
Journals of Gerontology A: Medical Sciences								1	
International Biomechanics								1	
Medicine and Science in Sports and Exercise								1	
Frontiers Physiology								1	
Aging Clinical and Experimental Research								2	
Research Quarterly for Exercise and Sport								2	
ASME Journal of Biomechanical Engineering								2	
IEEE Access								1	
Medical & Biological Engineering & Computing									1

Professional Development:

Workshops, Seminars, and Training

1. Writing Accountability Group, Center for Faculty Excellence, University of Nebraska at Omaha, 2014-2021
2. Timely Tech Talk Workshop, College of Education, University of Nebraska at Omaha, August 19, 2014
3. Blended Learning: Creating a Balanced Curriculum of Kinetics and Academics: Is this the next big thing in physical education? SHAPE America, Webinar, April 14, 2015
4. Become a Prolific Scholar Writing Workshop, Text and Academic Authors, Boys Town National Research Hospital, Omaha, Nebraska May 29, 2015
5. Efforts to Fill the Gender Gap: Moving Full STEAM Ahead, Omaha Chamber of Commerce, Omaha, Nebraska September 3, 2015
6. Make it Stick Book Discussion, Center for Faculty Development, University of Nebraska at Omaha, October 5, 2015
7. Widen Your Students Career Paths Seminar, University of Nebraska Graduate College, Lincoln, Nebraska, October 30, 2015
8. Publish & Flourish: Become a Prolific Scholar by Tara Gray, Center for Research in Human Movement Variability, University of Nebraska at Omaha, March 11, 2016
9. Camp Completion, Writing Center, University of Nebraska at Omaha, Omaha, Nebraska, 2016-2019
10. What Your Body Language Says About You, Women's Mentoring Committee, UNMC, Omaha, Nebraska via web June 16, 2016
11. Career Advising Workshop, University of Nebraska at Omaha AC/DC, Omaha, Nebraska, July 12-14, 2016
12. You Keep Using that Word: Direct Language for Research, UNMC Research Users Group, July 21, 2016
13. Implicit Bias: Personal & Professional Responsibility, University of Nebraska at Omaha, Omaha, Nebraska August 19, 2016
14. Building Your Personal Brand, Department of Gerontology, University of Nebraska at Omaha, Omaha, Nebraska September 12, 2016
15. Small Teaching Workshop, Center for Faculty Excellence, October 11, 2016
16. Creating the Conditions for Student Learning: TA Professional Development and General Instructional Practices, Elisabeth Schussler, University of Tennessee, Knoxville, UNO Biology Graduate Seminar, March 29, 2017
17. What Do I Do When...? Addressing Bias in the Classroom, Center for Faculty Excellence, April 3, 2017
18. Innovation in Pedagogy and Technology Symposium, Lincoln, Nebraska, May 9, 2017

19. Great Plains IDeA-CTR Network Research Mentor Training for Faculty Workshop, UNMC, Omaha, Nebraska, June 19, 2017
20. Five Rules of Discourse, Center for Faculty Excellence, February 5, 2018
21. Promoting your science: The art of the “elevator pitch”, Center for Research in Human Movement Variability Seminar Series, February 23, 2018.
22. Advising Graduate Students for Alternative Careers, University of Nebraska Graduate College, April 5, 2019
23. University of Nebraska System Science Retreat, Lincoln, Nebraska, 2017, 2018, 2019
24. Department of Defense funding workshop, Office of Research and Creative Activity, University of Nebraska at Omaha, Omaha, Nebraska, January 30, 2019
25. 2019 Science, Engineering, and Medicine (SEM) Research Retreat, University of Nebraska-Lincoln (UNL), the University of Nebraska Medical Center (UNMC), and the Great Plains IDeA-Clinical and Translational Research (GP IDeA-CTR), Omaha, Nebraska, March 8, 2019
26. From Meta to Micro: The Breadth of Social Network Analysis and Its Potential Impact in Grants, Presented by Dr. Tracie Reding, Online, July 21, 2020
27. Wisdom from Black Women in STEM: Making a unicorn more common, Online, August 25, 2020
28. Assessing General Education Learning Outcomes Using Canvas, University of Nebraska at Omaha, Online, August 31, 2020
29. Campus Conversation on Diversity, Equity and Inclusion: Tokenism in Higher Education, University of Nebraska at Omaha, Online, September 10, 2020
30. Teaching Analysis by Students (TABS). Physiology & Anatomy I, BMCH 2400-850, Fall 2020
31. Entrepreneurial Education/Core Business, DRIVEN Northeast IDeA Regional Accelerator Hub, Online, October 5, 2020
32. SBIR Road Tour, UNO ORCA and Nebraska Business Development Center, Online, October 19, 2020
33. Campus Conversations on DEI: Mentoring Students of Color and Cultivating a Pipeline, University of Nebraska at Omaha, Online, October 29, 2020
34. Inclusion refocused: race conversations and the urgency of now, University of Nebraska at Omaha, Online, December 11, 2020
35. Campus Conversations on DEI: Mentoring Faculty of Color and/or Women in Male-Dominated Fields, University of Nebraska at Omaha, Online, February 11, 2021
36. Beyond Academia Conference 2021, Beyond Academia, Online, February 25 & 26, 2021
37. Augmented Reality and its Applications on Human Movement and Medical care. Nebraska University Collaboration Initiative, Online, February 26, 2021
38. Jumpstart Your Sustainability Plan. Science Gateways Community Institute, Online, March 1-3, 2021
39. Human and Animal Movement: Where Does Stereotypy End and Variability Start? Emory College Theory and Modeling of Living Systems, Online, March 18, 2021
40. You mean I have non-faculty options in academia after my doctorate? ISPGR Symposium, March 31, 2021
41. Smart technologies for remote monitoring of health and function – what does the future hold? ISPGR Symposium, May 25, 2021
42. Moving into Academic Leadership Roles. Gerontological Society of America Career Conversations, June 23, 2021.
43. R Summer School. Society for Transparency, Openness and Replication in Kinesiology, Online, June-July 2021.
44. Step In Stand Up. Division of Student Affairs, Texas A&M University, College Station, TX, August 19, 2021.
45. Green Dot Bystander Training. Division of Student Affairs, Texas A&M University, College Station, TX, August 19, 2021.
46. Science Riot Comedy Training Workshop. Science Riot. Online, September 22-October 15, 2021.

47. Managing Conflict in Diverse Organizations Workshop. College of Education and Human Development, Texas A&M University, online, October 1-31, 2021.
48. Aggie Allies. Office of the Dean of Student Life, Texas A&M University, online, November 17, 2021.
49. 30th Annual Susan M. Arseven '75 Conference for Women in Science and Engineering, Texas A&M University, online, February 26, 2022.
50. Spring 2022 Nebraska Introduction to Customer Discovery (N-ICD), NUtech Ventures, University of Nebraska at Lincoln, online, February 7-March 21, 2022.
51. Agile in the Academy Coaching with Ad Meloria Coaching, CEHD Texas A&M University, online, April 2022-February 2023.
52. Impact Statement Workshop, International Women in Biomechanics, online, June 1, 2022.
53. The Mentored Research Academy: R01 Boot Camp, Texas A&M University, August 2022-May 2023
54. STRIPE Workshop: Strategies and Tactics for Retention Through Inclusive Promotion Evaluation, Texas A&M University, online, September 29, 2022.
55. Teaching Initiative Lightning Talks Session, International Society of Sports Biomechanics, online, November 11, 2022.

Teaching Experience:

Graduate Courses

2011 (1 sem.)	Nonlinear Analysis	University of Nebraska, Omaha
2015 - 2018 (4 sem.)	Advanced Biomechanics	University of Nebraska, Omaha
2017 (1 sem.)	Research in HPER	University of Nebraska, Omaha
2019 (1 sem.)	Biostatistics in Biomechanics I	University of Nebraska, Omaha
2020 (1 sem.)	Biostatistics in Biomechanics II	University of Nebraska, Omaha
2022 (1 sem.)	Seminar in Kinesiology	Texas A&M University

Undergraduate Courses

2004 (1 sem.)	Physical Conditioning	California State University, Fullerton
2007-2008 (3 sem.)	Measurement and Statistics in Kinesiology	California State University, Fullerton
2010 (1 sem.)	Measurement and Evaluation	University of Nebraska, Omaha
2012 (1 sem.)	Exercise Physiology	University of Nebraska, Omaha
2013-2014 (3 sem.)	Biomechanics	University of Nebraska, Omaha
2013-2014 (3 sem.)	Laboratory Methods	University of Nebraska, Omaha
2013-2014 (3 sem.)	Physiology & Anatomy II	University of Nebraska, Omaha
2013, 2020, 2021 (3 sem.)	Physiology & Anatomy I	University of Nebraska, Omaha
2019 (1 sem.)	Ethics of Scientific Research	University of Nebraska, Omaha
2021 - 2022 (3 sem.)	Motor Development across the Life Span	Texas A&M University
2021 (1 sem.)	Motor Learning and Skill Development	Texas A&M University

Independent Study

2017 (1 sem.)	Master's Independent Research (Leeder)	University of Nebraska, Omaha
2018 (1 sem.)	Doctoral Independent Study (Fallahtafti)	University of Nebraska, Omaha
2020 (1 sem.)	Master's Independent Study (Gomes)	University of Nebraska, Omaha

Guest Lecture or Speaker in Courses

1. Nonlinear Analysis, PE 9101, University of Nebraska at Omaha, Summer 2015, "Entropy", July 29, 2015
2. Nonlinear Analysis, PE 9101, University of Nebraska at Omaha, Summer 2015, "Recurrence Quantification Analysis", July 31, 2015
3. Foundations in PE, PE 2430, University of Nebraska at Omaha, Fall 2015, November 20, 2015

4. Foundations in PE, PE 2430, University of Nebraska at Omaha, Spring 2015, April 26, 2016
5. Nonlinear Analysis, PE 9101, University of Nebraska at Omaha, Summer 2016, “Entropy”, August 10, 2016
6. Nonlinear Analysis, PE 9101, University of Nebraska at Omaha, Summer 2016, “Recurrence Quantification Analysis”, August 12, 2016
7. Exercise for Special Populations, HPER 8850, University of Nebraska at Omaha, Fall 2016, COPD and Pulmonary Rehabilitation, October 20, 2016
8. Foundations in PE, PE 2430, University of Nebraska at Omaha, Fall 2016, November 14, 2016
9. Foundations in PE, PE 2430, University of Nebraska at Omaha, Spring 2017, March 30, 2017
10. Advanced Biomechanics II, BMCH 9460, University of Nebraska at Omaha, Spring 2017, “Posture in COPD”, February 27, 2017
11. Nonlinear Analysis, BMCH 9101, University of Nebraska at Omaha, Summer 2017, “Entropy”, August 3, 2017
12. Nonlinear Analysis, BMCH 9101, University of Nebraska at Omaha, Summer 2017, “Recurrence Quantification Analysis”, August 3, 2017
13. Foundations in PE, PE 2430, University of Nebraska at Omaha, Fall 2017, November 10, 2017
14. Foundations in PE, PE 2430, University of Nebraska at Omaha, Spring 2018, April 26, 2018
15. Advanced Biomechanics II, BMCH 9460, University of Nebraska at Omaha, “Posture and Balance”, February 27, 2018
16. Nonlinear Analysis, BMCH 9101, University of Nebraska at Omaha, Summer 2018, “Recurrence Quantification Analysis”, August 2, 2018
17. Foundations in PE, PE 2430, University of Nebraska at Omaha, Fall 2018, November 19, 2018
18. Foundations in Kinesiology, KINS 2430, University of Nebraska at Omaha, Spring 2019, March 5, 2020
19. Exercise for Special Populations, HEKI 8500, University of Nebraska at Omaha, Spring 2020, COPD and Pulmonary Rehabilitation, March 24, 2020
20. Foundations in Kinesiology, KINS 2430, University of Nebraska at Omaha, Fall 2020, November 11, 2020
21. Exercise for Special Populations, HEKI 8500, University of Nebraska at Omaha, Spring 2021, COPD, January 25, 2021
22. Undergraduate Biomechanics Course, Ohio University, Athens, Ohio, Online, April 11, 2022

Teaching Grants:

Travel Award for AAHPERD 2013, University Committee for the Advancement of Teaching, University of Nebraska at Omaha.....	2013
Curriculum Development Grant for Undergraduate Biomechanics, University Committee for the Advancement of Teaching, University of Nebraska at Omaha	2014
Curriculum Development Grant for Scientific Ethics in Research Undergraduate Course, University Committee for the Advancement of Teaching, University of Nebraska at Omaha	2017
General Education Assessment Mini-Grant for Scientific Ethics in Research Undergraduate Course, University Committee for the Advancement of Teaching, University of Nebraska at Omaha	2018
Curriculum Development Grant for Biostatistics in Biomechanics II Graduate Course, University Committee for the Advancement of Teaching, University of Nebraska at Omaha	2019
Foundations of Teaching Online Stipend for Physiology and Anatomy I Undergraduate Course, Digital Learning, University of Nebraska at Omaha	2020

Curriculum Development:

Course Development

1. BMCH 9010, Principles and Practices of Biomedical Research (2018-2019)

This course was developed in conjunction with BMCH 9000. I was responsible for developing the course syllabus and revisions as it proceeded through the approval process.

2. BMCH 9000, The Scientific Process and Grant Writing for the Biomedical Sciences (2018-2019)
This course was developed in conjunction with BMCH 9010. This course is one of two to split the Thursday morning didactic sessions into its own course. I was responsible for developing the course syllabus and revisions as it proceeded through the approval process.
3. BMCH 1100, Biomedical Ethics (2016-2017)
This course was developed as part of the newly designed Bachelor's degree in Biomechanics. I was responsible for developing the course syllabus to be submitted to the faculty for review. This course has now been offered twice.

Course Revision

1. PE 4630, Biomechanics (2014-2015)
The department purchased a Biopac for use in this class and I was able to procure a UCAT grant for this course to purchase Dartfish. These two purchases allowed me to work to revise the laboratory portion of the class to provide new laboratory experiences.
2. PE 4610, Laboratory Methods (2014-2015)
The department purchased a power rack, hand-held dynamometer, and a vertical jump test. These purchases allowed me to revise the course to include testing of a 1-RM, isometric strength testing, and a field test of power. The revisions were made for spring 2015 and revised again upon the completion of that semester.
3. BMCH 4630, Biomechanics (2016-2017)
This course was under revision due the redesign of the Bachelor's degree in Biomechanics. I have been reviewing the current curriculum and updating the curriculum to reflect the new math and physics prerequisites.
4. PE to BMCH Prefix (2016)
Several courses (~10) within the School of HPER were transferred to the Department of Biomechanics. Other revisions were made at the time including prerequisites. I oversaw the change in prefix from PE to BMCH through CMS and on through committees until full approval. This was done in conjunction with one staff member.
5. BMCH 2400, Physiology & Anatomy 1 (Spring 2017)
This course was under revision due to the Student Learning Outcomes work for General Education Courses. I rewrote the student learning outcomes associated with the class and submitted to the faculty for approval. I then submitted all changes in CMS.
6. BMCH 9910, Doctoral Seminar (Fall 2018)
This course was revised to split the Thursday morning didactic sessions into its own course.
7. KINE 627, Exercise Biomechanics (Fall 2021)
This course has not been taught at Texas A&M University for over 10 years. The course description and objectives were updated to reflect curriculum for applied biomechanics aimed to interest a diverse student population.

Students Mentored:

Postdoctoral Associates

John McCamley, PhD, University of Nebraska at Omaha 2015-2017

Doctoral

Farah Fallhtafti, University of Nebraska at Omaha 2016-2021

Wai-Yan Liu (visiting from the Netherlands)..... Fall 2016

Jordan Wickstrom (Co-Chair), University of Nebraska at Omaha..... 2017-2018

John “Jack” Manning, Texas A&M University	2021-
Drew Smith, Texas A&M University	2022-

Master’s Research and/or Teaching Assistants (teaching only is denoted by an asterisk)

Eric Pisciotta, University of Nebraska at Omaha	2013-2015
Zane Starks, University of Nebraska at Omaha.....	2014-2015
Casey Wiens, University of Nebraska at Omaha.....	2014-2016
Will Denton, University of Nebraska at Omaha.....	2014-2016
Nick Dinan*, University of Nebraska at Omaha	2015
Kristen Watson, ATC, University of Nebraska at Omaha.....	2015-2016
Sidney Baudendistel, University of Nebraska at Omaha.....	2015-2017
Kailey Snyder*, University of Nebraska at Omaha.....	2016-2017
Robert (RJ) Barber, ATC, University of Nebraska at Omaha	2016-2018
Taylor Leeder, University of Nebraska at Omaha	2017
Jackie Boeck, ATC, University of Nebraska at Omaha.....	2017-2019
Taylor Kinney*, University of Nebraska at Omaha	2020-2021
Cary “Mattie” Higgins, Texas A&M University	2022-

Undergraduate

Casey Caniglia, University of Nebraska at Omaha	2013-2017
Jordan Freeman, University of Nebraska at Omaha	2013-2017
Emma Thorne, University of Nebraska at Omaha.....	2016-2018
Kyle Doerr, University of Nebraska at Omaha.....	2018-2019
Alissa Miller, University of Nebraska at Omaha.....	2019-2021
Gina Petersen, University of Nebraska at Omaha	2021-2022
Lizetd Olalde, Texas A&M University.....	2021-
Sarah Green, Texas A&M University.....	2022
Ernesto Proenza, Texas A&M University	2022-

Interns

Kevin McCawley, Arizona State University	Summer 2015
Keaton Young, University of Nebraska at Kearney	Summer 2016
Jacob Gintz, University of Nebraska at Omaha.....	Spring 2017
Catherina Frerichs, University of Nebraska at Omaha	Spring 2018

Thesis and Dissertation Committees:

Doctoral Dissertation Committee Chair

1. Jordan Wickstrom (University of Nebraska at Omaha, Exercise Science), Investigating the interaction between social and motor processes in Autism Spectral Disorder (2018)
2. Fallahtafti, Farahnaz (University of Nebraska at Omaha, Exercise Science), Dynamic stability of human walking during steady state and perturbed conditions (2021)
3. Manning, John “Jack” (Texas A&M University, Motor Neuroscience), TBD (ongoing)
4. Smith, Drew (Texas A&M University, Exercise Physiology), TBD (ongoing)

Doctoral Dissertation Committee Member

1. Applequist, Bryon(University of Nebraska at Omaha, Exercise Science), The development and influence of footwear on gait variability in children from 2 to 10 years old (2017)

2. Motz, Zachary (University of Nebraska at Omaha, Exercise Science), Inter-limb coordination during gait in chronic stroke survivors (2020)
3. Hognon, Louis (University of Montpellier, France) (2022) – served as reviewer and jury
4. Kim, Hyeon Jung (University of Nebraska at Omaha, Gerontology), TBD (ongoing)
5. Mangan, Gary (University of Waterloo, Canada) (2023) – served as external reviewer
6. Gonzalez, Andrew (Texas A&M University, Exercise Physiology), TBD (ongoing)
7. Battley, Scott (Texas A&M University, Exercise Physiology), TBD (ongoing)
8. Stanelle, Sean (Texas A&M University, Exercise Physiology), TBD (ongoing)

Master's Thesis Committee Chair

1. Starks, Zane (University of Nebraska at Omaha, Exercise Science), Changes in oxygenation, central, and peripheral fatigue in older adults (2015)
2. Pisciotta, Eric (University of Nebraska at Omaha, Exercise Science), Effects of aging on the magnitude and regularity of plantar pressure distributions (2015)
3. Wiens, Casey (University of Nebraska at Omaha, Exercise Science), Comparison of noise signals on locomotor-respiratory coupling (2016)
4. Scott, Steven (University of Nebraska at Omaha, Exercise Science), A study on the benefits of the Free Flex® stretching machine to golf performance (2017)
5. Baudendistel, Sidney (University of Nebraska at Omaha, Exercise Science), An investigation in muscle activation during load carrying (2017)
6. Watson, Kristen (University of Nebraska at Omaha, Exercise Science), The effect of dual-motor tasking on gait in young and older healthy controls (2017)
7. Denton, William (University of Nebraska at Omaha, Exercise Science), Comparison of uphill walking and visual uphill environments on energy expenditure and locomotor-respiratory coupling (2017)
8. Barber, Robert (University of Nebraska at Omaha, Exercise Science), A comparison in balance of smokers and never-smokers (2018)
9. Boeck, Jackie (University of Nebraska at Omaha, Exercise Science), An investigation into the psychophysiological factors that influence physical activity and exercise in individuals living with asthma (2019)
10. Higgins, Cary “Mattie” (Texas A&M University, Motor Neuroscience), TBD (ongoing)

Master's Thesis Committee Member

1. Taylor, Melissa (University of Dayton, Department of Mechanical and Aerospace Engineering), The effect of input parameters on detrended fluctuation analysis of postural control data (2015)
2. Rock, Chase (University of Nebraska at Omaha, Exercise Science), Metabolic cost of transport and fractal scaling during human walking (2017)
3. Schieber, Molly (University of Nebraska at Omaha, Exercise Science), Tradeoffs in attention during dual-task gait. (2017)
4. Smith, William (University of Nebraska at Omaha, Exercise Science), Differences in center of pressure measures among chronic ankle instability, healthy, and ankle sprain copers during dual-tasking (2018)
5. Henrickson, Jayson (University of Nebraska at Omaha, Exercise Science), Effects of multisensory perturbations on gait kinematics in individuals with chronic ankle instability (2018)
6. Ridenour, Daniel (University of Nebraska at Omaha, Exercise Science), Kinematic and kinetic relationship of different jump protocols with change of direction performance (2018)
7. Young, Keaton (University of Nebraska at Omaha, Exercise Science), 3D Prosthetics effects on standing posture in unilateral upper limb deficient children (2019)
8. Hinton, Jay (University of Memphis, Exercise, Sport, and Movement Sciences), The effects of breast support on lower extremity non-linear dynamics during running. (2021)
9. Dovel, Bailey (Texas A&M University, Motor Neuroscience), TBD, (ongoing)

10. Nagle, Taylor (Texas A&M University, Motor Neuroscience) , TBD, (ongoing)

Comprehensive Exams Committee Chair

1. Castro, Roberto (Texas A&M University, Motor Neuroscience MS) Spring 2022 – Co-chair
- 2.

Comprehensive Exams Committee

1. Maun, Jenny (University of Nebraska Omaha, Biomechanics MS) Spring 2021
2. Raj, Rahul (University of Nebraska Omaha, Biomechanics MS) Spring 2021
3. Von Buettner, Chrislyn (Texas A&M University, Motor Neuroscience MS) Fall 2022

Honors Course Contracts:

1. Masako Ruth Mitsunari (Texas A&M University, Kinesiology) KINE 307/598 Lifespan Motor Development, Fall 2021

Awards and Honors to Trainees:

Graduate

1. Manning, John “Jack” (Texas A&M University, Motor Neuroscience)
 - i. Huffines Travel Grant, August 2022
2. Fallah Tafti, Farahnaz (University of Nebraska at Omaha, Biomechanics)
 - i. Competitive Graduate Fellowship, University of Nebraska at Omaha, May 2017
 - ii. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2017-2018
 - iii. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2018-2019
 - iv. Competitive Graduate Fellowship, University of Nebraska at Omaha, 2018
 - v. Gerontological Society of America Travel Award, 2018
 - vi. Graduate Studies Conference Travel Award, University of Nebraska at Omaha, 2018
 - vii. Graduate Studies Conference Travel Award, University of Nebraska at Omaha, 2019
 - viii. Force and Motion Foundation Travel Award, 2019
 - ix. College of Education Conference Travel Award, University of Nebraska at Omaha, 2019
 - x. University Committee on Research and Creative Activity Graduate Award, University of Nebraska at Omaha, Spring 2019
 - xi. Graduate Dissertation Scholarship, University of Nebraska at Omaha, 2020
 - xii. American Society of Biomechanics Diversity Travel Award, 2020
3. Boeck, Jackie (University of Nebraska at Omaha, Health & Kinesiology)
 - i. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2017-2018
4. Barber, Robert (University of Nebraska at Omaha, Health Physical Educ & Recreation)
 - i. Best Poster Presentation, Graduate, 2nd Annual Human Movement Variability Conference. June 2017
 - ii. Best Poster Presentation, Graduate, 9th Annual University of Nebraska at Omaha Student Research and Creative Activity Fair. March 2017
 - iii. NASA Nebraska Space Grant Fellowship, University of Nebraska at Omaha, 2017-2018
 - iv. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2017-2018
5. Leeder, Taylor (University of Nebraska at Omaha, Health Physical Educ & Recreation)
 - i. College of Education Travel Award, University of Nebraska at Omaha, August 2017
6. Baudendistel, Sidney (University of Nebraska at Omaha, Health Physical Educ & Recreation)
 - i. College of Education Travel Scholarship, University of Nebraska at Omaha, 2016
 - ii. NASA Nebraska Space Grant Fellowship, 2016-2017
 - iii. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2016-2017
7. Wiens, Casey (University of Nebraska at Omaha, Health Physical Educ & Recreation)
 - i. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2015-2016

- ii. University Committee on Research and Creative Activity Graduate Award, University of Nebraska at Omaha, 2015-2016
 - iii. College of Education Travel Scholarship, University of Nebraska at Omaha, 2016
 - iv. Graduate Poster First Place at 1st Annual Human Movement Variability Conference, 2016
 - v. NASA Nebraska Space Grant Fellowship, 2015-2016
8. Watson, Kristen (University of Nebraska at Omaha, Health Physical Educ & Recreation),
- i. University Committee on Research and Creative Activity Graduate Award, University of Nebraska at Omaha, 2015-2016
 - ii. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2016-2017
9. Denton, William (University of Nebraska at Omaha, Health Physical Educ & Recreation),
- i. NASA Nebraska Space Grant Fellowship, 2015-2016
 - ii. Graduate Research and Creative Activity Grant, University of Nebraska at Omaha, 2015-2016
10. Pisciotta, Eric (University of Nebraska at Omaha, Health Physical Educ & Recreation)
- i. College of Education Outstanding Graduate Student Award, University of Nebraska at Omaha, 2015
 - ii. American Society of Biomechanics Student Travel Award, 2015
 - iii. SHAPE America Grant in Aid, 2015-2016
11. Arnold, Andrew (University of Nebraska at Omaha, Health Physical Educ & Recreation)
- i. University Committee on Research and Creative Activity Graduate Award, University of Nebraska at Omaha, 2014-2015

Undergraduate

12. Proenza, Ernesto (Texas A&M University, Kinesiology & Sport Management), 2022-
- i. Kay and Jerry Cox Undergraduate Research Scholarship 2022-2023
13. Miller, Alissa (University of Nebraska at Omaha, Health & Kinesiology)
- i. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2019-2020
 - ii. NASA Nebraska Space Grant Fellowship, 2019-2020
 - iii. NASA Nebraska Space Grant Fellowship, 2020-2021
14. Doer, Kyle, (University of Nebraska at Omaha, Health & Kinesiology)
- i. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2018-2019
15. Freeman, Jordan (University of Nebraska at Omaha, Health Physical Educ & Recreation)
- i. Georgians for Nebraska Scholarship, 2014-2015
 - ii. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2014-2015
 - iii. Helen B. Hewitt Scholarship, University of Nebraska at Omaha, 2015-2016
 - iv. Outstanding Undergraduate Service Award in Health, Physical Education and Recreation, University of Nebraska at Omaha, 2015-2016
 - v. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2015-2016
 - vi. Hardship Support Scholarship, University of Nebraska at Omaha, 2016
 - vii. Undergraduate Poster First Place at 1st Annual Human Movement Variability Conference, 2016
 - viii. Georgians for Nebraska Scholarship, 2016-2017
 - ix. Best Poster Presentation, Undergraduate, 9th Annual University of Nebraska at Omaha Student Research and Creative Activity Fair, 2017.
16. Caniglia, Casey (University of Nebraska at Omaha, Health Physical Educ & Recreation)
- i. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2014-2015
 - ii. Fund for Undergraduate Scholarly Excellence Grant, University of Nebraska at Omaha, 2015-2016
 - iii. Gait and Clinical Movement Analysis Society Student Travel Award, 2016