

SANDRA K. HUNTER, PH.D.

FELLOW OF THE AMERICAN COLLEGE OF SPORTS MEDICINE (FACSM)

APRIL, 2026

PRIMARY POSITION	PROFESSOR and CHAIR OF MOVEMENT SCIENCE <i>Francie (Francea) Kraker Goodridge Professor of Kinesiology</i> <i>Chair: Movement Science Program School of Kinesiology</i> DIRECTOR: Neuromuscular Physiology of Human Movement Laboratory <i>University of Michigan</i> Ann Arbor, MI, 48109, USA
AFFILIATE POSITIONS	EDITOR-IN-CHIEF - JOURNAL <i>Exercise and Sport Sciences Reviews</i> ASSOCIATE EDITOR - JOURNAL <i>Medicine and Science in Sports and Exercise</i>
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RESEARCH EXPERTISE	Aging: Neuromuscular Function and Fatigability, and the Protective Effects of Exercise Training Sex Differences in Fatigability and Athletic Performance Diabetes: Muscle Function and Fatigability the Protective Effects of Exercise Training Exercise Training: Neuromuscular Fatigability and Strength Training COVID-19: Persistent Effects of Long COVID on Physical Function
IMPACT OF RESEARCH:	H Index: 67 (Google Scholar, April 18, 2026) i10-Index: 140 (# publications with 10 or more citations) Citations: 15,627 (Google Scholar, April 18, 2026) World's top 2% of most cited scientists (Stanford University Research): September 2025

I. EDUCATION

Postdoctoral Research Associate	University of Colorado , Boulder, CO <i>Neural Control of Movement Laboratory,</i> <i>Department of Kinesiology and Applied Physiology</i> Director: Professor Roger M Enoka.	1999 - 2003
Doctor of Philosophy <i>Exercise & Sport Science</i>	University of Sydney , Australia Dissertation: 'Human Skeletal Muscle Function and Morphology: <i>The Effects of Ageing and Exercise</i> ' Advisor: Associate Professor Martin Thompson.	1998
Graduate Diploma <i>Human Movement Science</i>	University of Wollongong , Australia	1992
Bachelor of Education <i>Physical Education & Health</i>	University of Sydney , Australia	1985

II. ACADEMIC, SCHOLARLY AND PROFESSIONAL EXPERIENCE

Professor and Chair	Chair of Movement Science School of Kinesiology University of Michigan, Ann Arbor, MI	08.2024 – present
Director	Athletic and Human Performance Research Center Marquette University , Milwaukee, WI <i>Office of Research and Innovation</i>	06.2018 – 08.2024
Professor	Marquette University , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2014 – 08.2024
Associate Professor	Marquette University , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2009 - 07.2014
Assistant Professor	Marquette University , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2003 - 07.2009
Postdoctoral Research Associate	University of Colorado , Boulder, CO <i>Neural Control of Movement Laboratory</i> <i>Department of Kinesiology and Applied Physiology</i> Research: Mechanisms of neuromuscular fatigue and muscle function: aging and sex differences Director: Professor Roger M Enoka	04.1999 - 07.2003
Research Assistant	Nepean Hospital , Sydney, Australia <i>Division of Geriatrics & Rehabilitation</i> Research: Strength and aerobic training in dependent old adults	1998 - 1999
Research Assistant	University of Sydney , Australia <i>School of Physiotherapy and School of Exercise & Sport Science</i>	1994 - 1999
Teaching Assistant	University of Sydney , Australia <i>School of Exercise & Sport Science</i> Teaching areas: exercise physiology and biomechanics	1992 - 1996
High School Teacher	Downlands College , Toowoomba, Queensland, Australia <i>Physical Education, Health & Geography Teacher; Women's Sports Coordinator</i>	1985 - 1988

III. PUBLICATIONS

A. REFEREED JOURNAL PUBLICATIONS

<https://www.ncbi.nlm.nih.gov/myncbi/1vUbzcynxaMj9/bibliography/public/>

* shared first authorship.

2026 (9 publications to date- April 2026)

180. Joyner MJ, Senefeld JW, Berman S, Moreau KL, **Hunter SK**. Research topics on transgender athletes: American College of Sports Medicine Call to Action Statement. *Translational Journal of the ACSM and Medicine & Science in Sports & Exercise* (accepted)
179. Wrucke DJ, Colosio M, James JJ, **Hunter SK**, Sundberg CW. Initial contractions of a single-load fatiguing exercise provide a valid assessment of age-related differences in peak power. *Journal of Applied Physiology* (1985). Apr 9, 2026. doi: 10.1152/jappphysiol.00159.2026. Epub ahead of print. PMID: 41956706.
178. Zhou Z, Wolfe SC, Schmit BD, Durand MJ, **Hunter SK**, Hyngstrom AS. Stroke increases motor output variability during maximal voluntary isometric contractions of knee extensor muscles in adults. *Physiological Reports*. Mar;14(6):e70840, 2026. doi: 10.14814/phy2.70840. PMID: 41866802.
177. Street JH, Larson AM, de Guia R, Bansal N, **Hunter SK**, Capin JJ. The paradox of sport: adolescent athletes are highly sedentary across competition, practice, and rest days. *BMC Sports Sci Med Rehabil*. Jan 22;18(1):86, 2026. doi: 10.1186/s13102-026-01539-6. Online ahead of print. PMID: 41572326

176. Zhou Z, Schmit BD, Durand MJ, **Hunter SK**, Hyngstrom AS. Stroke increases neuromuscular fatigability in females but not males during isometric exercise. *Med Sci Sports Exerc.* May 1;58(5):912-925, 2026. doi: 10.1249/MSS.0000000000003914. Online ahead of print. 2025 Dec 8. PMID: 41347372
175. Kroner KM., Lessila SV, Weibye B, Opielinski LE, Haischer MH, Uhrich TD, Piacentine LB, Papanek PE, **Hunter SK**, and Hoeger Bement M. Pain intensity and distribution in COVID-19 survivors and matched controls at rest and with movement. *Translational Journal of the American College of Sports Medicine.* Winter 2026; 11(1):e000334, 2026 doi: 10.1249/TJX.0000000000000334
174. Rouhani M, Hoeger Bement M, **Hunter SK**, Zackowski KM, Obeidat AZ, Ng AV. Perceived Pain during Isometric Exercise and Neuromuscular Fatigability in Individuals with Multiple Sclerosis *Multiple Sclerosis and Related Disorders*, Mar;107:106943,2026. doi: 10.1016/j.msard.2025.106943 <https://www.sciencedirect.com/science/article/abs/pii/S2211034825006819>, PMID: 41455296
173. Teigen LE, Zepeda CS, Dobrzycki I, **Hunter SK**, Fitts RH, Sundberg CW. Effects of acidosis and inorganic phosphate on Ca²⁺ sensitivity of young and older adult skeletal muscle fibers. *Am J Physiol Cell Physiol.* Jan 1;330(1):C224-C23, 2026. doi: 10.1152/ajpcell.00445.2025. PMID: 41348575
172. **Hunter SK**, From the Editor. Sparking Innovation: ESSR' s Role in Advancing Exercise and Sport Science. *Exercise and Sport Sciences Reviews*, 54(1):1-2. doi: 10.1249/JES.0000000000000378. PMID:41172276.

2025 (14 publications)

171. **Hunter SK**. Motor performance and aging in males and females. Invited Review. *Journal of Electromyography and Kinesiology* Dec;85:103066. doi: 10.1016/j.jelekin.2025.103066, 2025. DOI: 10.1016/j.jelekin.2025.103066, <https://pubmed.ncbi.nlm.nih.gov/41016071/>, PMID: 41016071
170. James JJ, Mellow ML, Bueckers EP, Gutsch SB, Wrucke DJ, Pearson AG, Smith AE, **Hunter SK**. Sex differences in human skeletal muscle fiber types and the influence of age, physical activity, and muscle group: A systematic review and meta-analysis. *Physiol Rep.* Nov;13(21):e70616. 2025. doi: 10.14814/phy2.70616. PMID: 41178056
169. Brown GA, Shaw B, Shaw I, Joyner MJ, **Hunter SK**, Senefeld JW, Tucker R, Hilton E, Lundberg TR, Carlson C, Kirk C. Comment on "Biology and Management of Male-Bodied Athletes in Elite Female Sports" by Handelsman & Bermon" *Drug Testing and Analysis.* <https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/dta.3876>. Nov;17(11):2271-2273, 2025. doi: 10.1002/dta.3916. Epub 2025. PMID: 40774828
168. Arney BE, Kuplic A, Adam M, Sundberg CW, **Hunter SK**. Mechanisms for the Age-Related Increase in Fatigability of the Elbow Flexor Muscles in Healthy Adults. *Physiological Reports* Oct;13(19):e70581, 2025. doi: 10.14814/phy2.70581. PMID: 41044911
167. **Hunter SK**. Testosterone and androgen receptors in females: what is possible with resistance training? *Journal of Physiology* Sep;603(18):5227-5228, 2025. doi: 10.1113/JP287660. PMID: 39513958.
166. Joyner MJ, **Hunter SK**, Senefeld JW. Reply to Hu et al. and Reply to Tenan et al. *Journal of Applied Physiology.* Jul 1;139(1):103-104, 2025. doi: 10.1152/jappphysiol.00403.20252025. PMID: 40553447
165. James JJ, **Hunter SK**, Bueckers EP, Joyner MJ, and Senefeld JW. Sex-based differences in representation of top youth athletes *Medicine and Science in Sports and Exercise* 57(7): 1523-1529, 2025. PDF, DOI: 10.1249/MSS.0000000000003681, PMID: 39999359
164. Joyner MJ, **Hunter SK**, Lundberg TR, Senefeld JW. Lesbian, gay, bisexual, transgender, queer, and other sexual and gender minority health disparities. *Annals of Internal Medicine*, 178(6): 903, 2025. PDF, DOI: 10.7326/ANNALS-25-00819
163. Opielinski LE, Uhrich TD, Haischer MH, Beilfuss RN, Mirkes Clark LM, Kroner KM, Bollaert RE, Danduran MJ, Piacentine LB, Hoeger Bement M, Papanek PE and **Hunter SK**. COVID-19 and the impact of physical activity on persistent symptoms. *Front. Sports Act. Living* Apr 24;7:1560023. doi: 10.3389/fspor.2025.1560023. eCollection 2025.
162. Charkoudian N, Barnes JN, **Hunter SK**, Joyner MJ. Letter to the Editor Regarding "Exercise physiology degrees in the United States: an update on secular trends". *Advances in Physiology Education* Mar 1;49(1):251-252, 2025. doi: 10.1152/advan.00234.2024. PMID: 39964813
161. Sundberg CW, Teigen L, **Hunter SK**, Fitts RH. Cumulative effects of H⁺ and Pi on force and power of young and older adult skeletal muscle fibers. *Journal of Physiology* Jan;603(1):187-209, 2025. doi: 10.1113/JP286938. PMID: 39545875.
160. **Hunter SK**, From the Editor. *Exercise and Sport Sciences Reviews*, 53(1):1, Jan 2025. doi: 10.1249/JES.0000000000000351. PMID: 39774422

159. Joyner MJ, **Hunter SK**, Senefeld JW. Evidence on sex differences in sports performance. *Journal of Applied Physiology*. 138(1):274-281, 2025. doi: 10.1152/jappphysiol.00615.2024. PMID: 39716906

2024 (11 publications)

158. Tucker R, Hilton EN, McGawley K, Pollock N, Millet GP, Sandbakk Ø, Howatson G, Brown GA, Carlson LA, Chen MA, Heron N, Kirk C, Murphy MH, Pringle J, Richardson A, Santos-Concejero J, Christiansen AV, Jones C, Alonso JM, Robinson R, Jones N, Wilson M, Parker MG, Chintoh A, **Hunter SK**, Senefeld JW, O'Connor MI, Joyner M, Carneiro EM, Devine C, Pike J, Lundberg TR. Fair and safe eligibility criteria for women's sports. *Scandinavian Journal of Medicine & Science in Sports*, 34(8): e14715, 2024. [Abstract](#) • [PDF](#) • [DOI: 10.1111/sms.14715](#)
157. Wrucke DJ, Kuplic A, Adam M, **Hunter SK**, Sundberg CW. Neural and muscular contributions to the age-related differences in peak power of the knee extensors in men and women *Journal of Applied Physiology*, Oct 1;137(4):1021-1040, 2024. DOI: 10.1152/jappphysiol.00773.2023. PMID: 39205638, PMCID: PMC11486474
156. **Hunter SK**, and Senefeld JW. Sex differences in human performance. Invited review. *Journal of Physiology* Sep;602(17):4129-4156. doi: 10.1113/JP284198, 2024. PMID: 39106346 [Abstract](#) • [PDF](#) • [DOI: 10.1113/JP284198](#)
155. Atkinson MA*, James JJ*, Quinn ME, Senefeld JW, **Hunter SK**. Sex differences in track and field elite youth. *Medicine & Science in Sports & Exercise* Aug 1;56(8):1390-1397, 2024. DOI: 10.1249/MSS.0000000000003423. PMID: 38595163 [ABSTRACT](#) • [PDF](#) • [DOI: 10.1249/MSS.0000000000003423](#) • [PrePrint](#)
154. Pereira HM, Keenan KG, **Hunter SK**. Influence of visual feedback and cognitive challenge on the age-related changes in force steadiness. *Experimental Brain Research*. Jun;242(6):1411-1419, 2024. doi: 10.1007/s00221-024-06831-w. Epub 2024 Apr 13. PMID: 38613669
153. Capin JJ, Wolf TL, Street JH, Smith CS, Lennon SL, Farquhar WB, **Hunter SK**, Piacentine LB. Midlife health crisis of former competitive athletes: dissecting their experiences via qualitative study. *BMJ Open Sport Exerc Med*. May 9;10(2):e001956, 2024. doi: 10.1136/bmjsem-2024-001956. eCollection 2024. PMID: 38736641.
152. **Hunter SK**. Edward F. Adolph Distinguished Lecture. Age and sex differences in the limits of human performance: fatigability and real-world data. Invited review. *Journal of Applied Physiology* Apr 1;136(4):659-676, 2024. DOI: 10.1152/jappphysiol.00866.2023. PMID: 38357723
151. Senefeld JW and **Hunter SK**. Hormonal basis of biological sex differences in human athletic performance. *Endocrinology*. Mar 29;165(5):bqae036, 2024. DOI: 10.1210/endocr/bqae036. [Abstract](#) • [PDF](#) • [DOI: 10.1210/endocr/bqae036](#) PMID: 38563597
*Recognized by *Endocrinology* as "Featured Article of the Week" and "Highly Cited Article".
150. **Hunter SK**, From the Editor. *Exercise and Sport Sciences Reviews*, 52(1):1-2, Jan 2024. doi: 10.1249/JES.0000000000000327. PMID: 38126400
149. Haischer MH, Opielinski LE, Mirkes LM, Uhrich TD, Bollaert R, Danduran M, Bement MH, Piacentine LB, Papanek PE, & **Hunter SK**. Heart rate variability is reduced in COVID-19 survivors and associated with physical activity and fatigue. *Physiological Reports* Jan;12(2):e15912, 2024. doi: 10.14814/phy2.15912. PMID: 38243329 PMCID: PMC10799199.
148. James JJ*, Klevenow EA*, Atkinson MA, Vosters EE, Bueckers EP, Quinn ME, Kindy SL, Mason AP, Nelson SK, Rainwater KAH, Taylor PV, Zippel EP, and **Hunter SK**. Reply to Nuzzo and Deaner: "Investigator bias" is a potent influence on the underrepresentation of women research participants in biomedical research. *Journal of Applied Physiology* 136 (1): 56–57, 2024. doi:10.1152/jappphysiol.00862.2023. PMID: 38127871.

2023 (15 publications)

147. James JJ*, Klevenow EA*, Atkinson MA, Vosters EE, Bueckers EP, Quinn ME, Kindy SL, Mason AP, Nelson SK, Rainwater KAH, Taylor PV, Zippel EP, and **Hunter SK**. Underrepresentation of Women Participants in Exercise Science and Physiology Research is Associated with Authorship. *Journal of Applied Physiology* 135: 932–942, 2023. doi: 10.1152/jappphysiol.00377.2023. PMID: 37650136
146. **Hunter SK**, Angadi SS, Bhargava A, Harper J, Hirschberg AL, Levine BD, Moreau K, Nokoff N, Stachenfeld N, Bermon S. *The biological basis of sex differences in athletic performance: consensus statement for the American College of Sports Medicine. Translational Journal of the American College of Sports Medicine*. 8(4),1-33. 2023. [DOI: 10.1249/TJX.0000000000000236](#).
145. **Hunter SK**, Angadi SS, Bhargava A, Harper J, Hirschberg AL, Levine BD, Moreau K, Nokoff N, Stachenfeld N, Bermon S. *The biological basis of sex differences in athletic performance: consensus statement for the American College of Sports Medicine*.

Medicine and Science in Sports and Exercise Dec;55(12):2328-2360, 2023. DOI: 10.1249/MSS.0000000000003300. PMID: [37772882](#)

144. Street JH, Boos Z, Fial AV, Lennon SL, Smith CS, Creasy SA, **Hunter SK**, Farquhar WB, Capin J. Long-term Function and Cardiometabolic Health in Former Athletes: A Scoping Review. *British Medical Journal Open Sport & Exercise Medicine*. Oct 27;9(4):e001605. doi: 10.1136/bmjsem-2023-001605. eCollection 2023. PMID: 37920279, PMCID: [PMC10619025](#)
143. Solleiro Pons M, **Hunter SK**, Ansdell P. Sex differences in fatigability and recovery following a 5 km running time trial. *European Journal of Sport Science* Open access July, 2023 <https://doi.org/10.1080/17461391.2023.2233483>
142. Sara LK, Gutsch SB, Hoeger-Bement M & **Hunter SK** Plantar flexor strength and pain sensitivity cannot be assumed in midportion Achilles tendinopathy. *Exercise, Sport and Movement* 1(4):1-7, 2023. DOI:10.1249/ESM.0000000000000017.
141. Nesburg RA, Mason AP, Fitzsimmons B, **Hunter SK** Sex differences in marathon running: physiology and participation *Exercise, Sport and Movement*. 1(3): e00010, July 2023. | doi: 10.1249/ESM.0000000000000010
140. Nokoff NJ, Senefeld JW, Krausz C, **Hunter SK**, Joyner MJ. Hormonal basis of sex differences in athletic performance: Perspectives on transgender athletes. *Exercise and Sport Sciences Reviews*, 51(3):85-95. 2023. Doi: 10.1249/JES.0000000000000317. PMID: 37057897
139. Berardi G, Eble C, **Hunter SK** & Bement MH. Localized Pain and Fatigue During Recovery From Submaximal Resistance Exercise in People With Fibromyalgia. *Physical Therapy* Jun 5;103(6), 2023. doi: 10.1093/ptj/pzad033, PMID: 37384640; PMCID: [PMC10309805](#)
138. Pereira HM and **Hunter SK**. Cognitive challenge as a noninvasive probe to expose sex-and age-related differences during static contractions. *Frontiers in Physiology* May 16;14:1166218, 2023. doi: 10.3389/fphys.2023.1166218. eCollection 2023. PMID: 37260592
137. Senefeld JW, **Hunter SK**, Coleman D, Joyner MJ. Case Studies in Physiology: Male to Female Transgender Swimmer in College Athletics. *Journal of Applied Physiology* 134: 1032–1037, 2023. <https://doi.org/10.1152/jappphysiol.00751.2022>
136. Boyer KA, Hayes KL, Umberger BR, Adamczyk PG, Bean JF, Brach JS, Clark BC, Clark DJ, Ferrucci L, Finley J, Franz JR, Golightly YM, Hortobágyi T, **Hunter SK**, Narici M, Nicklas B, Roberts T, Sawicki G, Simonsick E, and Kent JA. Age-related changes in gait biomechanics and their impact on the metabolic cost of walking: Report from a National Institute on Aging workshop. *Experimental Gerontology*. Mar;173:112102, 2023. doi: 10.1016/j.exger.2023.112102. Epub Jan 21, 2023. PMID: [36693530](#)
135. Piacentine LB, Barbosa HC, Haglund KA, Opielinski LE, **Hunter SK**, Papanek PE, Hoeger Bement MK, Johnson, NL. Lived Experiences of American Adults who Survive COVID-19: Implications for Physical Activity and Interpersonal Stress. *Families, Systems, and Health*. 41 (3), 308–319, 2023. <https://doi.org/10.1037/fsh0000792> <https://psycnet.apa.org/fulltext/2024-10422-002.pdf>
134. Fulton TJ, Sundberg CW, Arney BE, **Hunter SK**. Sex differences in the speed duration relationship across the lifespan. *Medicine Science Sports and Exercise* May 1;55(5):911-919, 2023. doi: 10.1249/MSS.0000000000003112. Epub 2022 Dec 28. PMID: [36728809](#)
133. **Hunter SK**, From the Editor. *Exercise and Sport Sciences Reviews*, 51(1):1, Jan 2023. DOI: 10.1249/JES.0000000000000309, PMID: 36508504

2022 (2 publications)

132. Wrucke DJ, Hoeger Bement MK, Harkins AL, **Hunter SK**, Stolzman S, Kaugars AS. Health Sciences Students' Mental Health, Physical Activity, and Career Commitment During the COVID-19 Pandemic. *Journal of the American Health College*, Oct 19;1-8. <https://doi.org/10.1080/07448481.2022.2128679>
131. Haischer MH, Beifuss R, Hart MR, Opielinski L, Schmit E, Wrucke D, Zhao H, Uhrich TD, **Hunter SK**. Who was wearing a mask in 2021? Update on gender-, age-, and location-related differences during the COVID-19 pandemic. MedRxiv 2022. <https://www.medrxiv.org/content/10.1101/2022.01.18.22269479v1> DOI: <https://doi.org/10.1101/2022.01.18.22269479>

2021 (9 publications)

130. Delgadillo JD, Sundberg CW, Kwon M, **Hunter SK**. Fatigability of the knee extensor muscles during high- and low-load resistance exercise in young and older adults *Journals of Gerontology* Oct 15, Volume 154, 2021, <https://doi.org/10.1016/j.exger.2021.111546> PMID: 34492255

129. Sara LK, Gutsch SB, & **Hunter SK** The single-leg heel raise does not predict maximal plantar flexion strength in healthy males and females. *PLoS One* Aug 20;16(8):e0253276, 2021. DOI: [10.1371/journal.pone.0253276](https://doi.org/10.1371/journal.pone.0253276). eCollection 2021. PMID: 34415915
128. Varesco G, **Hunter SK** & Rozand V. Physical activity and aging research: opportunities abound. *Applied Physiology, Nutrition, and Metabolism* Aug;46(8):1004-1006, 2021 DOI: [10.1139/apnm-2020-1062](https://doi.org/10.1139/apnm-2020-1062).
127. Berardi G, Senefeld JW, **Hunter SK**, Hoeger Bement MK. Fitness levels do not explain greater performance fatigability of the upper extremity in fibromyalgia. *European Journal of Applied Physiology*. Aug;121(8):2363-2364, 2021. DOI: [10.1007/s00421-021-04695-4](https://doi.org/10.1007/s00421-021-04695-4) Epub 2021 Apr 22. PMID: 33885990
126. Senefeld JW, Haischer MH, Jones AM, Wiggins CC, Beilfuss R, Joyner MJ & **Hunter SK**. Technological advances in elite marathon performance. *Journal of Applied Physiology* Jun 1;130(6):2002-2008, 2021. DOI: [10.1152/jappphysiol.00002.2021](https://doi.org/10.1152/jappphysiol.00002.2021). Epub 2021 May 13. PMID: 33982594
125. Berardi G, **Hunter SK**, Frey Law L and Hoeger Bement MK. Tolerance to submaximal eccentric exercise in women with and without fibromyalgia, moving away from anecdotal beliefs. *The Journal of Pain*. May; 22(5):608, 2021. <https://doi.org/10.1016/j.jpain.2021.03.120>
124. Berardi G, Senefeld JW, **Hunter SK** and Hoeger Bement MK. Impact of isometric and concentric resistance exercise on pain and fatigue in fibromyalgia. *European Journal of Applied Physiology*. May;121(5):1389-1404, 2021. DOI: [10.1007/s00421-021-04600-z](https://doi.org/10.1007/s00421-021-04600-z). Epub 2021 Feb 22. PMID: 33616753
123. Zijdwind I, Hyngstrom AS, **Hunter SK**. Fatigability in clinical and special populations: an important metric of motor performance *Frontiers in Physiology (Exercise Physiology)*. Feb 11;11:570861, 2021. DOI: [10.3389/fphys.2020.570861](https://doi.org/10.3389/fphys.2020.570861).

2020 (13 publications)

122. Negro F, Bathon KE, Nguyen JN, Bannon CG, Orizio C, **Hunter SK**, Hyngstrom AS. Impaired firing behavior of individually tracked paretic motor units during fatiguing contractions of the dorsiflexors and functional implications post stroke. *Front Neurol [Neurorehab]* 29 Oct 2020. <https://doi.org/10.3389/fneur.2020.540893>.
121. Haischer MH, Beilfuss R, Hart MR, Opielinski L, Wrucke D, Zircgaitis G, Uhrich TD, **Hunter SK**. Who is wearing a mask? Gender-, age-, and location-related differences during the COVID-19 pandemic. *PLoS ONE*, Oct 15, 2020. <https://doi.org/10.1371/journal.pone.0240785>.
120. * Ansdell P, Thomas K, Hicks K, **Hunter SK**, Howatson G, Goodall S. Physiological sex differences affect the integrative response to exercise: acute and chronic implications. *Exper Physiol*, 105: 2007–2021, 2020 <https://doi.org/10.1113/EP088548>. * **Inaugural Review Prize Winner**
119. Ansdell P, Škarabot J, Atkinson E, Corden S, Tygart A, Hicks KM, Thomas K, **Hunter SK**, Howatson G, Goodall S. Sex differences in fatigability following exercise normalised to the power-duration relationship. *J Physiol [Lond]*, 598: 24, 5717–5737, 2020 <https://doi.org/10.1113/JP280031>.
118. Senefeld JW, Singh-Peters LA, Kenno KA, and **Hunter SK**, and Jakobi JM. Greater fatigue resistance of dorsiflexor muscles in people with prediabetes than Type 2 Diabetes. *J Electromyogr Kinesiol*, Vol 54, Oct, 2020. <https://doi.org/10.1016/j.jelekin.2020.102458>.
117. Kwon M, Senefeld JW, and **Hunter SK**. Attenuated activation of knee extensor muscles during fast contractions in older men and women. *Eur J Appl Physiol*, Vol 120, 2289–2299, 2020. PMID: 32789699. <https://doi.org/10.1007/s00421-020-04451-0>
116. Senefeld JW, Keenan KG, Ryan KS, D'Astice SE, Negro F and **Hunter SK**. Greater fatigability and motor unit discharge variability in human type 2 diabetes. *Physiol Rep*, Jul;8(13):e14503, 2020. DOI: 10.14814/phy2.14503. PMID: 32633071, PMCID: PMC7379048
115. Teigen, L, Sundberg CW, Kelly L, **Hunter SK**, and Fitts RH. Ca²⁺ dependency of limb muscle fiber contractile mechanics in young and older adults. *Amer J Physiol: Cell Physiol*, Jun;318 (6): C1238-C1251, 2020. doi: 10.1152/ajpcell.00575.2019. PMID: 32348175 <https://journals.physiology.org/doi/abs/10.1152/ajpcell.00575.2019>
114. Joyner M, **Hunter SK**, Lucia A, and Jones A. Last Word on Viewpoint: Physiology and fast marathons. *J Appl Physiol* 128: 1086–1087, 2020. <https://doi.org/10.1152/jappphysiol.00181.2020>.
113. Joyner M, **Hunter SK**, Lucia A, and Jones A. Physiology and Fast Marathons. *J Appl Physiol* 128: 1065–1068, 2020. doi: 10.1152/jappphysiol.00793.2019. PMID: 31944889 <https://journals.physiology.org/doi/pdf/10.1152/jappphysiol.00793.2019>
112. Senefeld JW, Harmer AR, Magill SB, Harkins A, and **Hunter SK**. Greater fatigability of the lower limb in people with type 2 diabetes and prediabetes. *Med Sci Sport Exer* May;52(5):1176-1186, 2020. DOI: 10.1249/MSS.0000000000002238. PMID: 31815831.

https://pubmed.ncbi.nlm.nih.gov/31815831/?from_term=Greater+fatigability+of+the+lower+limb+in+people+with+type+2+diabetes+and&from_pos=2

111. Rozand V, Sundberg CW, **Hunter SK**, Smith AE. Age-related deficits in voluntary activation: a systematic review and meta-analysis. *Med Sci Sports Exer.* 52 (3), 549-560, 2020. doi:10.1249/MSS.0000000000002179. PMID: 31688647.
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B. BOOK CHAPTERS

Senefeld JW, **Hunter SK** and Neumann DA. 'Chapter 3: Skeletal Muscle: The Ultimate Stabilizer and Mover of the Skeletal System' in DA Neumann, *Kinesiology of the Musculoskeletal System* (4th edition); Publisher: Elsevier, 2024.

Hunter SK Senefeld JW and Neumann DA. 'Chapter 3: Skeletal Muscle: The Ultimate Stabilizer and Mover of the Skeletal System' in DA Neumann, *Kinesiology of the Musculoskeletal System* (3rd edition); Publisher: Elsevier, 2016.

Hunter SK and Brown DA. 'Chapter 3: Skeletal Muscle: The Ultimate Stabilizer and Mover of the Skeletal System' in DA Neumann, *Kinesiology of the Musculoskeletal System* (2nd edition); Publisher: Elsevier, 2010.

Hunter SK. 'Chapter 19: Aging and the Mechanisms of Task-Dependent Muscle Fatigue' in *Advances in Neuromuscular Physiology of Motor Skills and Muscle Fatigue*. Pages 391-414, Minoru Shinohara, Ed.; Publisher: Research Signpost, Kerala, India, 2009.

C. NON-REFEREED PUBLICATIONS / REPORTS

Hunter SK, Joyner MJ, Krausz C, Nokoff NJ. Sex Differences in Performance and the Transgender Athlete. *Invited Report for the Federation of International Swimming (FINA)*. January 27, 2022.

Hunter SK. [Tools of Discovery and Survival: A Faculty Perspective](#). Medium 10.06.2020.

Hunter SK. Gender Differences in the Marathon: Nature or Nurture? *Sports Medicine Bulletin*. American College of Sports Medicine's Weekly Web publication, 151. 07.05.2011

Hunter SK. "Big Question: Why do we age? A scientist's answer". *Marquette Magazine*. 08.10.2010

D. CONFERENCE PROCEEDINGS | ABSTRACTS | 2006 - PRESENT

(Conference Proceedings | Abstracts prior to 2006 available on request)

2026

- Opielinski LE, Sim L, Senefeld JW, **Hunter SK**. The Impact of a Transgender Athlete on Elite Team Swimming. *American College of Sports Medicine Annual Meeting*, Salt Lake City, UT, May 26 - 29, 2026.
- Lessila, SV, Logue Cook RN, & **Hunter SK**. Sex Specific Effects of Metformin on Strength in Individuals with Type 2 Diabetes. *American College of Sports Medicine Annual Meeting*, Salt Lake City, UT, May 26 – 29, 2026.
- Logue Cook RN, Senefeld JW, **Hunter SK**. How much do testosterone and estradiol contribute to the sex difference in muscle strength in children and adolescents? *American College of Sports Medicine Annual Meeting*, Salt Lake City, UT, May 26 – 29, 2026.
- Arney BE, Fulton TJ, James JJ, Lessila S, Sundberg CW, **Hunter SK**. Nitrate supplementation does not improve knee extensor fatigability and exercise hyperemia in older adults. *American College of Sports Medicine Annual Meeting*. Salt Lake City, UT, May 26 – 29, 2026.
- Doyle FW, Logue Cook RN, & **Hunter SK**. Type 2 Diabetes Accelerates Age-related Declines in Physical Function. *American College of Sports Medicine Annual Meeting*, Salt Lake City, UT, May 26 – May 29, 2026.
- Zhou Z, Klevenow E, Adam M, Sundberg CW, Schmit B, Durand M, **Hunter SK**, Hyngstrom A. Greater neuromuscular fatigability in females than males during dynamic contractions post stroke. *Organization for the Study of Sex Differences (OSSD) 20th Annual Meeting*. Kona, HI, May 12-15, 2026.

2025

224. Logue Cook RN, **Hunter SK**. The benefits of hormone replacement therapy for muscular performance in older females. *Wu Tsai Human Performance Alliance Female Athlete Research Meeting*, Palo Alto, CA, November 5, 2025.
223. Logue Cook RN, Turcu A, **Hunter SK**. Strength, sex hormones, and the protective effect of hormone replacement therapy in females with aging. Poster presentation at the *American Physiological Society on New Trends in Sex Differences and Women's Health Research Conference*, Tulane University Medical Campus, New Orleans LA, October 23-25, 2025.
222. James JJ, Wrucke DJ, Kroner KM, Kern LM, Dobrzycki I, Zepeda CS, Klamecki LJ, Touvannas JA, Acklie PN, **Hunter SK**, Sundberg CW. Neuromuscular determinants for sex differences in power of the knee extensor muscles in young and older adults. Poster presentation at the *American Physiological Society on New Trends in Sex Differences and Women's Health Research Conference*, Tulane University Medical Campus, New Orleans LA, October 23-25, 2025.
221. Teigen LE, Fitts RH, Hunter SK, Sundberg CW. (2025, July). Myofibrillar ATPase efficiency of skeletal muscle fibers from young and older adults. Poster at the *30th Annual European College of Sports Science Congress*, Rimini, Italy, July 1-4, 2025.
220. James JJ, Kern LM, Wrucke DJ, Kroner KM, Dobrzycki I, Zepeda CS, Klamecki LJ, Touvannas JA, Acklie PN, **Hunter SK** & Sundberg CW. Neuromuscular determinants for the differences in power of the knee extensor muscles in young and older adults. Oral presentation at the *30th Annual European College of Sports Science Congress*, Rimini, Italy, July 1-4, 2025.
219. Zhou Z, Klevenow E, Bean T, Adam M, Sundberg C, Schmit B, Durand M, **Hunter SK**, Hyngstrom A. Sex Differences in Neuromuscular Fatigability During Ischemic Dynamic Knee Extension Exercise Post Stroke. *Organization for the Study of Sex Differences (OSSD) Annual Meeting*, Albuquerque, NM, June 1-5, 2025. *OSSD NIH and FDA-sponsored Travel Award to Z. Zhou
218. Logue Cook RN, Lessila S, Turcu A & **Hunter SK**. Strength is associated with sex-steroid hormones in males and females across the lifespan. *American College of Sports Medicine Annual Meeting*, Atlanta, GA, May 27 - May 31, 2025.
217. Arney BE, Pearson AG, James JJ, Fulton TJ, Lessila S, Wrucke DJ, Kroner KM, Morales J, Sundberg CW, **Hunter SK**. Blood flow and fatigability of the knee extensor muscles across the diabetes spectrum. *American College of Sports Medicine Annual Meeting*, Atlanta, GA, May 27-May 31, 2025.
216. Rouhani M, Hoeger-Bemnet MK, Obeidat AZ, Zackowski KM, **Hunter SK** & Ng AV. Movement-Evoked Pain Influences Neuromuscular Fatigue in People with Multiple Sclerosis. *Annual Meeting of the Consortium of Multiple Sclerosis Centers (CMSC)*, Phoenix, AZ, May 28-31, 2025.
215. Zepeda CS, Haischer MH, Teigen LE, Pearson AG, James JJ, Dobrzycki I, Opielinski LE, Wrucke DJ, Kroner KM, Arney BE, Fitts RH, **Hunter SK**, & Sundberg CW. The neuromuscular and skeletal muscle profile of a world class masters speed skater: A case study. *American Physiology Summit*. Baltimore, MD. April 24-27, 2025.

2024

214. Dobrzycki I, Acklie PN, Chouinard CR, Klamecki LJ, Tonnemacher AM, Birmingham TR, Lee JH, Wrucke DJ, Kroner KM, James JJ, Arney BE, Haischer MH, Opielinski LE, Fitts RH, **Hunter SK**, Sundberg CW. Impact of blood flow restriction training on fiber type-specific capillary and satellite cell content in skeletal muscle of older adults. *Integrative Physiology of Exercise*, State College, PA, November 20-22, 2024.
213. Zhou Z, Klevenow E, Adam M, Sundberg C, Durand M, Schmit B, **Hunter SK**, Hyngstrom A. Sex Differences in Neuromuscular Fatigability During Dynamic Knee Extension Exercise Post Stroke. *Integrative Physiology of Exercise (IPE) Conference*, University Park, PA, November 20-22, 2024
212. James JJ, Mellow ML, Bueckers EP, Gutsch SB, Wrucke DJ, Pearson AG, Smith AE, & **Hunter SK**. Sex Differences in Skeletal Muscle Fiber Types: the Influence of Age, Physical Activity, and Muscle Group. *Integrative Physiology of Exercise*. University Park, PA. November 20-22, 2024.
211. Arney BE, Fulton TJ, Sundberg CW, **Hunter SK**. Effects of dietary nitrate supplementation on knee extensor fatigability, exercise hyperemia, and oxygenation in people with prediabetes. *Integrative Physiology of Exercise*. University Park, PA. November 20-22, 2024.
210. Zepeda CS, Dobrzycki I, Acklie PN, Chouinard CR, Klamecki LJ, Tonnemacher AM, Birmingham TR, Lee JH, Wrucke, DJ, Kroner KM, James JJ, Arney BE, Haischer MH, Opielinski LE, Fitts RH, **Hunter SK**, & Sundberg CW. Impact of blood flow restriction training on fiber type-specific capillary and satellite cell content in skeletal muscle of older adults. *Integrative Physiology of Exercise*. University Park, PA. November 20-22, 2024.
209. Zhou Z, Klevenow E, Adam M, Sundberg C, Durand M, Schmit B, **Hunter SK**, Hyngstrom A. Sex Differences in Neuromuscular Fatigability During Dynamic Knee Extension Exercise Post Stroke. Wisconsin Science Education and Research (WISER) Consortium, Milwaukee, WI, October 4-6, 2024.
208. Winberg A, Zhou Z, Klevenow E, Bean T, Adam M, Durand M, Schmit B, **Hunter SK**, Hyngstrom A. Greater Neuromuscular Fatigability Post Stroke During Dynamic Exercise. Marquette Biomedical Sciences Summer Research Program (SRP) Poster Session, Milwaukee, WI, August 2, 2024.
207. Arney BE, Fulton TJ, Sundberg CW, **Hunter SK**. Effects of dietary nitrate supplementation on vascular function in individuals with prediabetes. Poster presentation at *Translational Science National Meeting*. Las Vegas, NV. April 3-5, 2024
206. Haischer MH, Ahn N, Smith M, Smith T, Capin JJ, Harry JR, **Hunter SK**, Kipp K. Ankle and knee joint work differentiates drop jump performance. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28-31, 2024.
205. Opielinski LE, Uhrich TD, Haischer MH, Kroner KM, Lessila SV, Danduran MJ, Bollaert RE, Beilfuss RN, Mirkes LM, Hoeger Bement M, Piacentine LB, Papanek PE, **Hunter SK**. Pulmonary Function in Non-Hospitalized COVID-19 Survivors. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28-May 31, 2024.
204. Kroner KM, Opielinski LE, Uhrich TD, Haischer MH, Lessila SV, Danduran MJ, Bollaert RE, Beilfuss RN, Mirkes LM, Hoeger Bement M, Piacentine LB, Papanek PE, **Hunter SK**. Time Since Infection Impacts Predicted Maximal VO₂ in COVID-19 Survivors. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28-May 31, 2024.
203. James JJ, Senefeld JW, Bueckers EP, Coleman D, Joyner MJ, **Hunter SK**. Sex Differences in Proportional Numbers of Top Performances within Elite Youth Track and Field Athletes. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
202. Wrucke DJ, James JJ, Arney BE, Opielinski LE, Gunnink E, Kroner KM, Fitts RH, Sundberg CW, **Hunter SK**. Fatigability and blood flow restriction training of the knee extensors in older adults. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
201. Gutsch SB, **Hunter SK**, Brinkmann TN, McChesney RT, Bement MH. Pain decreases during exercise using the principles of offset analgesia. *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
200. Zhou Z, Whitaker-Hilbig AA, Bean TM, Nguyen JN, Klevenow EA, Uhrich TD, **Hunter SK**, Schmit BD, Durand MJ, Hyngstrom AS. 10-Meter Walk Test Predicts Cardiorespiratory Fitness in People Moderately Affected by Stroke. *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
199. Arney BE, Fulton TJ, Sundberg CW, **Hunter SK**. Dietary Nitrate Supplementation Improves Vascular Function Similarly in Older Men and Women. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.

198. **Hunter SK**. Trans Athletes in Sport: Sex Differences, Inclusion and Fairness, Discussant-Panel. *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
197. Glattke KE, Correia-Harker B, **Hunter SK**, Capin JJ. Gender Differences in Socially Responsible Leadership and Leadership Self-Efficacy in Collegiate Varsity Athletes. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
196. Correia-Harker B, Glattke KE, **Hunter SK**, Capin JJ. Differences in Socially Responsible Leadership and Leadership Self-Efficacy in Collegiate Varsity Athletes Before and During COVID-19. Presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
195. Capin JJ, Bement MH, Mirkes L, Heck JS, Glattke KE, McKay C, Smith CS, **Hunter SK**. Midlife Former College Athletes with Prior Injury Report Greater Pain and Worse Quality of Life. To be presented at the *American College of Sports Medicine Annual Meeting*, Boston, MA, May 28 – 31, 2024.
194. Morgan AM, James JJ, **Hunter SK**, Joyner MJ, Coleman D, & Senefeld JW. Sex Differences in Youth Elite Swimming Performance. *American Physiology Summit*, Long Beach, CA, April 4 – 7, 2024
193. Zhou Z, Klevenow E, Adam M, Schmit B, Durand M, Hunter S, Hyingstrom A. Ischemic Conditioning Reduces Neuromuscular Fatigability During Dynamic Exercise Post Stroke. *American Physiology Summit*, Long Beach, CA, April 4-7, 2024.
192. Zhou Z, Whitaker-Hilbig A, Bean T, Nguyen J, Klevenow E, Uhrich T, Hunter S, Schmit B, Durand M, Hyingstrom A. Functional Walking Tests Predict Cardiorespiratory Fitness in Stroke Survivors. *Bugher Foundation Collaborative Symposium*, Phoenix, AZ, February 9-10, 2024.

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191. Arney BE, Fulton TJ, Kern LM, Wrucke DJ, Sundberg CW, **Hunter SK**. Muscle Oxygen Responses and Muscle Fatigue of the Quadriceps Muscles in People with Prediabetes. Poster presentation at *Milwaukee Regional Research Forum*, Milwaukee, WI, October 2023.
190. Bean TM, Zhou Z, Klevenow EA, Adam MD, Durand MJ, Schmit BD, **Hunter SK**, Hyingstrom AS. Neuromuscular Fatigability During a Dynamic Exercise Post Stroke and Its Relation to Function. *American Physical Therapy Association Wisconsin Fall Conference*, Wisconsin Dells, WI, Oct 5-6, 2023.
189. Bean TM, Zhou Z, Klevenow EA, Adam MD, Durand MJ, Schmit BD, **Hunter SK**, Hyingstrom AS. Neuromuscular Fatigability During a Dynamic Exercise Post Stroke and Its Relation to Function. *Marquette University Biomedical Sciences Summer Research Program Poster Session*, Milwaukee, WI, Aug 4, 2023.
188. Zhou Z, Alqahtani S, Nguyen JN, Raab SC, Kroll ZA, Klevenow EA, Schmit BD, Durand MJ, **Hunter SK**, Hyingstrom AS. Greater Neuromuscular Fatigability in Females with Chronic Stroke. *American Physical Therapy Association Combined Sections Meeting*, San Diego, CA, Feb 23-25, 2023.
187. Capin JJ, Wolf TL, Heck J, Smith CS, Lennon SL, **Hunter SK**, Farquhar WB, Piacentine LB. Long-Term Benefits and Challenges of Competitive Sport: The Lived Experience of Midlife Former College Athletes. Poster. *NIH High-Risk, High-Reward Research Symposium*: Bethesda, Maryland, June 8-9, 2023.
186. Arney BE, Fulton TJ, Kern LM, Wrucke DJ, Sundberg CW, **Hunter SK**. Deoxyhemoglobin Kinetics and Fatigability of the Knee Extensor Muscles in Individuals with Prediabetes. Poster presentation at *Midwest TL1 Summit 2023*. Milwaukee, WI, September 2023.
185. Arney BE, Fulton TJ, Vosters EE, Kern LM, Wrucke DJ, Sundberg CW, Hunter SK. Blood flow and fatigability of the knee extensor muscles in individuals with prediabetes. Poster presentation at *Translation Science Conference*, Washington D.C., April 2023.
184. Rouhani M, Hoeger Bement, M, **Hunter SK**, Obeidat AZ, Zackowski KM, and Ng AV. Classification of Pain and its Relationship to Depression and Fatigue in Multiple Sclerosis *Consortium of Multiple Sclerosis Centers Annual Meeting*, Aurora, CO, May 31 – June 3, 2023.
183. Anderson EG., Uhrich TD., Opielinski LE., Kroner KM., Lessila SV., Haischer MH., Hoeger Bement, M, Piacentine, LB., Papanek, PE., **Hunter SK**, Danduran MJ. *Persistent Effects of COVID-19 on Oxygen Responses to Low Intensity Exercise*. *American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
182. Haischer MH, Opielinski LE, Mirkes LM, Uhrich TD, Bollaert RE, Danduran MJ, Hoeger Bement M, Piacentine LB, Papanek PE, **Hunter SK**. *Acceleration and Deceleration Capacity of Heart Rate is Impaired in COVID-19 Survivors*. *American College of Sports*

Medicine Annual Meeting, Denver, CO, May 30 – Jun 3, 2023.

180. Kroner KM, Lessila SV, Weibye BI, Opielinski LE, Mirkes LM, Haischer MH, Uhrich TD, Piacentine LB, Papanek PE, **Hunter SK**, Hoeger Bement M. *Persistent Effects of COVID-19 on Pain Intensity and Distribution. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
179. Lessila SV, Kroner KM, Opielinski LE, Weibye BI, Uhrich TD, Haischer MH, Bollaert RE, Beilfuss RN, Piacentine LB, Papanek PE, **Hunter SK**, Hoeger Bement M. *Physical Activity Levels Before and After Acute Coronavirus Infection and the Relation to Pain. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
178. Opielinski LE, Uhrich TD, Kroner KM, Lessila SV, Anderson EG, Bollaert RE, Danduran MJ, Beilfuss RN, Haischer MH, Mirkes LM, Greiving HJ, Hoeger Bement M, Piacentine LB, Papanek PE, **Hunter SK**. *Physical Activity and Acute COVID-19 Symptoms Influence Long COVID. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
177. Piacentine LB., Uhrich TD., Haischer MH., Opielinski LE., Anderson EG., Kroner KM., Lessila SV., Hoeger Bement M, Papanek PE., **Hunter SK**. *Cognitive and Psychological Symptoms After COVID: Relation to Exercise. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
176. Zhou Z, Bean T, Nguyen J, Klevenow E, Uhrich T, Schmit B, **Hunter SK**, Durand M, Hyngstrom A. *Sex-Specific Impact of Stroke on Maximal Oxygen Consumption During a Graded Exercise Test. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
175. Fulton TJ, Sundberg CW, Arney BE, Kern LM, Wrucke DJ, **Hunter SK**. *Deoxyhemoglobin Kinetics and Fatigability of the Knee Extensors in Young and Older Adults. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023.
174. Atkinson MA, Linde JJ, **Hunter SK**. *Sex Differences in Performance of Elite Youth Track and Field Athletes. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
173. Mirkes LM, Boos ZP, Heck J, Wolf TL, Farquhar WB, Lennon SL, Smith CS, **Hunter SK**, Creasy SA, Capin JJ. *College Varsity Athletes Have Longer and More Variable Sleep Patterns Than Matched Non-Athlete Peers. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
172. Capin JJ, Wolf TL, Heck J, Smith CS., Lennon SL, **Hunter SK**, Farquhar WB, Piacentine LB. *Long-Term Benefits and Challenges of College Athletics: The Lived Experience of Midlife Former College Athletes. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
171. Klevenow EA., Linde JJ., Atkinson MA, Vosters EE, Kindy SL., Mason AP, Nelson SK., Rainwater KAH, Taylor PV, Uhrich TD, **Hunter SK**. *Underrepresentation of Women Participants in Exercise Science and Physiology Research is Associated with Authorship. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
170. Bueckers EP., Linde JJ., Atkinson MA., Klevenow EA., **Hunter SK**. *Increased Representation of Women on Editorial Boards of Exercise Science and Physiology Research Journals. American College of Sports Medicine Annual Meeting*, Denver, CO, May 30 – Jun 3, 2023
169. Zepeda CS., Teigen LE., Fitts RH., **Hunter SK**., Sundberg CW. *Effects of Elevated H^+ and P_i on the Force-pCA Relationship of Skeletal Muscle Fibers from Young and Older Adults. American Physiological Society Summit*, Long Beach, CA, April 19-22, 2023.
168. Arney BE., Fulton TJ., Vosters EE., Kern LM., Wrucke DJ., Sundberg CW., **Hunter SK**. *Blood Flow and Fatigability of the Knee Extensor Muscles in Individuals with Prediabetes. American Physiological Society Summit*, Long Beach, CA, April 19-22, 2023.
167. Linde JJ, Klevenow EA., Atkinson MA., Vosters EE., Bueckers EP., Quinn ME., **Hunter SK**. *Underrepresentation of Women Participants in Exercise Science and Physiology Research is Associated with Authorship: A Historical Perspective. American Physiological Society Summit*, Long Beach, CA, April 19-22, 2023.
166. Kern LM., Zepeda CS., Fulton TK., **Hunter SK**., Sundberg CW. *Interplay Between Contractile Efficiency and Fatigability of the Knee Extensors in Young and Older Adults. American Physical Therapy Association Combined Sections Meeting*, San Diego, CA, Feb 23-25, 2023.

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165. Zhou, Z; Alqahtani, S; Nguyen, J; Raab, SC; Kroll, ZA; Durand, MJ; Schmit BD; **Hunter, SK**; Hyngstrom, AS. *Sex Differences in Neuromuscular Fatigability During Submaximal Isometric Knee Extension Exercise Post-Stroke. International Stroke Conference. 2022*

164. Arney, B. E., Fulton, T. J., Vosters, E. E., Kern, L. M., Wrucke, D. J., Sundberg, C. W., & **Hunter SK**. Blood Flow and fatigability of the knee extensor muscles in individuals with prediabetes. *CTSI Midwest TL1 Summit Poster Presentation*, 2022.
163. Arney, B. E., Fulton, T. J., Vosters, E. E., Kern, L. M., Wrucke, D. J., Sundberg, C. W., & **Hunter SK**. Blood Flow and muscle fatigue of the leg muscles in people with prediabetes. Milwaukee Regional Research Forum Poster Presentation, CTSI, 2022.
162. Raab SC, Zhou Z, Alqahtani S, Nguyen J, Kroll ZA, Durand MJ, Schmit BD, **Hunter SK**, Hynstrom AS. Variability of Motor Performance Over Multiple Maximal Effort Trials Increases Post-Stroke *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
161. Sundberg CW, Fulton TJ, Kern LM, Arney BE, Wrucke DJ, **Hunter SK**. Blood flow and fatigability of the knee extensor muscles in young and older adults. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022
159. Wrucke DJ, **Hunter SK**, Sundberg CW. Mechanisms of Age-Related Power Reduction in the Knee Extensor Muscles. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022
158. Arney BE, Fulton TJ, Sundberg CW, **Hunter SK**. Effects of Ischemic Conditioning on Strength, Voluntary Activation, and Contractile Properties in Older Adults. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022
157. Fulton TJ, Arney BE, Sundberg CW, **Hunter SK**. Ischemic conditioning and fatigability of the knee extensors in young and older adults. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022
156. Nesburg RA, Mason A, Fitzsimmons B, **Hunter SK**. Participation Rates of Female and Male Runners Predict Marathon Performance. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
155. Mason A, Fitzsimmons B, Nesburg RA, **Hunter SK**. Sex Differences in Marathon Performance are Larger in the Past Decade than Expected Physiologically. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
154. Fitzsimmons B, Mason A, Nesburg RA **Hunter SK**. Increased Marathon Participation in the Last Decade is Driven by Women and Older Runners. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
153. Rainwater KAH, Nesburg RA, Zhao H, Keenan KG, **Hunter SK**. Sex Differences in the Age and Performance of the World's Top Swimmers. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
152. Anderson EG., Uhrich TD, Opielinski LE., Bialkowski W, Haischer MH., Beilfuss RN., Nesburg RA., Hoeger Bement, M, Piacentine, L. B., **Hunter SK**, Papanek, PE. *Body Composition in COVID-19 Survivors*. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
151. Mirkes LM, Haischer MH, Opielinski LE, Uhrich TD., Nesburg RA., Hoeger Bement, M, Papanek, P E, Piacentine LB., **Hunter SK**. *Persistent Effects of COVID-19 on Lower-Limb Strength and Fatigability*. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
150. Beilfuss RN, Opielinski, L. E., Haischer, M. H., Uhrich, T. D., Nesburg, R. A., Piacentine, L. B., Papanek, P. E., Hoeger Bement, M., **Hunter, S. K**. *Impact of COVID-19 Infection on Activity Levels, Perceived Fatigue, and Mental Health*. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
149. Opielinski LE, Uhrich TD, Beilfuss RN., Mirkes, L M., Zirgaitis, G. H., Bialkowski, W., Bollaert, R. E., Danduran, M. J., Piacentine, L. B., Hoeger Bement, M. K., Papanek, P. E., **Hunter, S.K**. Physical activity before and after COVID-19. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
148. Weibye BI, Schmit E, Zirgaitis GH, Opielinski LE, Piacentine, LB., K., Papanek, PE., **Hunter, SK**., Hoeger Bement, M. *Pain Perception at Rest and with Movement Following Coronavirus Disease*. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
147. Piacentine, L. B., Johnson, N. L., Barbosa, H. C., Opielinski L.E., Papanek, P. E., Hoeger Bement, M., **Hunter, SK**, Haglund, K. A. *Exercise After COVID-19 Infection: A Qualitative Study*. *American College of Sports Medicine Annual Meeting*, San Diego, CA, May 31 – Jun 4, 2022.
146. Barbosa, H. C., Johnson, N. L., Papanek, P. E., Hoeger Bement, M., **Hunter, SK**, Haglund, K. A., Piacentine, L. B., *Interpersonal relationships and the COVID-19 pandemic*. Southeastern Wisconsin Nursing, 2022.
145. Piacentine, L. B., Johnson, N. L., Barbosa, H. C., Papanek, P. E., Hoeger Bement, M., **Hunter, SK**, Haglund, K. A. *The lived experience of COVID-19*. Midwest Nursing Research Society, 2022.
144. Sundberg CW, Teigen LE, **Hunter SK**, Fitts RH. Cumulative effects of H+ and Pi on peak power of skeletal muscle fibers from young and older adults. *Experimental Biology*, Philadelphia, April 2-5, 2022

143. Nesburg RA, Mason A, Fitzsimmons B, **Hunter SK**. Sex differences in the Chicago Marathon: A Window into The Sampling Bias in Rehabilitation. *Physical Therapy Association of Illinois Meeting*, Feb 2022

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142. Zirgaitis GH, Opielinski L, Uhrich TD, Haischer M, Danduran M, Mirkes L, Nesburg R, Beilfuss R, Bement M, Piacentine L, Papanek P, **Hunter SK**. Long COVID-19 impact on physical function in males vs females. *Marquette University's Honor's Summer Undergraduate Research Presentations*, Milwaukee, WI, Nov 11, 2021.
141. Nesburg R, Opielinski L, Uhrich T, Haischer M, Danduran M, Mirkes L, Zirgaitis G, Beilfuss R, Bement M, Piacentine L, Papanek P, **Hunter SK**. COVID-19 Impact on physical function. *Marquette University's College of Health Science Summer Undergraduate Research Presentations*, Milwaukee, WI, Aug 6, 2021.
140. Layden J, Olsen E, LeVan J, Smith L, Nemanich S, **Hunter SK**, & Iuzzini-Seigel J. Physical experience of children with CAS: Survey results from 1100 parent respondents. *Annual Convention of the Apraxia Kids Association*, July 2021, Virtual.
139. **Hunter SK**. The Aging Neuromuscular System: Fatigability of Limb Muscles. *American College of Sports Medicine Annual Meeting*, Jun 1-5, 2021, Virtual.
138. **Hunter SK**. Sex Differences in Performance: Historical Perspectives. *American College of Sports Medicine Annual Meeting*, Jun 1-5, 2021, Virtual.
137. Arney BE, Kuplic A, Adam M, Sundberg CW, **Hunter SK**. Mechanisms of age-related power reduction and fatigability of the upper extremity. *American College of Sports Medicine Annual Meeting*, Jun 1-5, 2021, Virtual.
136. Fulton TJ, Sundberg CW, Arney BE, **Hunter SK**. Sex differences in the speed duration relationship across the lifespan. *American College of Sports Medicine Annual Meeting*, Jun 1-5, 2021, Virtual.
135. Iuzzini-Seigel, J., Layden, J., Olsen, E., Smith, L., LeVan, J., Nemanich, S. T., **Hunter, S.K.** "Physical Experience of Children with CAS: Survey results from 1100 parent-respondents," ASHA, Washington DC, March 2021.
134. Sara LK, Yang K, Hart MR, Bement MH, **Hunter SK**. Pressure-pain thresholds at baseline and in response to isometric exercise in Achilles tendinopathy. *Translational Science 2021: Annual Meeting of the Association for Clinical and Translational Science*, Mar 2021, Virtual.
133. Sara LK, Yang K, Hart MR, Bement MH, **Hunter SK**. Fatigability and pain with Achilles tendinopathy. *Combined Sections Meeting of the American Physical Therapy Association*, Feb 2021, Virtual.

2020

132. Sara LK, Yang K, Hart MR, **Hunter SK**. Maximal Isometric and Dynamic Plantar Flexor Strength in Achilles Tendinopathy. *Combined Sections Meeting of the American Physical Therapy Association*, Denver, CO, Feb 14, 2020.

2019

131. Hyngstrom A, **Hunter SK**, Zhou, Z, Eng M. Sex differences in neuromuscular fatigability post-stroke. *Forward Thinking Poster Session*, Marquette University, Milwaukee, Dec 3, 2019.
130. **Hunter SK**. Fatigability in People with Type 2 Diabetes and Prediabetes. *Canadian Society of Exercise Physiologists Annual Meeting*, Kelowna, BC, Canada, Nov 8, 2019.
129. Delgadillo JD, Sundberg CW, Kwon M, **Hunter SK**. Knee extensor fatigability during different resistance exercise protocols in young and old adults. Poster presentation at the *Society for Neuroscience 49th Annual Meeting*, Chicago, IL, October 21, 2019.
128. Hart MR*, Sara LK, Geiser M, **Hunter SK**. Strength and fatigability in Achilles tendinopathy patients. *College of Health Science Summer Undergraduate Research Presentations*, Marquette University, Milwaukee, Aug 2, 2019.
127. Yoon T, Vanden Noven ML, **Hunter SK**. Aging and altered brain activation during isometric contractions with the lower limb. *American College of Sports Medicine*, Orlando, FL, May 28 - Jun 1, 2019.
126. Sara LK, Hickok SB, **Hunter SK**. The single-leg heel raise test: a poor clinical surrogate for maximal strength of the plantar flexor muscles. *Combined Sections Meeting of the American Physical Therapy Association*, Washington D.C., Jan 25, 2019.
125. **Hunter SK**. Motor unit activity in leg muscles of people with type 2 diabetes. *American College of Sports Medicine*, Orlando, FL, May 28 - Jun 1, 2019.

2018

124. Sara LK, Hickok SB, Yang K, and **Hunter SK**. Central Mechanisms, Not Sex Differences, Predict Plantar Flexor Fatigue for an Intermittent Maximal Isometric Contraction Task. *Integrative Physiology of Exercise (ACSM and APS)*, San Diego, CA, Sept 6-8, 2018.
123. Senefeld J, Keenan KG, Negro F, Ryan KS and **Hunter SK**. Fatigability and Motor Unit Behavior of Lower Limb Muscles in People with Type 2 Diabetes. *Integrative Physiology of Exercise (ACSM and APS)*, San Diego, CA, Sept 6-8, 2018.
122. Yang K, Sara LK, Hickok SB, **Hunter SK**. Mechanisms of Plantar Flexor Fatigue in Response to a Single Leg Heel Raise Task. *Marquette University's College of Health Science Summer Undergraduate Research Presentations*, Milwaukee, WI, Aug 3, 2018.
121. D'Astice SE, Senefeld JW, Ryan KS, Schlinder-Delap B, and **Hunter SK**. Mechanisms of Muscle Fatigue in Lower Limb Muscles for People with Type 2 Diabetes. *Marquette University Summer Research Program*, Aug 3, 2018.
120. Senefeld J, Keenan KG, Ryan KS and **Hunter SK**. Fatigability and Motor Unit Behavior of the Dorsiflexor Muscles in People with Type 2 Diabetes. *International Motoneuron Society*, Boulder, CO, June 11-14, 2018.
119. Kwon M, Delgadillo JD, Senefeld J, Sundberg CW, and **Hunter SK**. Activation of Knee Extensor Muscles during Rapid Force Development in Young and Old Men and Women. *International Motoneuron Society*, Boulder, CO, June 11-14, 2018.
118. Ryan K, Senefeld J, D'Astice S, Schlinder-Delap B, and **Hunter SK**. Fatigability of the Dorsiflexor Muscles in People with Type 2 Diabetes and Controls. *American College of Sports Medicine Annual Meeting*, Minneapolis, MN, May 29 - Jun 2, 2018.
117. Berardi G, Eble C, Senefeld J, **Hunter SK** and Hoeger Bement M. Are isometric and dynamic contractions equally effective in providing acute pain relief? *American Pain Society Scientific Summit*, Anaheim, CA, March 4-6, 2018.
116. D'Astice S, Senefeld J, Harmer AR, and **Hunter SK**. Increased Cardiovascular Response to a 6-minute Walk Test in People with Type 2 Diabetes. *Combined Sections Meeting, American Physical Therapy Association*, New Orleans, LA, February, 2018.

2017

115. Hanson ME, Hoeger Bement M, **Hunter SK**, Kaugers A, Stolzman S and Harkins AL. Weight Status and Academic Bias in Female Adolescents. *College of Health Science Summer Undergraduate Research Presentations*, Marquette University, Aug 4, 2017.
114. Schulte RH, Hoeger Bement M, **Hunter SK**, Kaugers A, Stolzman S and Harkins AL. Physical Activity, Physical Fitness, and Academic Achievement in Female High School Students *College of Health Science Summer Undergraduate Research Presentations*, Marquette University, Aug 4, 2017.
113. Hickok SB, Sara LK, **Hunter SK**. Sex Differences in Strength, Fatigability, and Muscle Architecture of the Plantar Flexors in Healthy Young Adults. *College of Health Science Summer Undergraduate Research Presentations*, Marquette University, Aug 4, 2017.
112. Ryan K, Senefeld J, Keenan KG, **Hunter SK**. Mechanisms of fatigability of the dorsiflexor muscles in people with Type 2 diabetes. *College of Health Science Summer Undergraduate Research Presentations*, Marquette University, Aug 4, 2017.
111. Kwon M, Delgadillo JD, Senefeld JW, Sundberg CW. **Hunter SK**. Activation of Knee Extensor Muscles During Rapid Force Development in Men and Women. *American College of Sports Medicine*, Denver, CO, May 30 – Jun 3, 2017.
110. Senefeld J, Lukaszewicz KL, Limberg JK, and **Hunter SK**. Leg blood flow and fatigability in people with Type 2 Diabetes. *American College of Sports Medicine*, Denver, CO, May 30 – Jun 3, 2017
109. Harkins, A., Hoeger Bement, M., **Hunter, S.K.**, Kaugars, A. S., Stolzman, S. "Influence of Weight Status & Physical Fitness on Academic Achievement in All-Female College Prep High School," Combined Sections Meeting, American Physical Therapy Association, San Antonio, TX. (February 2017).

2016

108. Hassanlouei H, Sundberg CW, Kuplic A, and **Hunter SK**. Peripheral and Central Contributions to Muscle Fatigue During Dynamic Exercise with Age. *9th International Congress on Physical Education and Sport Sciences*, Tehran, Iran, March 9 -10, 2016.
107. Deering R, Senefeld J, Pashibin T, Cruz M, Brazauskas R, Neumann D, and **Hunter SK**. Strength and Fatigability of the Trunk Flexor Muscles in Postpartum Women is Impaired up to 26 Weeks after Delivery. *CTSI Regional Research Forum*, Milwaukee, WI, October, 2016.

106. Senefeld J, Harmer AR, and **Hunter SK**. Greater Fatigability among type 2 diabetics without Neuropathy is not Associated with Neuromuscular Propagation or Corticomotor Excitability. *International Society of Electromyography and Kinesiology*, Chicago, IL, July 2016.
105. Rozand V, Senefeld J, Hassanlouei H, and **Hunter SK**. Is there an age difference in voluntary activation during maximal dynamic contractions with elbow flexor muscles? *International Society of Electromyography and Kinesiology*, Chicago, IL, July 2016.
104. Smith AE, Hassanlouei H, Sundberg CW, Kuplic A, **Hunter SK**. Physical activity modifies corticospinal excitability of the lower extremity in young and old adults. *Poster presentation at Oral Nanosymposium at the Society for Neuroscience 46th Annual Meeting*, San Diego, CA. November 12-17, 2016.
103. Sundberg CW, Hassanlouei H, Kuplic A, **Hunter SK**. Mechanism for the age-related increase in power loss during fatiguing dynamic contractions in men and women. *Poster presentation at the Integrative Biology of Exercise VII*, Phoenix, AZ. November 4-6, 2016.
102. Deering R & **Hunter SK**. Abdominal Muscle Function, Pain Perception and Functional Mobility in Women After Pregnancy. *Presented at the North American Spine Society Annual Meeting*, Boston, MA October 26-29, 2016.
101. Harkins A, Hoeger Bement M, Hunter SK, Kaugars A, Stolzman S. Project WISH: Wellness Initiative for Student Health. Submitted for Presentation at the 2016 *American Society for Clinical Laboratory Science Annual Meeting*, Philadelphia, PA, August 1-4, 2016.
100. Deering R, Senefeld J, Pashibin T, Nisivaco S, Lemens J, Bement M, Neumann D, **Hunter SK**. Novel Clinical Test of Fatigability of the Lumbopelvic Stabilizing Muscles in Postpartum & Nulliparous Women. *Wisconsin Physical Therapy Association Spring Meeting*, April 14-15, 2016, Middleton, WI.
99. Deering R, Senefeld J, Pashibin T, Cruz M, Neumann D, Bement M, **Hunter SK**. Postpartum Women Demonstrate Decreased Abdominal Muscle Strength and Decline in Self-Reported Physical Activity Between 8 Weeks and 26 Weeks Postpartum. *Wisconsin Association for Perinatal Care Annual Conference*, Elkhart Lake, WI, April 25, 2016,
98. Sparks S, Hesprich K, Benjamin N, Stolzman S, Harkins A, Hoeger Bement M, **Hunter SK**, Kaugars A. Influences of Body Image Factors on Self-Perceived Quality of Life. *Poster Presentation at the 2016 Wisconsin Psychological Association Annual Convention*, Middleton, WI, April 13, 2016.
97. Battis N, Pardej S, Benjamin N, Stolzman S, Harkins A, Hoeger Bement M, **Hunter SK**, Kaugars A. Relationships Among Emotion Regulation, Coping, and Body Image in a Community Sample of Adolescents. *Poster Presentation at the 2016 Wisconsin Psychological Association Annual Convention*, Middleton, WI, April 13, 2016.
96. Hassanlouei H, Sundberg CW, Kuplic A and **Hunter SK**. Is there a sex difference with aging in stimulus-response characteristics of the lower limb? To be presented at the *American College of Sports Medicine National Annual Meeting*, Boston, MA, May 31 – June 4, 2016. *Med Sci Sports Exerc.* 2016 May;48(5 Suppl 1):414. doi: 10.1249/01.mss.0000486246.06948.35.
95. Sundberg CW, Hassanlouei H, Kuplic A and **Hunter SK**. Increased fatigability of older women performing high-velocity contractions is explained by mechanisms within the muscle. *American College of Sports Medicine National Annual Meeting*, Boston, MA, May 31 – June 4, 2016. *Med Sci Sports Exerc.* 2016 May;48(5 Suppl 1):492. doi: 10.1249/01.mss.0000486478.32231.bd.
94. Deering R, Senefeld J, Pashibin T, Lemley K, Cruz M, Neumann D, and **Hunter SK**. Strength and fatigability of the trunk flexor muscles in postpartum women. *American Physical Therapy Association*, Anaheim, CA, Feb 17-20 2016.

2015

93. Lee AC, Baxtor J, Eischer C, Gage M, **Hunter SK**, Yoon T. Muscle fatigability from repeated lengthening contractions in young men and women. *Society of Neuroscience Abstracts*, #424.13, 2015. *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.
92. Senefeld J, Pereira HM, Elliott N, Yoon T, and **Hunter SK**. Mechanisms of knee extensor muscle fatigability in men and women after isometric and dynamic contractions. *Society of Neuroscience Abstracts*, #424.12, 2015. *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.
91. Berrios R, Kirking M, Kuhnen H, **Hunter SK**, Schmit B, Hyingstrom AS. Fatiguing contractions of paretic knee extensors do not exacerbate stretch reflex responses. *Society of Neuroscience Abstracts*, #67.15, 2015. *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.
90. Murphy SA, Berrios R, **Hunter SK**, Negro F, Farina D, Nelson A, Keenan K, Schmit B, Hyingstrom AS. Modulation of motor units during repeated contractions post-stroke. *Society of Neuroscience Abstracts*, #160.15, 2015. *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.

89. Bathon K, Onushuko T, Nguyen J, McGonigle E, Geoffroy, N, Ketchum N, Negro F, Farina D, **Hunter SK**, Schmit B, Hyngstrom AS. Changes in motor unit firing behavior following maximal efforts post stroke. *Society of Neuroscience Abstracts*, #324.20, 2015 *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.
88. Hassanlouei H, Sundberg CW, Senefeld JW, Kuplic A and **Hunter SK**. Motor cortical input-output characteristics of the lower extremity in young and old adults. *Society of Neuroscience Abstracts*, # 242.05, 2015. *Society of Neuroscience Annual Meeting*, Chicago, IL, October 16-21, 2015.
87. Linzmeier C, Senefeld J, Eble C, Harkins A, Pierre I, Schlinder-Delap B, Harmer A, and **Hunter SK**. Neuromuscular Fatigue among Individuals with Type 2 Diabetes and Pre-Diabetes Compared with Matched Controls. Marquette University Biomedical Sciences Summer Research Program, July 2015.
86. Pashibin T, Deering R, Senefeld J, Cruz M, Lemley K, Hoeger-Bement B, Linzmeier C, and **Hunter SK**. Postpartum Women Demonstrate Decreased Abdominal Muscle Strength and Increased Fatigability Compared to Nulliparous Women. Marquette University Biomedical Sciences Summer Research Program, July, 2015.
85. Nino de Guzman M, **Hunter SK**, and Keenan KG. Sex differences in elite indoor rowing times: the potential role of participation. University of Wisconsin - Milwaukee, Milwaukee, WI. Poster presentation at the summer undergraduate research program. June, 2015.
84. Harmer, A., Senefeld, J., Harkins, A., Schlinder-Delap, B., Deering, R., Danduran, M. J., **Hunter, S.K.** World Congress of Physical Therapy, "Heightened cardiovascular stress during the six-minute walk test among people with type 2 diabetes," *World Confederation for Physical Therapy*, Singapore. May 2015.
83. Pereira HM, Esser T, Schlinder-Delap B, Senefeld J, Sundberg C, Deering R, **Hunter SK**. Cognitive demand decreases Steadiness and dexterity with Aging. *American College of Sports Medicine National Annual Meeting*, San Diego, CA, May 26 - 30, 2015.
82. Deering R, Senefeld J, Pashibin T, Pereira H, Hoeger-Bement M, Eickmeyer S, **Hunter SK**. Fatigability and steadiness of the trunk flexor muscles in young healthy adults. *American College of Sports Medicine National Annual Meeting*, San Diego, CA, May 26 - 30, 2015.
81. Senefeld J, Smith C, **Hunter SK**. Sex differences in ultra-marathon running: performance and participation. *American College of Sports Medicine National Annual Meeting*, San Diego, CA, May 26 - 30, 2015.
80. Sundberg CW, Nelson CR, Trappe S, **Hunter SK**, Fitts RH. Depressive effects of fatiguing metabolites, H⁺ and Pi, on maximal isometric force and peak power in young and old human muscle fibers. *American College of Sports Medicine National Annual Meeting*, San Diego, CA, May 26 - 30, 2015.

2014

79. Yoon T, Pereira HM, Nielson KA, Prost R, Nelson P, **Hunter SK**. Brain activation is greater in older women during a fatiguing contraction with imposed cognitive demand. *Society of Neuroscience Abstracts*, # 170.09, 2014. *Society of Neuroscience Annual Meeting*, Washington DC. 11.16.2014.
78. Pereira HM, Schlinder-Delap B, Negro F, Farina D, Hyngstrom AS, Keenan KG, **Hunter SK**. Steadiness and motor unit activity of the elbow flexor muscles with cognitive demand. *Society of Neuroscience Abstracts*, # 160.19, 2014. *Society of Neuroscience Annual Meeting*, Washington DC. 11.16.2014.
77. Senefeld J, Harmer AR, Pereira M, Yoon T, Schlinder-DeLap B, Deering R, Harkins A, Danduran M, Magill S, Kidambi S & **Hunter SK**. Sex differences In fatigability in individuals with Type 2 Diabetes and pre-diabetes. Presented at the *ACSM Integrative Physiology of Exercise Meeting*, Miami Beach, FI, 09.17 – 09.20.2014
76. Sundberg CW, **Hunter SK**, Bundle M. Sex differences in muscle fatigability during high-intensity cycling exercise. Presented at the *ACSM Integrative Physiology of Exercise Meeting*, Miami Beach, FI, 09.17 – 09.20.2014
75. Pereira HM, Schlinder-Delap B, Negro F, Farina D, Hyngstrom AS, Keenan KG, **Hunter SK**. Sex difference in steadiness and motor unit activity of the elbow flexor muscles with cognitive demand. Presented at the *Musculoskeletal Sex Differences Throughout the Lifespan Research Symposium*, Chicago, Illinois, 07.30 – 08.01. 2014.
74. Hyngstrom AS, Murphy S, Berrios R, **Hunter SK**, Negro F, Farina D, Schmit B, Keenan KG. Stroke-related changes in the motor unit firing behavior during fatiguing contractions. Presented at the *International Motoneuron Meeting*, Halifax, Canada, 07.2014.

73. Durand M, Murphy S, Kirking M, Gutterman D, **Hunter SK**, and Hyngstrom AS. Stroke-related changes in the hyperemic response to exercise and the relationship to neuromuscular fatigue. *Medicine and Science in Sports and Exercise* 46(5). *American College of Sports Medicine National Annual Meeting*, Orlando, FL, 05.28-05.31.2014.
72. Senefeld J, Harmer AR, Pereira M, Yoon T, Schlinder-Delap B, Deering R, Buzzard A, Harkins A, Danduran M, Magill S, Kidambi S & **Hunter SK**. Neuromuscular fatigue in individual with and without type 2 diabetes. *Medicine and Science in Sports and Exercise* 46(5). *American College of Sports Medicine National Annual Meeting*, Orlando, FL, 05.28-05.31.2014.
71. Pereira HM, Schlinder-Delap B, Yoon T, Keenan KG, **Hunter SK**. Cognitive stress and visual gain affects force fluctuations at low forces. *Medicine and Science in Sports and Exercise* 46(5). *American College of Sports Medicine National Annual Meeting*, Orlando, FL, 05.28-05.31.2014.

2013

70. Pereira HM, Spears VC, Schlinder-Delap B, Yoon T, Nielson KA and **Hunter SK**. Sex differences in motor fatigue for old adults in response to increased cognitive demand. *Society of Neuroscience Abstracts*, #89.28, 2013. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.09.2013.
69. Senefeld J, Harmer AR, Pereira H, Yoon T, Schlinder-Delap B, Deering R, Buzzard A, Harkins A, Danduran M and **Hunter SK**. Neuromuscular fatigue in individual with and without Type 2 Diabetes. *Mid West American College of Sports Medicine Annual Meeting*, Merrillville, IN. 11.08-09.2013.
68. Senefeld J, Elliott N, Pereira H, Yoon T, Harmer AR and **Hunter SK**. Sex differences in fatigue following dynamic contractions of knee extensor muscles, *Medicine and Science in Sports and Exercise* 45(5):S363, 2013. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28.2-13 – 06.01.2013.
67. Stevens AA, Senefeld J, Joyner MJ and **Hunter SK**. Sex differences in the world's fastest swimming with advanced age, *Medicine and Science in Sports and Exercise* 45(5):S478, 2013. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28.2-13 – 06.01.2013.
66. Elliott N, Senefeld J, Pereira H, Yoon T, Harmer AR and **Hunter SK**. Sex differences and supraspinal fatigue of the knee extensor muscles in young adults, *Medicine and Science in Sports and Exercise* 45(5):S95-96, 2013. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28.2-13 – 06.01.2013.
65. Lemley K, Coate M, **Hunter SK**. Hoeger Bement, M. Relation between conditioned pain modulation and exercise-induced hypoalgesia in young healthy adults. *American Pain Society Annual Meeting*, New Orleans, LA. 05.08-11.2013.
64. Rybar M, Kuhnen H, Oullette D, Walker E, Berrios Barillas R, Schmit B, **Hunter SK**, Hyngstrom AS. Hip flexor fatigue following sub-maximal concentric contractions and walking function post stroke. *American Physical Therapy Association Combined Sections Meeting*, San Diego, CA. 01.21-24.2013.

2012

63. Pereira HM, Spears VC, Schlinder-Delap B, Yoon T and **Hunter SK**. Age and sex differences in control of force during static contractions with the elbow flexor muscles when cognitive demand is imposed. *Society of Neuroscience Abstracts*, #789.24, 2012. *Society of Neuroscience Annual Meeting*, New Orleans, LA. 10.13-16.2012.
62. Pereira HM, Spears VC, Schlinder-Delap B, Yoon T and **Hunter SK**. Sex differences in response to cognitive demand during a fatiguing contraction in old adults. *The Biannual Meeting of the International Society of Electromyography and Kinesiology*, Brisbane, Australia. 07.18-21.2012.
61. **Hunter SK**, Yoon T, Onushko T and Christou EA. Age-related difference in time to failure of a submaximal fatiguing contraction is associated with modulation of muscle activity. *The Biannual Meeting of the International Society of Electromyography and Kinesiology*, Brisbane, Australia. 07.18-21.2012.
60. Hyngstrom A, Negro F, Kuhnen H, **Hunter SK**, Keenan K, Farina D, Schmit B. Motor unit behaviour following fatigue in stroke survivors. *International Motoneuron Meeting*, Sydney, Australia. 07.26.2012.
59. Pereira HM, Spears V, Yoon T, Schlinder-Delap B and **Hunter SK**. Cognitive demand increases muscle fatigability of the elbow flexor muscles in young and old adults, *Medicine and Science in Sports and Exercise* 44(5):S127, 2012. *American College of Sports Medicine National Annual Meeting*, San Francisco, CA. 05.30.2012.

58. Senefeld J, Yoon T, Hoeger Bement M, and **Hunter SK**. Sex differences in fatigue during dynamic contractions differs between arm and leg muscles. *Medicine and Science in Sports and Exercise*, 44(5):S97, 2012. *American College of Sports Medicine National Annual Meeting*, San Francisco, CA. 05.30.2012.
57. Yoon T, Senefeld J, Hoeger Bement M, and **Hunter SK**. Age differences in fatigue during dynamic contractions in arm and leg muscles, *Medicine and Science in Sports and Exercise* 44(5):S97, 2012. *American College of Sports Medicine National Annual Meeting*, San Francisco, CA. 05.30.2012.
56. Lemley KJ, Drewek B, Miller L, **Hunter SK** and Hoeger Bement M. Pain relief in older adults following static contractions is not task-dependent, *Medicine and Science in Sports and Exercise* 44(5):S457, 2012. *American College of Sports Medicine National Annual Meeting*, San Francisco, CA. 05.30.2012.
55. Stevens AA and **Hunter SK**. Sex differences in marathon performance with advanced age: nature or nurture? *Medicine and Science in Sports and Exercise*, 44(5):S597, 2012. *American College of Sports Medicine National Annual Meeting*, San Francisco, CA. 05.30.2012.
54. Hyngstrom AS, Negro F, Keenan K, **Hunter SK**, Farina D, and Schmit B. Motor unit behavior following fatigue in stroke survivors. *Cellular and Network Functions in the Spinal Cord Meeting*, Madison, WI. 2012.
53. Hoeger Bement MK, Weyer A, Yoon T, **Hunter SK**. Corticomotor excitability during a noxious stimulus and after exercise in women with fibromyalgia. *American Pain Society Annual Meeting*, Honolulu, HI. 05.17-19.2012.
52. Kirking K, Kuhnen H, Burns E, Christou E, **Hunter SK**, Schmit B. and Hyngstrom A. Impairments in low level force control of hip flexors are associated with clinical measurements of function post stroke. *American Physical Therapy Association Combined Sections Meeting*, Tampa, Florida. 02.2012.

2011

51. **Hunter SK**, McNeil CJ, Butler JE, Gandevia SC and Taylor JL. Short-interval intracortical inhibition and intracortical facilitation are decreased by fatigue during submaximal isometric contractions *Society of Neuroscience Abstracts*, #278.03, 2011. *Society of Neuroscience Annual Meeting*, Washington DC. 11.12-16.2011.
50. Yoon T, Doyel R, Pereira HM, Keller ML, Nielson KA, Prost R, Nelson PA, and **Hunter SK**. Brain activation is increased in older adults during a fatiguing contraction with imposed cognitive demand. *Society of Neuroscience Abstracts*, #815.11, 2011. *Society of Neuroscience Annual Meeting*, Washington DC. 11.12-16.2011.
49. Vanden Noven ML, Pereira HM, Yoon T, Stevens AA, Nielson KA, and **Hunter SK** Influence of age and cognitive demand on motor output variability and fatigability during sustained isometric contractions. *Society of Neuroscience Abstracts*, #670.18, 2011. *Society of Neuroscience Annual Meeting*, Washington DC. 11.12-16.2011.
48. Hyngstrom AS, Kuhnen H, Kirking KM, **Hunter SK** and, Schmit BD. Impairments in isometric force regulation of the hip flexors post stroke and the relationship with function. *Society of Neuroscience Abstracts*, #589.12, 2011. *Society of Neuroscience Annual Meeting*, Washington DC. 11.12-16.2011.
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46. Yoon T, Stevens AA, Schlinder-DeLap B, Doyel R and **Hunter SK**. Fatigability of the elbow flexor muscles during dynamic contractions in old and very old adults. *Medicine and Science in Sports and Exercise* 43(5), S599; 2011. *American College of Sports Medicine National Annual Meeting*, Denver, CO. 06.03.2011.
45. Stevens AA and **Hunter SK**. Is there a sex difference in performance and participation of marathon runners with increased age? *Medicine and Science in Sports and Exercise* 43(5), S539; 2011. *American College of Sports Medicine National Annual Meeting*, Denver, CO. 06.03.2011.
44. Skelton KW, Stevens AA and **Hunter SK**. Does the age of elite men and women runners differ for the marathon? *Medicine and Science in Sports and Exercise* 43(5), S539; 2011. *American College of Sports Medicine National Annual Meeting*, Denver, CO. 06.03.2011.

2010

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42. Yoon T, Fiantt C, Doyel R and **Hunter SK**. Muscle fatigue of the elbow flexor muscles during dynamic contractions with aging. *Medicine and Science in Sports and Exercise* 42(5), S409; 2010. *American College of Sports Medicine National Annual Meeting*, Baltimore, MD. 06.01-05.2010.
41. **Hunter SK**. Sex differences and muscle fatigue. *Medicine and Science in Sports and Exercise* 42(5), 51; 2010. *American College of Sports Medicine National Annual Meeting*, Baltimore, MD. 06.01-05.2010.
40. Hyngstrom AS, Onushko TL, Heitz R, Rutowski AA, Scanlan S, **Hunter SK** and, Schmit BD Greater neuromuscular fatigue in the paretic leg of stroke subjects during dynamic contractions. *Society of Neuroscience Abstracts* 36, #897.17, 2010. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.13-17.2010.
39. Keller ML, Schlinder-Delap B, Doyel R, Larson G and **Hunter SK**. Muscle fatigability is greater in hand muscles of combat veterans with post-traumatic stress disorder. *Society of Neuroscience Abstracts* 36, #378.13, 2010. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.13-17.2010.

2009

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37. Yoon T, Vanden Noven ML, Verber MD, Nielson KA and **Hunter SK**. The influence of gain of visual feedback and sex on brain activation during isometric contractions. *Society of Neuroscience Abstracts* 35, # 863.3, 2009. *Society of Neuroscience Annual Meeting*, Chicago, IL. 10.17-21.2009.
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34. Keller ML, Pruse J, Schlinder-Delap B, Yoon T, **Hunter SK**. Cognitive stress but not distraction influence the time to task failure for a submaximal fatiguing contraction. *American Physical Therapy Association, Section on Research Retreat*, Monterey, CA. 08.09-13.2009.
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29. Weyer A, Hartley S, Yoon T, **Hunter SK**, Hoeger Bement MK. Exercise attenuates pain-induced increases in corticospinal excitability. Accepted for presentation at the *American Physical Therapy Association Combined Sections Meeting*, Las Vegas, NV. 02.09-12.2009.
28. Hartley SE, Weyer A, **Hunter SK**, Hoeger Bement MK. Experimental pain measurement in people with fibromyalgia. Accepted for presentation at the *American Physical Therapy Association Combined Sections Meeting*, Las Vegas, NV. 02.09-12.2009.
27. Keller ML, Yoon T, Schlinder-Delap B, Pruse J, **Hunter SK**. Supraspinal fatigue contributes to neuromuscular fatigue after a low-force fatiguing contraction. Accepted for presentation at the *American Physical Therapy Association Combined Sections Meeting*, Las Vegas, NV. 02.09-12.2009.

2008

26. Vanden Noven ML, Yoon T, Verber M, Ng A, Nielson K, and **Hunter SK**. Brain activation and modulation of force fluctuations during a fatiguing contraction of the lower leg. *Society of Neuroscience Abstracts* 34, 2008. *Society of Neuroscience Annual Meeting*, Washington DC. 11.19-22.2008.
25. Griffith EE, Yoon T, Farinella J, Ng AV & **Hunter SK**. Type of feedback and time to task failure in young and old adults. *Medicine and Science in Sports and Exercise* 40(5); S448, 2008. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28-31.2008.
24. Keller M, Harkins A, Yoon T, Schlinder-Delap B & **Hunter SK**. Cognitive and physical stressor increases salivary cortisol before and after a low – force fatiguing contraction. *Medicine and Science in Sports and Exercise* 40(5), S349; 2008. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28-31.2008.
23. Ng AV, Vanden Noven ML, Cowdy J, Farinella J, Heyer E & **Hunter SK**. Increased muscle fatigability may contribute to cancer-related fatigue in a breast cancer survivor undergoing chemotherapy. *Medicine and Science in Sports and Exercise* 40(5), S290; 2008. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28-31.2008.
22. Yoon T, Vanden Noven ML, Verber M, Ng A, Nielson K, and **Hunter SK**. Brain activation during isometric ankle dorsiflexion at different contraction intensities. *Society of Neuroscience Abstracts* 34, 2008. *Society of Neuroscience Annual Meeting*, Washington DC. 11.19-22.2008.
21. Yoon T, Schlinder-Delap B & **Hunter SK**. Time to failure and muscle activation of a fatiguing contraction alters with practice and age. *Medicine and Science in Sports and Exercise* 40(5), S447; 2008. *American College of Sports Medicine National Annual Meeting*, Indianapolis, IN. 05.28-31.2008.
20. Bement MKH, Lewis A, DiCapo J, Rasiarmos R, **Hunter SK**. Mental stress alters pain perception. *American Physical Therapy Association Combined Sections Annual Meeting*, Nashville TN. 02.2008.
19. Bement MKH, Keller ML, Harkins AL, **Hunter SK**. Cortisol levels before and after isometric contractions are not influenced by the menstrual cycle. *American Pain Society Annual Meeting*, Tampa, FL. 08.2008.

2007

18. **Hunter SK**, Yoon T, Pate B, Rodriguez TM, Christou EA. Low-frequency oscillations in force are associated with heart rate. *Society for Neuroscience Abstracts*, 33, 2007. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.02-04.2007.
17. Yoon T, Schlinder-Delap B, Keller M, & **Hunter SK**. Supraspinal fatigue increased during a low-intensity sustained fatiguing contraction in young and old adults. *Society for Neuroscience Abstracts*, 33, 2007. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.02-04.2007.
16. Hawe R, Bly SC, Yoon T, **Hunter SK**. Increased limb support decreases muscle fatigue for the dorsiflexor muscles. *Annual Meeting of the Biomedical Engineering Society*, Los Angeles, CA. 09.26-27.2007.
15. Ellingson A, Wong S, **Hunter SK**, Ng AV. Type of depression influences corticospinal responses: a pilot study. *Annual Meeting of the Biomedical Engineering Society*, Los Angeles, CA. 09.26-27.2007.
14. Yoon T, Schlinder-Delap B, Griffith EE & **Hunter SK**. Fluctuations in motor output are altered with fatigue and age. *Medicine and Science in Sports and Exercise* 39(5); S267, 2007. *American College of Sports Medicine National Annual Meeting*, New Orleans, LA. 05.2007.
13. Farinella JM, Corrado G, Griffith E, Jablonski K, Romanowich D, Ng AV & **Hunter SK**. Task-dependent muscle fatigue in the tibialis anterior. *Medicine and Science in Sports and Exercise* 39(5); S263, 2007. *American College of Sports Medicine National Annual Meeting*, New Orleans, LA. 05.2007.
12. Griffith EE, Schlachter KM, Kufahl TD, Ng AV & **Hunter SK**. The influence of active hyperemia on the sex difference in time to failure of an intermittent fatiguing contraction. *Medicine and Science in Sports and Exercise* 39(5);S471, 2007. *American College of Sports Medicine National Annual Meeting*, New Orleans, LA. 05.2007.

2006

11. Hoeger Bement MK, Dicapo JM, Rasiarmos R, Lewis A, **Hunter SK**. Phase of the menstrual cycle does not affect exercise-induced analgesia, *American Physical Therapy Association, Combined Sections Meeting*, Boston, MA., 02.2007.

10. Griffith EE, Yoon T, Schlinder-Delap B & **Hunter SK**. Fatigue within the central nervous system contributes to failure of low-intensity sustained contractions. *American Physical Therapy Association Combined Sections Meeting*, Boston, MA. 02.2007.
9. Yoon T, Schlinder-Delap B & **Hunter SK**. Performance of a cognitive task impairs time to failure and steadiness for a submaximal fatiguing contraction. *Society for Neuroscience Abstracts*, 32, 2006. *Society of Neuroscience Annual Meeting, Atlanta, GA 10.14-10.18.2006*.
8. **Hunter SK**, Yoon T, Lepers R & Schlinder-Delap B. Time to failure for a low-force fatiguing contraction is reduced with exposure to a stressor. *Society for Neuroscience Abstracts*, 32, 2006. *Society of Neuroscience Annual Meeting, Atlanta, GA 10.14-10.18.2006*.
7. **Hunter SK**. Neural mechanisms that contribute to muscle fatigue. *Medicine and Science in Sports and Exercise* 38(5); 46, 2006. *American College of Sports Medicine National Annual Meeting, Denver, CO. 05.31-06.03, 2006*.
6. Hoeger-Bement MK, Rasiarimos RL, DiCapo JM, Griffith EE & **Hunter SK**. Sex differences and reductions in pressure-induced pain following submaximal isometric contractions. *Medicine and Science in Sports and Exercise* 38(5); S504, 2006. *American College of Sports Medicine National Annual Meeting, Denver, CO. 05.31-06.03.2006*.
5. Yoon T, Schlinder-Delap B, Griffith EE & **Hunter SK**. Old adults exhibit greater central fatigue for a long duration low-intensity fatiguing contraction than young adults. *Medicine and Science in Sports and Exercise* 38(5); S179, 2006. *American College of Sports Medicine National Annual Meeting, Denver, CO. 05.31-06.03.2006*.
4. Schlachter KM, Griffith EE, Ng AV & **Hunter SK**. Active hyperemia and vascular conductance differ in men and women matched for strength for an isometric fatiguing contraction. *Medicine and Science in Sports and Exercise* 38(5); S178, 2006. *American College of Sports Medicine National Annual Meeting, Denver, CO. 05.31-06.03.2006*.
3. Griffith EE, Yoon T, Schlinder-Delap B & **Hunter SK**. Sex differences in muscle fatigability is task dependent and not explained by a difference in central fatigue. *Medicine and Science in Sports and Exercise* 38(5); S179, 2006. *American College of Sports Medicine National Annual Meeting, Denver, CO. 05.31-06.03.2006*.
2. Hoeger-Bement M, Rasiarimos RL, DiCapo JM, Griffith EE, **Hunter SK**. Pain decreases after long duration and low intensity isometric contractions in men and women. *Proceedings of the American Pain Society National Meeting*, San Antonio, TX, 05.2006.
1. Hoeger-Bement M, DiCapo JM, Rasiarimos RL, Griffith EE, **Hunter SK**. Maximal voluntary contractions decrease pressure-induced pain in healthy men and women. *Proceedings of the Physical Therapy Combined Sections Meeting*, San Diego, CA, 02.02-06.2006.

IV. RESEARCH GRANTS

A. ACTIVE GRANTS

EXTRAMURAL AND INTRAMURAL GRANTS | PRINCIPAL INVESTIGATOR | ACTIVE

National Institute of Health [R01 AG077688] (PIs: Hunter, Sundberg) 09.2022 - 04.2027
 Title: *Mechanisms of Fatigability and the Protective Effects of Exercise in People with Diabetes*
 Direct and Indirect Costs: \$3,023,719 (Direct Costs: \$1,991,319)
 Role: PI

National Institute of Health [R01 AG048262] (PIs: Hunter, Sundberg, Fitts) 09.2015 – 04.2026
 Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise*.
 Direct and Indirect Costs: \$3,015,872 (2020-2026)
 Direct costs: \$1,984,164
 Role: PI

EXTRAMURAL GRANTS | CO-INVESTIGATOR | ACTIVE

National Institute of Health NICHD R01 [R01 HD112258] 08.2023 – 07.2028
 Title: *Blood Flow Regulation and Neuromuscular Function Post-Stroke*
 Direct and Indirect Costs: \$3,178,706
 Role: Co-I (Year 1) and consultant (years 2-5) (PIs: A Hyngstrom and MJ Durand)

INTRAMURAL GRANTS (UNIVERSITY OF MICHIGAN) | ACTIVE

Center for Research, Learning and Teaching: Gilbert Whittaker Fund for Improvement of Teaching 05.2025 - present
 Role: Co-I (PI: M. Gross)
 Direct Costs: \$25,000

EXTRAMURAL & INTRAMURAL GRANTS | PRINCIPAL & CO-INVESTIGATOR | SUBMITTED & PENDING

National Institute of Health [R01 AG048262-11] Renewal PIs: Hunter & Sundberg (Univ Wisconsin) Submitted March 05, 2026
Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise.*
Direct and Indirect Costs: \$5,912,838
Role: PI

National Institute of Health NIH [R21] PI: Capin JJ (Marquette Univ) Submitted March 16, 2026
Title: *The Effect of Physical Activity Exposure and Sex on Pain and Lifestyle Behaviors.*
Direct + Indirect costs: \$438,896 (Direct: \$275,000)
Role: Co-I (4.5%)

National Institute of Health NIH [R01] PI: Soliman S (Univ of Michigan) Submitted February 05, 2026
Title: *AI-Driven Muscle Ultrasound and Multimodal Data Fusion for Early Detection and Personalized Risk Stratification of Metabolic Dysfunction.*
Direct costs: \$2,474,746 + Indirects: \$1,318,378
Role: Co-I (3%)

National Institute of Health NIH [1F32 AG101816-01] PI: Jenz, Sophia (Univ of Michigan) Submitted April 05, 2026
Title: *Estradiol's Impact on Neuromuscular Decline and Strength Training Adaptations in Postmenopausal Females.*
Direct costs: \$225,204
Role: Primary Mentor/Sponsor

School of Kinesiology, University of Michigan | KIN-INSPIRE 2026 Submitted March 16, 2026
Title: *Sex Differences in Physical Function and Health Across the Lifespan.*
Costs: \$200,000
Role: PI (MPI with Lane, A and Haus, J)

Strategic Initiative Fund, University of Michigan Submitted February 06, 2026
Title: *Game Changers: The Michigan Center for Innovation in Women's Sport.*
Costs: \$2,600,000
Role: PI (MPI with Ploutz Snyder, L)

B. COMPLETED GRANTS

EXTRAMURAL GRANTS | PRINCIPAL INVESTIGATOR | COMPLETED

- American Heart Association Post-Doctoral Award** to Timothy Fulton 01.2022–12.2023
Title: *Exercise fatigability in older adults: The impact of dietary nitrate supplementation on vascular function and bioenergetics*
Direct Costs: \$140,952.
Role: Primary Mentor (PI: T. Fulton)
- National Institute of Health** Administrative Supplement NIH [R01AG048262-07S1] (Admin Supplement) 09.2021-06.2022
Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise.*
Direct costs: \$250,000
Role: PI (MPI with Christopher Sundberg and Robert Fitts)
- Clinical and Translational Science Institute of Southeast WI Pilot Ensemble Award** 07.2021 – 06.2022
Title: *Persistent Effects of COVID-19 on Physical Function*
Direct Costs: \$35,000
Role: PI
- Clinical and Translational Science Institute of Southeast WI** 06.2020 - 07.2021
Title: *Fatigue and Neuromuscular Function in Adults with Achilles Tendinopathy*
Direct and Indirect Costs: \$50,000
Role: PI (Co-PI with Dr Craig Young, MCW)
- National Institute of Health R01** [R01 AG048262-01A1] 09.2015 – 08.2020
Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise.*
Direct: \$2.1 million
Direct and Indirect Costs: \$2,820,000

- Role: PI (Multiple PI with Robert Fitts)
4. **University of South Australia, Australia** 03.2018 - 05.2018
Visiting Distinguished Thought Leader Scholarship
 Direct: \$11,000
 Role: PI
 5. **National Institute of Health R21** [R21 AG045766] 07.2014 - 05.2017
 Title: *Motor Function in Older Adults: The Importance of Apolipoprotein-E ε4 Inheritance.*
 Direct Costs: \$275,000
 Direct and Indirect Costs: \$420,000
 Role: PI
 6. **Women's Health Research Program at the Medical College of Wisconsin** 03.2015 - 06.2016
 Title: *Neuromuscular Function in Women Postpartum*
 Direct Costs: \$50,000
 Role: PI (Co-PI with M. Cruz)
 7. **National Institute of Aging R15** [R15AG039697] 10.2011 - 09.2014
 Title: *Neuromuscular Fatigue: Sex and Age Differences.*
 Direct Costs: \$273,000
 Direct and Indirect Costs: \$416,000
 Role: PI
 8. **Clinical and Translational Science Institute of Southeast WI Brain Imaging Pilot Grant** 06.2010 - 06.2012
 Title: *Brain Activation and the Stress Response During Motor Performance in Older Adults.*
 Direct costs: \$45,000
 Role: PI
 9. **National Institute of Aging R15** [1R15AG30730] 09.2008 - 10.2011
 Title: *Neuromuscular Fatigue in Old Adults.*
 Direct costs: \$150,000
 Direct and Indirect: \$226,500
 Role: PI
 10. **Clinical and Translational Science Institute of Southeast WI Doctoral Research Grant** 07.2009 - 06.2011
 Title: *The Influence of Posttraumatic Stress Disorder on Motor Impairment in Veterans.*
 Direct costs: \$27,000
 Role: PI
 11. **Dr. Judith Stitt Women's Faculty Scholarship: Wisconsin Women's Health Foundation** 12.2008 - 12.2010
 Title: *Sex Differences in the Stress Response and Motor Performance.*
 Direct costs: \$50,000
 Role: PI
 12. **Medical College of Wisconsin Clinical and Translational Science Institute of Southeast WI Core Facility for Pilot Funding** 10.2008 - 03.2009
 Title: *Brain Activation During Fatiguing Contractions in Young and Old Adults.*
 Direct costs: \$16,000
 Role: PI
 13. **National Institute of Occupational, Safety and Health Pilot Training Grant University of Illinois Chicago** 07.2007 - 06.2008
 Title: *The impact of stress on neuromuscular fatiguing contraction in men and women.*
 Direct costs: \$16,000
 Role: PI
 14. **National Institute of Aging RO3** [AG023183] 10.2004 - 09.2006
 Title: *Task Dependence of Muscle Fatigue of Young and Older Adults.*
 Direct costs: \$82,000
 Direct and Indirect Costs: \$126,990

Role: PI

15. **American Physiological Society Research Career Enhancement Award** 07.2004 - 08.2004
Title: *Transcranial magnetic stimulation in the study of muscle fatigue in young and old men and women.*
Direct costs: \$4,000
Role: PI
16. **American College of Sports Medicine Research Endowment Award** 07.2002 - 06.2003
Title: *Sex differences in muscle fatigue of young and older adults.*
Direct costs: \$9,750
Role: PI

INTRAMURAL GRANTS (MARQUETTE UNIVERSITY) | COMPLETED

1. **Institute for Women's Leadership: Marquette University** 05.2021 -09.2021
Title: *Sex Differences in the Persistent Effects of COVID-19*
Direct Costs: \$12,308
Role: PI
2. **R01 Challenge: Marquette University** 2020-2021
Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise*
Direct Costs: \$30,000
Role: PI
3. **Athletic & Human Performance Research Pilot Award, Marquette University** 11.2018-05.2019
Title: *The Role of Vascular Dysfunction in Fatigue in Adults with Prediabetes and Type 2 Diabetes (PI: K. Lukaszewicz)*
Direct and Indirect Costs: \$15,000
Role: Co-I
4. **Way Klingler Research Fellowship at Marquette University** 07.2014 - 06.2017
Title: *Neuromuscular Fatigue in People with Type 2 Diabetes*
Direct Costs: \$150,000
Role: PI
5. **Women's and Gender Studies Collaborative Research Scholarship** 07.2011 - 12.2011
Title: *Gender Bias in Exercise Performance: Physiology or Participation.*
Direct Costs: \$4,000
Role: PI
6. **Way Klingler Young Scholar Award** 07.2007 - 12.2007
Title: *Brain activation in young and old adults during fatiguing tasks.*
Direct costs: \$32,000
Role: PI
7. **Regular Research Grant and Summer Faculty Fellowship** 07.2007 - 12.2007
Title: *The influence of cognitive stress on fatiguing contractions.*
Direct costs: \$13,285
Role: PI
8. **Faculty Development and Summer Scholarship, College of Health Sciences** 01.2005 - 08.2005
Title: *The role of blood flow in men and women during isometric fatiguing contractions.*
Direct costs: \$6,000
Role: PI
9. **Way Klingler Summer Faculty Scholarship, College of Health Sciences** 05.2004 - 08.2004
Title: *The influence of vascular conductance in the sex differences of muscle fatigue.*
Direct costs: \$3,500
Role: PI

EXTRAMURAL GRANTS | CO-INVESTIGATOR OR MENTOR | COMPLETED

1. **National Institutes of Health, NICHD R01 [R01 HD099340]** 07.2019 – 06.2024

- Title: *Ischemic conditioning and improved motor function post stroke*
 Purpose: Quantify increases in walking speed and leg function after four weeks of ischemic conditioning and treadmill training in chronic stroke survivors.
 Direct and Indirect Costs: \$2,250,072
 Role: Co-I (PIs: A Hyngstrom and MJ Durand)
2. **National Institutes of Health R21** [R21 DC019989-01A1] 09.2022 – 07-2024
 Title: *Exercise as Treatment in Children with Communication Impairments*
 Direct Costs + Indirect: \$403,323
 Direct Costs: \$275,000
 Role: Co-I (PI: J Iuzzini-Seigel)
 3. **National Institutes of Health** [F99AG083283-01 to Zhilun (Andy) Zhou] 09.2023 – 09.2024
 Title: *Sex-Specific Impact of Stroke on Neuromuscular Fatigability in Older Adults*
 Direct Costs: \$36,035
 Role: Co-Sponsor (A Hyngstrom primary sponsor)
 4. **National Institute of Aging Loan Repayment Award** to T. Fulton 07.2021 – 06.2023
 Title: *Exercise fatigability in older adults: The protective effects of dietary nitrate supplementation*
 Direct Costs: \$30,371.
 Role: Primary Mentor (PI: T. Fulton)
 5. **American Heart Association (AHA) Post doctoral Award [19POST34380411]** to C. Sundberg 01.2019 – 12.2020
 Title: Mechanisms of fatigue in older adults: Role of vascular function and bioenergetics Source:
 Direct Costs: \$103,328,
 Role: Mentor/Co-Sponsor
 6. **National Institute of Health (NIA) F31 AG052313** to C. Sundberg 07.2016 – 06.2018
 Title: Mechanisms of neuromuscular fatigue with aging Source:
 Direct Costs: \$55,860
 Role: Primary Mentor/ Sponsor
 7. **National Institute of Health R15** [R15HD090265] 09.2016 - 04.2019
 Title: *Exercise Specificity and Fibromyalgia Pain* (PI: M. Bement)
 Direct Costs: \$300,000
 Direct and Indirect Costs: \$446,152
 Role: Co-I
 8. **National Institute of Health R15** [1R15NS084130] (PI: Hyngstrom A) 04.2014 - 03.2017
 Title: *Neural Mechanisms of Neuromuscular Fatigue Post Stroke.*
 Direct Costs: \$300,000
 Direct and Indirect Costs: \$446,152
 Role: Co-I
 9. **National Institute of Health R21** [R21NS088818] (PI: Hyngstrom A) 07.2014 - 06.2017
 Title: *Impaired Blood Flow and Neuromuscular Fatigue Post Stroke.*
 Direct Costs: \$295,000
 Direct and Indirect Costs: \$445,450
 Role: Co-I
 10. **Clinical & Translational Science Institute of Southeast WI** 04.2013 – 12.2014
Small Pilot Grant for Trainees (PI: Bement M and Stolzman S)
 Title: *Inflammatory Markers, Physical Fitness and Pain in Children.*
 Direct Costs: \$ 49,861
 Role: Consultant
 11. **Clinical & Translational Science Institute of South East WI** 09.2011 - 08.2014
Mentored K12 Award to Dr Allison Hyngstrom (PI: Hyngstrom A)
 Title: *Mechanisms of Neuromuscular Fatigue and Leg Function Post Stroke.*
 Direct Costs: \$386,930
 Role: Co-Mentor

12. **Clinical and Translational Science Institute of South East WI Small Pilot Grant** (PI: Hyingstrom A) 04.2013 - 04.2014
 Title: *Effects of Altered Perfusion on Neuromuscular Fatigue and Leg Function Post Stroke.*
 Direct costs: \$ 26,204
 Role: Co-I
13. **Clinical and Translational Science Institute of South East WI Small Pilot Grant** (PI: Hyingstrom, A) 06.2011 - 06.2013
 Title: *Mechanisms of Neuromuscular Fatigue Post Stroke.*
 Direct costs: \$45,000
 Role: Co-I
14. **American Heart Association Clinical Research Program** (PI: Hyingstrom, A) 01.2010 - 12.2011
 Title: *Leg Muscle Fatigue and Motor Function Post Stroke.*
 Direct Costs: \$110,000
 Role: Co-I
15. **Arthritis Foundation** (PI: Hoeger-Bement, M.) 01.2008 - 12.2011
 Title: *Exercise Induced Pain Relief in Women with Fibromyalgia.*
 Direct costs: \$150,000
 Role: Co-I
16. **National Institute of Occupational, Safety and Health Pilot Training Grant** 10.2009 - 09.2010
University of Illinois Chicago (PI: Yoon, T)
 Title: *Brain Activation and the Stress Response During Motor Performance in Older Adults.*
 Direct Costs: \$20,000
 Role: Co-PI and Mentor
17. **National Institute of Occupational, Safety and Health Pilot Training Grant** 10.2008 - 9.2009
University of Illinois Chicago (PI: Vanden Noven, ML)
 Title: *Cognitive Stress and Neuromuscular Fatigue with Aging.*
 Direct Costs: \$20,000
 Role: Co-I and Mentor
18. **American College of Sports Medicine** (Predoctoral Award for Erin Griffith) 07.2007 - 06.2008
 Title: *Mechanisms of Task Failure with Aging.*
 Direct costs: \$5,000
 Role: Marquette PI and Mentor
19. **Dr Judith Stitt Women's Faculty Scholar Wisconsin Women's Health Foundation** (PI: Johnson, M.) 10.2006 - 09.2008
 Title: *Gender Differences in the Role of Robotic Rehabilitation Therapy after Stroke.*
 Direct Costs: \$50,000
 Role: Co-I
20. **American Pain Society Future Leaders in Pain Management** (PI: Hoeger-Bement, M.) 11.2006 - 10.2007
 Title: *Acute Hormonal Fluctuations as a Mechanism for Exercise-Induced Hypoalgesia.*
 Direct Costs: \$20,000
 Role: Co-I

V. SESSION CHAIR AT PROFESSIONAL MEETINGS

- | | |
|---|------|
| American College of Sports Medicine National Annual Meeting, Virtual
<i>Chair of Highlighted Symposium: Biomechanics and Neural Control of Movement</i>
<i>Title: The Aging Neuromuscular System: Protective Effects of Physical Activity</i> | 2021 |
| American College of Sports Medicine National Annual Meeting, Boston, MA
<i>Chair of Thematic Poster Session: "Fatigue"</i> | 2016 |
| European Congress of Sports Science, Amsterdam, Netherlands
<i>Chair of three sessions</i> | 2014 |
| International Society for Electromyography and Kinesiology, Brisbane, Australia.
<i>Chair of poster session titled "Muscle Fatigue"</i> | 2012 |

American College of Sports Medicine National Annual Meeting, Denver, CO <i>Chair of 2- hour Thematic Poster Session: “Skeletal Muscle Fatigue”</i>	2006
American College of Sports Medicine National Annual Meeting, Denver, CO <i>Co-ordinator and Chair of 2- hour Symposium: “Neural Mechanisms Contributing to Muscle Fatigue”</i>	2006
American College of Sports Medicine National Annual Meeting, Indianapolis, IN <i>Chair of a 2- hour Symposium: “Muscle Fatigue”</i>	2004
American College of Sports Medicine National Annual Meeting, St. Louis, MO <i>Co-ordinator and Chair of 2- hour Symposium: “Sex Differences in Fatigue and Performance”</i>	2002
American College of Sports Medicine National Annual Meeting, Indianapolis, IN <i>Chair of 2- hour Symposium: “Motor Control”</i>	2000

VI. PRESENTATIONS (SEMINARS)

A. INTERNATIONAL PRESENTATIONS (INVITED - OUTSIDE THE USA)

1. Canadian Tanenbaum Institute for Science in Sport - University of Toronto, Canada <i>‘Sex Differences in Athletic Performance and the Transgender Athlete’: Key note speaker</i>	09.26.2025
2. The Hospital Foundation, Adelaide, South Australia, Australia <i>“Age and Sex Differences in Athletic Performance and Motor Performance”</i>	08.13.2025
3. Adelaide University, Adelaide, Australia ARENA: SA Healthy Lifestyle State Research Forum: Keynote <i>“Sex Differences in Athletic Performance and Motor Performance Across the Lifespan”</i>	08.08.2025
4. Adelaide University, Adelaide, Australia. Seminar to Early Career Investigators <i>“How to Increase the Impact of Your Research”</i>	08.06.2025
5. World Athletics Board Virtual, <i>‘The role of Testosterone Suppression in Elite Athletes’</i>	09.20.2024
6. International Society of Electromyography and Kinesiology Biannual Meeting, Nagoya, Japan <i>‘Aging and Motor Performance: The Protective Effects of Exercise’</i>	06.28.2024
7. Canadian Society of Exercise Physiology National Meeting Symposium, Calgary, Canada <i>‘Sex Differences in Neuromuscular Fatigability and Athletic Performance’</i>	10.12.2023
8. European Congress of Sport Sciences Annual Meeting, 2023, Paris, France European College of Sport Science <i>‘Sex Differences in Neuromuscular Fatigability and Athletic Performance’</i>	07.05.2023
9. Europhysiology 2022, Copenhagen, Denmark Sponsored by Physiological Society (London) <i>Sex Differences in Neuromuscular Fatigability and Athletic Performance</i>	09.15.2022
10. FINA Congress at the World Swimming and Diving Championships, Budapest, Hungary <i>“Science behind the FINA Gender Inclusion Policy”</i>	06.19.2022
11. The Biological Basis of Elite Performance, Physiology 2022 Conference, University of Nottingham, England Invited Speaker at the Annual conference of the Society of Physiology, UK <i>“Sex Differences in Fatigability and Athletic Performance”</i>	04.12.2022
12. Nottingham Trent University (England) Physical Activity and the Endocrine System Virtual Conference Invited Seminar: <i>Ageing and Muscle Function of Men and Women: The Wonders of Physical Activity!</i>	07.21.2021
13. School of Sport Science, Nottingham Trent University, UK (Virtual) 12.2020 <i>The Female Athlete: Sex Differences in Fatigue and Athletic Performance</i> https://femaleathletepodcast.buzzsprout.com/914179/6748984-bonus-professor-sandra-hunter-on-fatigue-and-the-physiological-differences-between-men-women	
14. Canadian Society of Exercise Physiologists Annual Meeting, Kelowna, BC, Canada	11.08.2019

Symposium: *'Fatigue in Special Populations'*
"Fatigability in People with Type 2 Diabetes and Prediabetes"

15. **University of South Australia, Adelaide, Australia** 04.18.2018
 Sansom Institute Seminar: *"Age Differences in Performance Fatigability"*
16. **Alliance for Research in Exercise, Nutrition and Activity, University of South Australia, Adelaide, Australia** 04.19.2018
 ARENA: *"Sex Differences in Performance Fatigability"*
17. **Helping Hand Aged Care Facility, North Adelaide, Australia** 04.13.2018
"Ageing and Fatigue: The Protective Effects of Exercise"
18. **International Congress of the Association of Physical Activities and Sport Researchers, Dijon, France** 10.31.2017
 Invited Speaker: *"Sex Differences in Performance Fatigability"*
19. **Organization for the Study of Sex Differences Annual Meeting, Montreal, Canada** 05.2017
 Symposium: *'Sex-Specific Mechanisms of Upper Limb Musculoskeletal Disorders'*
"Sex-Specific Mechanisms of Fatigability"
20. **European Congress of Sports Science Invited Speaker. Vienna, Austria** 07.2016
 [Invited Speaker at the Annual conference of the European College of Sport Science]
"Fatigability Differs with Aging and Task Demands"
21. **Physiology 2015 Cardiff, Wales** 07.2015
 [Invited Speaker at the Annual conference of the Society of Physiology, London]
"Sex Differences in Skeletal Muscle Fatigue"
22. **World Congress on Exercise Fatigue (with the American College of Sports Medicine), San Diego, CA** 05.27.2015
 Key Note: *"Sex Differences in Muscle Fatigability"*
23. **European Congress of Sports Science Key Note Speaker. Amsterdam, Netherlands** 07.2014
 [Invited Keynote Speaker at the Annual conference of the European College of Sport Science]
 Plenary session: *"Sex Differences in Neuromuscular Fatigue and Performance: Why Does it Matter?"*
24. **Canadian Society of Exercise Physiology National Meeting Symposium. Quebec City, Canada** 10.2011
"Expanding the Tool Box to Understand Neuromuscular Fatigue: An Integrative Approach"
25. **Prince of Wales Medical Research Institute, Sydney, Australia** 07.2004
 Sensorimotor Series. *"Muscle Fatigue is Dependent on the Task"*
26. **Prince of Wales Medical Research Institute, Sydney, Australia** 08.2004
 Sensorimotor Series. *"Sex Differences in Muscle Fatigue"*

B. NATIONAL PRESENTATIONS (INVITED - IN THE USA)

1. **Shirley Ryan Institute and Northwestern University, Chicago, Ill** 12.08.2025
 Seminar Presentation: *Age and Sex Differences in Motor Performance*
2. **Wu Tsai Sports Science Institute: The Female Athlete Research Meeting (FARM) Stanford University, CA.** 11.10.2025
 Title: *Females Exhibit Accelerated Declines in Fast Muscle Fiber Size with Aging*
3. **American Physiological Society on New Trends in Sex Differences and Women's Health Research Conference Tulane University Medical Campus, New Orleans LA** 10.24.2025
 Keynote Presentation: *Biological Basis of Sex Differences in Motor and Athletic Performance*
4. **American College of Sports Medicine Annual Meeting** 05.28.2025
 Atlanta, GA
 Seminar Presentation: *Sex Matters: Females are Not Small Males*
5. **American College of Sports Medicine Annual Meeting** 05.27.2025
 Atlanta, GA
 Seminar Presentation: *Sex Differences in Athletic Performance Among Adults*
6. **University of Missouri, Division of Food, Nutrition & Exercise Sciences, College of Agriculture, Food and** 04.03.2025

Natural Resources: NERD Keynote SpeakerInvited Seminar: *Age & Sex Differences in Motor & Athletic Performance across the Lifespan*

7. **University of Illinois, Urbana-Champaign, College of Applied Science, Dept of Health and Kinesiology** 10.24.2024
Invited Seminar: *Sex Differences in Athletic Performance*
8. **Mid-West ACSM Annual Meeting** 10.17.2024
Grand Rapids, MI
Keynote Presentation: *Sex Differences in Athletic Performance*
9. **United States Army Research Institute of Environmental Medicine (USARIEM)** 10.26.2023
Natick, Boston, MA
Sex Differences in Athletic Performance
10. **American College of Sports Medicine Annual Meeting and World Congress on Physical Activity and Aging** 05.31.2023
Denver, CO
Keynote Presentation: *Performance Fatigability with Aging*
11. **Edward F. Adolph Distinguished Lectureship of the APS Environmental and Exercise Physiology Section** 04.22.2023
Long Beach, CA, American Physiological Society Summit
Performance Fatigability: An Integrative Approach
12. **Integrative Exercise of Physiology Biannual Meeting**, Baltimore, MD 09.23.2022
Co-Sponsored: American Physiological Society and the American College of Sports Medicine
Invited Key Note: *Sex Differences in Athletic Performance*
13. **National Institute of Aging Workshop: Causes & Consequences of Age-Related Changes in Gait Biomechanics and the Metabolic Cost of Walking**, Virtual. 09.20.2021
Invited: *Age-Related Changes in Muscle Fatigability: Task Matters*
14. **American College of Sports Medicine Annual Meeting**, Virtual 06.03.2021
Invited Seminar: *The Aging Neuromuscular System: Fatigability of Limb Muscles*, Virtual.
15. **American College of Sports Medicine National Annual Meeting**, Virtual 06.03.2021
Highlighted Symposium: *Biomechanics and Neural Control of Movement*
Title: *The Aging Neuromuscular System: Protective Effects of Physical Activity*
16. **American College of Sports Medicine Annual Meeting**, Virtual 06.02.2021
Invited Seminar: *Sex Differences in Performance: Historical Perspectives*
17. **Pennsylvania State University, PSU Noll Seminar, Dept of Kinesiology**, Virtual 02.19.2021
Seminar: *"Sex Differences in Human Performance: Power of Big Data"*
18. **The Innovation Connection: How Federal Research Benefits Wisconsin**, Capitol Hill, Washington DC 09.17.2019
Hosted by Metropolitan Milwaukee Association of Commerce (MMAC)
<https://mmacwiassoc.wiinc28.com/events/The-Innovation-Connection-How-Federal-Research-Benefits-Wisconsin-2380/details>
19. **American College of Sports Medicine Annual Meeting**, Orlando, FL 05.31.2019
Symposium Presentation: *"Motor Unit Activity in Leg Muscles of People with Type 2 Diabetes"*
20. **University of Utah**, Salt Lake City, UT 03.29.2019
Seminar: *"Sex Differences in Fatigability: Why It Matters!"*
21. **Shirley Ryan Abilities Lab**, Chicago, IL 01.23.2019
Ground Round Seminar *"Exercise-Related Fatigue with Aging!"*
22. **Colorado State University**, Fort Collins, CO 10.19.2018
Colloquium: *"Exercise-Related Fatigue with Aging"*
23. **American College of Sports Medicine Annual Meeting**, Boston, MA 06.04.2016
Symposium: *'Do Physiological Sex-differences Affect Exercise Performance?'*
"Sex-differences in Physiological Function: Do they Explain Differences in Exercise Performance?"
24. **Organization for the Study of Sex Differences Annual Meeting**, Philadelphia, PA 05.25.2016
Symposium: *"Sex Differences in Neuromuscular Function and Fatigue?"*

25. **Ball State University**, Human Performance Laboratory, Muncie, IN 08.27.2015
Seminar Series: “*Sex Differences in Muscle Fatigue: Does it Really Matter?*”
26. **Musculoskeletal Sex Differences Throughout the Lifespan Research Symposium**, Chicago, IL 08.01.2014
Sponsored by the American Association of Orthopaedic Surgeons and ORR/ORS/CMH-UCD/SWHR
“*Sex Differences in Muscle Fatigability in Young and Older Adults*”
27. **American College of Sports Medicine Annual Meeting**, Orlando, FL 05.30.2014
Symposium: ‘The 2-hour Marathon’
“*Sex Differences in the Marathon: 2 Hours: What is the Comparable Barrier for Women?*”
28. **University of Oregon** Department of Human Physiology Seminar Series, Eugene, OR 04.09.2014
“*Fatigability of Human Muscles: Sex Matters*”
29. **Mid West American College of Sports Medicine Annual Meeting**, Merryville, IN 11.9.2013
Symposium: “*Skeletal Muscle Fatigue: Neural contributions and the Impact of Aging*”
30. **American College of Sports Medicine Annual Meeting**, Indianapolis, IN 05.31.2013
Symposium: “*Neural Contributions to Muscle Fatigue: Task Matters*”
31. **American College of Sports Medicine Annual Meeting**, Baltimore, MD 06.04.2010
Symposium: The Exercising Female: An Integrated Approach.
“*Sex Differences in Muscle Fatigue: Mechanisms of Task Specific Muscle Fatigue*”
32. **University of Florida**, Department of Health and Human Performance Colloquium, Gainesville, FL 03.15.2010
“*Task Dependence of Muscle Fatigue and Aging*”
33. **University of Chicago, Illinois**, Chicago School of Public Health 04.09.2008
“*Cognitive Stress, Mental Attentiveness and Muscle Fatigue*”
34. **American Physical Therapy Association Section on Research Retreat**, Pacific Grove, CA 08.09-13. 2009
Mechanisms Underlying Disordered Movement: Impairments with Force Generation
“*Skeletal Muscle Fatigue: Task Specificity and Aging*”
35. **Society of the Neural Control of Movement Society**, Waikoloa Beach, HI 05.02.2009
“*Central Fatigue: Task Dependence of Muscle Fatigue*”
36. **American College of Sports Medicine Annual Meeting**, Indianapolis, IN 05.30.2008
“*Neuromuscular Fatigue and Aging Symposium: Consensus and Controversy: Subject Characteristics*”
37. **Texas A&M University**, College Station, TX 04.22.2007
Motor Control Symposium, Department of Health and Kinesiology.
“*Neuromuscular Control of Fatiguing Tasks in Young and Old Adults*”
38. **American College of Sports Medicine Annual Meeting**, Denver, CO 05.31.006
Neural Mechanisms Contributing to Muscle Fatigue Symposium: “*Muscle Fatigue and Aging*”
39. **American College of Sports Medicine Annual Meeting**, Indianapolis, IN 06.2004
Current Issues in Muscle Fatigue Symposium: “*Sex Differences in Muscle Fatigue*”

C. LOCAL AND REGIONAL PRESENTATIONS

1. **University of Michigan, School of Kinesiology: Clinical Exercise Group** 09.12.2025
Sex Differences in Athletic and Motor Performance Across the Lifespan
2. **University of Michigan, School of Kinesiology: Junior Faculty** 04.02.2025
How to Increase the Impact of Your Research
3. **University of Michigan, School of Kinesiology Alumni Association** 03.18.2025
Exercise & Athletic Performance in Males & Females: Aging and Diabetes Differences in Athletic Performance
4. **University of Michigan: Dept of Metabolism, Endocrinology and Diabetes** 12.06.2024
Sex Differences in Athletic Performance
5. **University of Michigan, School of Kinesiology: Clinical Exercise Group** 10.10.2024
Aging and Motor Performance: The Protective Effects of Exercise

6. **Medical College of Wisconsin, 31st MCW Sports Medicine Symposium**
The Biological Basis of the Sex Differences in Athletic Performance 03.21.2024
7. **Carroll University, Dept. of Physical Therapy, Waukesha, WI**
Aging and Exercise Performance 04.07.2024
8. **Medical College of Wisconsin, Dept of Medicine, Cardiology, Grand Rounds**
Performance Fatigability with Aging 12.07.2023
9. **Medical College of Wisconsin, CTSI Clinical Scholars Symposium**
'Taking an Idea to an Aims Page' 05.23.2023
10. **Medical College of Wisconsin, Dept of Endocrinology, Grand Rounds**
Sex Differences in Athletic Performance 08.03.2023
11. **Carroll University, Dept. of Physical Therapy, Waukesha, WI**
Aging and Exercise Performance 04.04.2023
12. **Medical College of Wisconsin, CTSI Clinical Scholars Symposium**
'Building a Research Career' 11.21.2023
13. **Medical College of Wisconsin, Dept of Physiology, Grand Rounds**
Sex Differences in Fatigability and Athletic Performance 01.11.2023
14. **Marquette University: Institute for Women's Leadership Seminar**
Physical Activity and Pain: Sex-Related Barriers? 11.03.2022
15. **University of Wisconsin, Madison, Running Symposium**
Sex Differences in Running: Running Performance in Men & Women: What's the Difference? 07.30.2022
16. **Marquette University, Office of Sponsored Research Programs (for the College of Business)**
Impactful & Successful Research: The Importance of Why! 05.11.2022
17. **Carroll University, Dept. of Physical Therapy, Waukesha**
Sex Differences in Human Performance 04.18.2022
18. **Carroll University, Dept. of Physical Therapy, Waukesha**
Aging and Exercise Performance 03.24.2022
19. **Marquette University, Institute for Women's Leadership Gala**
Sex Differences in the Persistent Effects of COVID 19 on Physical Function 03.07.2022
20. **Marquette University Law School**
Gender Equity in Sports: Sex Differences in Human Performance 03.01.2021
21. **Marquette University, Public Health Equities Fellowship Seminar**
Long COVID: Persistent Effects of COVID-19 Sex Differences and Underrepresented Populations 02.21.2022
22. **Marquette University, Research in Action Leadership Development Program**
Vision and Mission in Research Centers: AHPRC and the COVID-19 Research Initiative 01.19.2022
23. **Medical College of Wisconsin, CTSI Clinical Scholars Symposium**
'Building a Research Career' 11.23.2021
24. **Marquette University, Institute for Women's Leadership**
Sex Differences in the Persistent Effects of COVID-19 10.19.2021
25. **Marquette University, Marquette Challenge, Department of Physical Therapy**
Aging and Exercise Performance 10.02.2021
26. **Marquette University, Public Health Equities Fellowship Seminar**
Sex Differences in Human Performance: Issue of Equity 04.28.2021
27. **Marquette University, COVID-19 Research Initiative Lightning Talks**
Student Research Initiatives During the Pandemic 04.21.2021

28. **Marquette University, Institute for Women' Leadership Research Social** 04.08.2021
Impactful Research: The Currency of Success
29. **Marquette University Law School** 03.03.2021
Gender Equity in Sports: Sex Differences in Human Performance
30. **Trifaster Triathlon Club, SE Wisconsin** 01.19.2021
The Aging Athlete
31. **Marquette University, Athletic and Human Performance Research Center and Dept Seminar** 11.12.2020
Sex Differences in Human Performance: Power of Big Data
32. **University of Wisconsin, Milwaukee.** Dept of Kinesiology and Human Movement Sciences 03.04.2020
Sex Differences in the Marathon
33. **Medical College of Wisconsin, CTSI Clinical Scholars Symposium** 11.12.2019
'Building a Research Career'
34. **Medical College of Wisconsin, 31st MCW Sports Medicine Symposium** 03.14.2019
'Physiology of the Aging Adult and Athlete'
35. **Veterans Affairs Medical Center Milwaukee,** Dept of Geriatrics, Milwaukee, WI 03.31.2017
Fatigability and Aging: Mechanisms and the Protective Effects of Exercise
36. **University of Wisconsin, Whitewater** 10.30.2016
Sex Differences in Exercise Performance: Is it all about physiological differences?
37. **Medical College of Wisconsin,** Dept of Gynaecology and Obstetrics, Milwaukee, WI 01.20.2016
Neuromuscular Function in Women Postpartum
38. **Marquette University Board of Trustees, Marquette University,** Milwaukee, WI 02.24.2016
Research in the Athletic Performance Research Center
39. **Marquette University Advancement, Marquette University,** Milwaukee, WI 02.04.2016
Research in the Athletic Performance Research Center
40. **Wisconsin's Women's Health Foundation,** Annual Research Breakfast, Janesville, WI 1.30.2015
The Impact of Research in Women's Health
41. **Marquette Alumni Annual Meeting, Marquette University,** Milwaukee, WI 01.24.2015
Human Performance and Fatigability
42. **CTRH Research Seminar Series, Marquette University,** Milwaukee, WI 12.04.2014
Sex Differences in the Marathon: The comparable 2-hour Marathon for Women
43. **St Johns Retirement Community on the Lake,** Milwaukee, WI 11.01.2013
Aging and Neuromuscular Function: Can we do anything about it?
44. **Marquette University Manresa Faculty Development Seminar & Round Table** 11.2012
Secrets of a Faculty Life Work Balance
45. **CTRH Research Seminar Series, Marquette University,** Milwaukee, WI 11.01.2012
Neuromuscular Fatigue: Does it Matter?
46. **Marquette University,** Milwaukee, WI 06.21.2012
College of Health Sciences Undergraduate Summer Research Program Series: Age Differences and Neuromuscular Fatigue.
47. **University of Wisconsin - Milwaukee,** WI 04.09.2012
Seminar in the Dept of Kinesiology and Human Movement Sciences: Sex Differences in Neuromuscular Fatigue
48. **CTRH Research Seminar Series, Marquette University,** Milwaukee, WI 12.01.2011
Neuromuscular Fatigue: An Integrative Approach
49. **Marquette College of Health Sciences Alumni & Advancement Event,** Washington DC 11.2011
The Aging Brain: Can We Turn Back the Clock?
50. **Marquette University,** Milwaukee, WI 09.16.2010

Meeting of the Minds Research Seminar. “*Strength and Speed Decline with Age: Can this be Reversed with Strength Training*”

51. **Marquette University**, Milwaukee, WI 06.23.2010
College of Health Sciences Undergraduate Summer Research Program Series: *Aging, Sex Differences and Muscle Fatigue*
52. **Marquette University**, Milwaukee, WI 06.2009
College of Health Sciences Undergraduate Summer Research Program Series. *Aging and Muscle Fatigue*
53. **Marquette University**, Milwaukee, WI 07.08.2008
College of Health Sciences Undergraduate Summer Research Program Series. *Muscle Fatigue in Old Adults*
54. **Marquette University**, Milwaukee, WI 08.2007
Physical Therapy Department Meeting of the Minds Research Seminar: *Neuromuscular Control of Fatiguing Tasks*
55. **Medical College of Wisconsin**, Milwaukee, WI 07.20.2007
Physical Medicine & Rehabilitation Research Ground Rounds: *Aging and Neuromuscular Control of Fatiguing Tasks*
56. **Marquette University**, Milwaukee, WI 06.12.2006
College of Health Sciences Undergraduate Summer Research Program Series: *Mechanisms for Age Differences in Muscle Fatigue*
57. **University of Wisconsin – Milwaukee**, WI 05.09. 2006
Seminar in Human Movement Sciences: *Muscle fatigue in Older Adults*
58. **Marquette University**, Milwaukee, WI 06.22.2005
College of Health Sciences Undergraduate Summer Research Program Series: *Mechanisms for Sex and Age Differences in Muscle Fatigue*
59. **Marquette University**, Milwaukee, WI 04.2003
Department of Physical Therapy. *Muscle Fatigue is Task Dependent*

D. PRESENTATIONS | AT DOCTORAL AND POST DOCTORAL LEVEL

1. **University of Colorado**, Department of Kinesiology and Applied Physiology Colloquium, Boulder, CO 10.2002
“*Muscle Fatigue is Dependent on the Details of the Task: Who and How?*”
2. **Marquette University**, Milwaukee, WI 09.2002
Department of Physical Therapy. “*Mechanisms of Task Failure*”
3. **American College of Sports Medicine Annual Meeting**, St Louis, MO 06.2002
Sex Differences in Human Performance Symposium: “*Sex Differences in the Fatigability of Isometric Contractions in the Adult Neuromuscular System*”
4. **University of Colorado**, Department of Kinesiology and Applied Physiology Colloquium, Boulder, CO 04.2001
“*The Fatigability of Muscle in Men and Women: The Imagined Sex-Difference?*”
5. **University of Colorado**, Department of Kinesiology and Applied Physiology Colloquium, Boulder, CO 11.1999
“*Plasticity of Old Muscles: Functional and Morphological Adaptations to Strength Training*”
6. **University of Sydney**, Australia. Sports Medicine Australia’s Careers Day 06.1998
“*The Research Project Manager*”
7. **St George Hospital**, Sydney, Australia. 11.1998
Colloquium Series: “*Adaptations of Muscle Function and Morphology with Age and Resistance Training*”
8. **Australian Conference of Science and Medicine in Sport**, Adelaide, Australia 10.1998
“*Physical Activity, Limb Dominance and Muscle Group as Determinants of Strength with Age*”
9. **Australian Conference of Science and Medicine in Sport**, Canberra, Australia 10.1997
“*Muscle Size and Morphology of Young and Elderly Women: The Effect of 12 Weeks High Resistance Training*”
10. **University of Sydney**, Australia 10.1997
Nerve and Muscle in Health, Disease and Exercise:10th Biennial Conference of the Department of Biomedical Sciences. “*The Effect of Age on Skeletal Muscle of Women*”

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| 11. Australian Conference of Science and Medicine in Sport , Canberra, Australia
<i>“Effect of High Resistance Strength Training on Functional Capacity of Elderly Women”</i> | 10.1996 |
| 12. Sports Medicine Australia’s Women’s in Sport Meeting , Newcastle, Australia
<i>“The Exercise and Sports Scientist”</i> | 06.1996 |
| 13. Australian Conference of Science and Medicine in Sport . Hobart, Australia
<i>Muscle Function and Size with Age”</i> | 10.1995 |
| 14. National Annual Scientific Conference of the Australian Sports Medicine Federation , Brisbane, Australia
<i>“Isometric Muscle Function and Reaction Times as a Function of Age”</i> | 10.1994 |
| 15. Sydney’s Royal Women’s Hospital , Sydney, Australia
Colloquium Series. <i>“Oestrogen Deficiency and Ageing Skeletal Muscle Function in Post-menopausal Women”</i> | 11.1994 |
| 16. National Annual Scientific Conference of the Australian Sports Medicine Federation , Melbourne, Australia
<i>“Muscle Function Tests”</i> | 10.1993 |

VII. TEACHING

A. COURSE DIRECTOR | GRADUATE

- Applied and Rehabilitative Systems Physiology (CTRH/EXRS 6001, 3 credits)**
Fall 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2022, 2023 (Guest lecture)
- Fatigue in Health and Disease (CTRH 6450, 3 credits)**
Spring 2014
- Techniques in the Neural Control of Movement (CTRH 6931, 3 credits)**
Spring 2015 and 2017

B. COURSE DIRECTOR | UNDERGRADUATE

- Advanced Exercise Physiology Laboratories (EXPH 4195/5195, 1 credit)**
Fall 2012, 2013, 2014, 2015, 2016, 2017
- Advanced Exercise Physiology (EXPH 4192 and 5192, 4 credits)**
Fall 2003-2011
- Honors: Mission to Mars (HOPR 3957H, 1 credit)**
Spring 2017

B. OTHER MAJOR TEACHING RESPONSIBILITIES

University of Michigan (2024 – present)

Independent Study:

- Winter 2025 (MVS 590-175): 2 master’s students**
Techniques and Measurements of Neuromuscular Physiology in Human Movement
- Fall 2025 undergrad and graduate independent study (MVS 429 and 529)**
Techniques and Measurements of Neuromuscular Physiology in Human Movement

Marquette University (2003 - 2024)

- Readings and Research in CTRH/EXRS Graduate Program (EXRS 6958)**
Fall 2011-2022: 1-5 students (4-week interval)
- Independent Study**

Independent Study (EXRS 8995)		
Spring 2023, 2 students (Opielinski L; Linde J)		3 cr
Fall 2023, 2 students (Opielinski L; Linde J)		3 cr

Independent Study (EXRS 6995)		
Spring 2023, 1 student (Atkinson, M)		3 cr
Independent Study (BISC)		
Spring 2021, 1 student (Nesburg, R)		3 cr
Independent Studies (EXPH 4995)		
Fall 2019, 1 student (Beilfuss, R)		2 cr
Independent Study (EXSC 195)		
Spring 2010, 1 student (Doyle, R)		4 cr
Fall 2009, 1 student (Magennis, K)		1 cr
Spring 2009, 1 student (Cowdy, J)		4 cr
Fall 2005, 1 student (Griffith E)		2 cr
Spring 2005, 2 students (Griffith E, Schlachter K)		2 cr
Fall 2004, 1 student (Griffith E)		2 cr
Independent Study (PHTH 495)		
Spring 2005, 1 student (Keller M)		1 cr
Spring 2005, 1 student (Barnes C)		1 cr
Independent Study (PHTH 595)		
Fall 2009, 1 student (Vanden Noven)		2 cr
Fall 2006, 1 student (Keller M)		3 cr
Fall 2005, 1 student (Keller M)		3 cr
Summer 2005, 1 student (Keller M)		2 cr
Independent Study (PHTH 295)		
Spring 2008, 2 students (Vanden Noven M and Keller M)		3 cr
Summer 2007, 1 student (Keller M)		1 cr
Independent Study (INPR 4995)		
Spring 2012, 1 student (Senefeld J)		3 cr
Spring 2011, 1 student (Senefeld J)		3 cr
Independent Study (INPR 8995)		
Spring 2014, Rita Deering		3 cr
Spring 2012, Bunyan, S		3 cr
Fall 2011, Pereira H		2 cr
Summer 2011 Pereira H		3 cr
Independent Study (CTRH 6995 / EXRS 6995)		
Fall 2021 David Wrucke		3 cr
Summer 2016 Andrew Kuplic		3 cr
Spring 2014 Christopher Sundberg		3 cr
Spring 2012 Reivian Berrios Barrilas		3 cr
Fall 2012 Stacy Stolzman		2 cr

3. Exercise Science Practicum I (EXPH 3986, 2 credits) research practicum

Fall 2023: 1 student	Heath, E.
Fall 2022: 1 student	Quinn, M
Fall 2021: 1 student	Vosters, E
Fall 2020: 1 student	Zirgaitis, G. (honors)
Fall 2019: 1 student	Hendrickson, M
Fall 2018: 1 student	Hart, M (honors)
Fall 2017: 1 student	D'Astice, S (honors)
Fall 2016: 1 student	Adams, M
Fall 2014: 1 student	Pashibin, T
Fall 2013: 1 student	Tyler Esser
Fall 2011: 2 students	Senefeld J. and Spears V.
Fall 2009: 1 student	Stevens, A.
Fall 2008: 1 student	Magennis, K.

Fall 2007: 1 student	Pruse, J.
Fall 2006: 1 student	Daignault, R
Fall 2005: 2 students	McGuire, J. and Stanton, V.
Fall 2004: 2 students	Schlachter, K. and Trott, T.

3. Exercise Science Practicum II (EXPH 4986, 16 credits) research practicum

Spring 2022: 1 student	Anderson, E
Spring 2016: 1 student	Lemens, J
Spring 2015: 1 student	Pashibin, T and Kuplic A
Spring 2014: 1 student	Bouressa, R.
Spring 2009: 1 student	Coon, M.
Spring 2006: 1 student	Hennessy, J.
Spring 2005: 1 student	Kufahl, T.
Spring 2004: 2 students	Sanders, J. and Ritland, B.

4. College of Health Sciences - Summer Undergraduate Research Program

Summer 2021: 2 students	Nesburg, R and Zirgaitis, G
Summer 2019: 1 student	Hart, M
Summer 2018: 2 students	Yang K and D'Astice S.
Summer 2017: 2 students	Ryan K and Hickok S.
Summer 2016: 2 students	Adams M and Eble C
Summer 2015: 2 students	Pashibin T and Linzmeier C
Summer 2014: 2 students	Pashibin T and Kuplic A
Summer 2013: 2 students	Buzzard A and Boehlke K.
Summer 2012: 2 students	Senefeld J and Elliot N.
Summer 2011: 2 students	Senefeld J and Hoffman M.
Summer 2010: 2 students	Stevens A* (2 nd place) and Kuhn P.
Summer 2009: 2 students	Doyel R and Fiandt C* (2 nd place).
Summer 2008: 3 students	Fauth M* (1 st place), Pruse J, and Skelton KW.
Summer 2007: 1 student	Bly, SC
Summer 2006: 1 student	Wendell. S.
Summer 2005: 1 student	Griffith, E.

**Awardees of the College of Health Sciences summer undergraduate research presentation day*

5. Department of Biomedical Engineering - Summer Undergraduate Research Program

Summer 2006 (co-mentor)	Farinella, J.
Summer 2007: 1 student	Hawe, R.

6. Co-ordinator of Meeting of the Minds Departmental Research Seminar (Spring 2007 to Spring 2010)

7. Co-ordinator of Summer Graduate Research Journal Club (Summer 2010)

D. GUEST LECTURER | UNDERGRADUATE

- 1. Introduction to Exercise Science (EXSC 090 and EXPH 101, 2 cr):** 1 lecture x 50 mins, Fall 2004, 2005, 2006, 2007, 2008, 2009, 2011-2017.

E. GUEST LECTURER | GRADUATE

- 1. Physiology of Activity (PHTH 7518, 3 cr):** 1 lecture x 80 min, Fall 2008, 2009, 2011-2023.
- 2. Tests and Measures (CTRH 6020):** 2 lectures x 2 hours each in Fall 2011, Fall 2012, Fall 2013.
- 3. Introduction to Research (PHTH 558, 1 cr):** 2 lectures, Spring 2006.
- 4. Applied Kinesiology (PHTH 570, 4 cr):** 2 lectures and 2 laboratories each year, Spring, 2003, 2004 and 2005.
- 5. Physiology of Aging (GERT 202, 4 cr):** 1 x 3 hour lecture in Spring 2005, Fall 2006, Spring 2008.

VIII. MENTOR

CURRENT FACULTY MENTEES

1. Jacob Capin, DPT, PhD 2022 - present
Assistant Professor, Dept of Physical Therapy,
College of Health Sciences, Marquette University

PAST FACULTY MENTEES

2. Jenya Iuzzini-Seigel, PhD. 2020 – 2024
Associate Professor, Dept of Speech Pathology and Audiology
College of Health Sciences, Marquette University.
3. Ranjana Mehta, PhD. (Texas A&M ADVANCE Scholars Program) 2015 – 2020
Associate Professor in Environmental and Occupational Health, School of Public Health and Industrial and Systems Engineering,
College of Engineering, Texas A&M University.
4. Ashleigh Smith, PhD. 2016 – 2022
Senior Lecturer, University of South Australia, Adelaide, Australia
Dr Smith visited in April 2016 (4 weeks) and November 2016 (2 weeks) with ongoing collaboration.
I visited University South Australia for 3 weeks in April 2018.

CURRENT POST-DOCTORAL LEVEL | UNIVERSITY OF MICHIGAN (PRIMARY ADVISOR)

1. Rachel Cook Logue, PhD 09.2024 - present
Fatigability and Protective Effects of Exercise in People with Diabetes
Sex Differences in Physical Function Across the Lifespan: the Effects of Sex Hormones
2. Lauren Opielinski-Ortega, PhD 07.2025 - present
Aging and Fatigability: Neural Adaptations to Concurrent Training
3. Sophie Jenz, PhD 02.2026- present
Estradiol's Impact on Neuromuscular Decline and Strength Training Adaptations in Postmenopausal Females

IX. DISSERTATION AND THESIS COMMITTEES

A. CURRENT MENTOR | ADVISOR | COMMITTEE MEMBER

DOCTORAL LEVEL | PRIMARY ADVISOR

Frank Doyle (Movement Science, School of Kinesiology) 2025 - present

DOCTORAL LEVEL | COMMITTEE MEMBER

Savannah Gutsch (EXRS program, Marquette University) 2022 - present
"Pain Perception and Aging"

MASTER'S | UNIVERSITY OF MICHIGAN (PRIMARY)

UNDERGRADUATE HONORS | UNIVERSITY OF MICHIGAN (PRIMARY)

Revati Ignaczak, Movement Science, School of Kinesiology 2025 - present

B. PREVIOUS MENTEES | ADVISEES

POST-DOCTORAL LEVEL | MARQUETTE UNIVERSITY (PRIMARY ADVISOR)

1. Michael Haischer 01.2024 – 12.2024
Current Position: AHPRC Research Lab Manager
Marquette University, Milwaukee, WI
2. Andrew Pearson, PhD 06.2023 – 04.2024
Current Position: Clinical Assistant Professor, School of Kinesiology, University of Michigan, Ann Arbor, MI (08.2025-present)

Previous Position: Principal Health and Human Performance Engineer (space systems)
Collins Aerospace, Houston, TX.

3. **Timothy Fulton, PhD** 06.2019 – 08.2023
Current Position: Data Analyst
Georgia State University
4. **Minhyuk Kwon, PhD** 06.2016 – 08.2019
Current Position: Assistant Professor (08.2019 – present)
California State Polytechnic University-Pomona
5. **Jonathon Senefeld, PhD** 05.2018 – 05.2019
Current Position: Assistant Professor, Department of Health and Kinesiology, University of Illinois at Urbana-Champaign, IL
Previous Position: Postdoctoral Research Associate and Research Assistant Professor (2019 –2023)
Mayo Clinic, Rochester, MN
6. **Vianney Rozand, PhD** 10.2015 – 10.2016
Current Position: Assistant Professor (09.2017 – present)
Jean Monnet University, (University of Lyon), France
7. **Hamidollah Hassanlouei, PhD** 10.2014 – 10.2016
Current Position: Lecturer (2016-present)
Tehran University, Tehran, Iran
8. **Tejin Yoon, PhD** 2006 - 2013
Current Position: Associate Professor, Kangwon National University (2018-present)
Previous Position: Assistant Professor, Department of Kinesiology and Integrative Physiology,
Michigan Technological University (2013 – 2018)

DOCTORAL LEVEL | MARQUETTE UNIVERSITY (PRIMARY ADVISOR)

1. **Lauren Opielinski** (EXRS program, Marquette University) PhD, 05.2025
The Effect of COVID-19 on Physical Activity, Physical Function and Psychological Health
Current position: Postdoctoral Research Associate, University of Michigan, Ann Arbor, MI (08.2025 - present)
2. **Blaine Arney** (EXRS program) PhD, 07.2024
“Mechanisms of Fatigability in Individuals with Prediabetes and the Effect of Dietary Nitrate Supplementation”
Current position: Assistant Professor, Pennsylvania State University, Altoona, PA (08.2024 - present)
3. **Lauren Sara** (CTRH program) PhD, 07.2021
“Muscle Function and Fatigability in People with Achilles Tendinopathy”
Current position: Postdoctoral Research Fellow, Boston University, Boston, MA (01.2023 - present)
Previous position: Postdoctoral Research Fellow, Harvard University, Harvard Medical School, Boston, MA (07-2021 – 12.2022)
4. **Jonathon Senefeld** (CTRH program, Marquette University) PhD, 07.2018
“Mechanisms of Fatigability in People with Type 2 Diabetes and Prediabetes”
Current Position: Assistant Professor, Department of Health and Kinesiology, University of Illinois at Urbana-Champaign, IL
Previous Positions: Research Assistant Professor, Mayo Clinic, Rochester, MN (2021-2023)
Post-doctoral Research Associate, Mayo Clinic, Rochester, MN (2019-2021)
5. **Christopher Sundberg** (CTRH program, Marquette University) PhD, 05.2018
“Mechanisms of Fatigue with Aging: Evidence from the whole limb to the single cell in humans”
Current Position: Assistant Professor, Exercise Science, Dept Physical Therapy, Marquette University (08-2020 - present)
Previous Position: Post-doctoral Research Associate, Dept of Biological Sciences, Marquette University, Milwaukee (2018-2020)
6. **Rita Deering** (CTRH program, Marquette University) PhD, 12.2017
“Neuromuscular Function in Women after Pregnancy”
Current Position: Assistant Professor of Physical Therapy, Carroll University, WI (08-2019 - present)
Previous Position: Postdoctoral Fellowship: Advanced Women’s Health Postdoctoral Fellowship at the University of Wisconsin-Madison and VA (July 1, 2018 – 2019)
7. **Hugo M Pereira** (Interdisciplinary, Marquette University; Fulbright Scholar from Brazil) PhD, 05.2015
“Neuromuscular Function and Fatigue with Cognitive Demand in Young and Old Adults”
Current Position: Assistant Professor, Dept. of Kinesiology, University of Oklahoma (08.2018 – present)

Previous Position: (2016-2018) Postdoctoral Research Associate, Laboratory of Biomedical Engineering, Dept. of Telecommunication and Control –School of Engineering, University of São Paulo; São Paulo, Brazil

8. **Marnie Vanden Noven** (Interdisciplinary, Marquette University) PhD, 05.2014
“Aging and Neuromuscular Mechanisms of Muscle Fatigue”.
Current Position: Professor, Belmont University, TN
9. **Manda Keller-Ross** (Interdisciplinary, Marquette University) PhD, 12.2011
“Muscle Fatigue and Motor Output Variability with Acute Stress in Healthy Young Adults and Veterans with Posttraumatic Stress Disorder”
Current Position: (March 2015) Assistant Professor, Department of Physical Therapy, University of Minnesota, MN
Previous Position: (2011-2014). Postdoctoral Research Fellow, Mayo Clinic, Rochester, MN

DOCTORAL LEVEL | MARQUETTE UNIVERSITY (COMMITTEE MEMBER)

1. Jessica James (EXRS program, Marquette University) 2022 – 2024
“Sex and Age Differences in Exercise Performance”
2. Carlos Zepeda (EXRS program, Marquette University) 2021 - 2024
“Cellular and molecular factors contributing to the age-related loss in muscle mass and function”
3. Zhilun (Andy) Zhou (EXRS program, Marquette University) PhD, 05.2025
“Sex Differences in Fatigability in Stroke Survivors”
4. Mitra Rouhani (EXRS program) PhD, 05.2024
“Muscle Fatigue in People with Multiple Sclerosis”
5. Michael Haischer (EXRS program) PhD, 12.2023
“Influence of maximal strength on joint-specific function and coordination across stretch-shortening cycle task demands”
6. Nayun Ahn (EXRS program) PhD, 12.2023
“Coordination strategies and neuromusculoskeletal capacities during the sit-to-stand task in young and older adults”
7. Saad Alqahtani (EXRS program) PhD, 12.2021
“Motor Performance and Motor Unit Behavior in Response to Ischemic Conditioning Post Stroke”
2. Abdulaziz Awali (CTRH program) PhD, 12.2020
“Influence of Experimental Pain Sensitivity and Cardiovascular Autonomic Function on Exercise-Induced Hypoalgesia”
3. Giovanni Berardi (CTRH program) PhD, 12.2020
“Pain in People with Fibromyalgia Exercise Induced Analgesia”
4. Ali Alsouhibani (CTRH program) PhD, 12.2019
“Exercise induced analgesia”
5. Sheri Bunyan (CTRH program) PhD, 09.2019
“Neuromuscular Fatigue in people with Multiple Sclerosis”
6. Spencer Murphy (Biomedical Engineering) PhD, 10.2018
“Mechanisms of Impaired Motor Unit Firing Behavior of the Vastus Lateralis after Stroke”
7. Reivian Berrios Barillas (CTRH) PhD, 12.2015
“Reflex Gain Effects on Force Regulation and its Clinical Implications”
8. Kathryn Lemley (Interdisciplinary) PhD, 05.2014
“Mechanisms of Isometric Exercise-Induced Hypoalgesia in Young and Old Men and Women”
9. Dominic Nathan (Biomedical Engineering) PhD, 12.2010
“Development of a Cortical Reach-to-Grasp Model for Feed Forward Neuroprosthesis”
10. Megan Conrad (Biomedical Engineering) PhD, 05.2009
“Effects of distal sensory manipulations on arm movements in post-stroke hemiparesis”
11. Carlyn Alt, PT (Interdisciplinary) PhD, 05.2006
“Mechanisms of muscle fatigue in cancer survivors”.

DOCTORAL LEVEL (AS EXTERNAL EXAMINER)

- | | |
|---|--------------|
| 1. Peter Poortvliet (University of Queensland, Australia)
<i>"Insights into the mechanisms that underlie neuromuscular adaptation to pain using postural and volitional focused motor tasks"</i> | PhD, 11.2013 |
| 2. Sabine Giesebrecht (University of NSW, Australia)
<i>"Activity Dependent Changes in Control of Human Motoneurons"</i> . | PhD, 11.2010 |
| 3. Tejin Yoon (Seoul National University, Korea)
<i>"Central fatigue in young and old men and women"</i> . | PhD, 01.2006 |
| 4. Orawan Prasartwuth (University of Sydney, Australia).
<i>"Neural Control of Eccentric Contractions"</i> | PhD, 11.2005 |

MASTER'S LEVEL (PRIMARY ADVISOR)**University of Michigan**

- | | |
|--|------|
| 1. Frank Doyle (MOVSCI program, School of Kinesiology, University of Michigan) | 2026 |
| 2. Mohammed Hamed (Movement Science, School of Kinesiology) | 2025 |

Marquette University

- | | |
|---|---------|
| 3. David Wrucke (EXRS program, Marquette University) | 05.2023 |
| 4. Emily Anderson (EXRS program, Marquette University) | 05.2023 |
| 5. Mira Atkinson (EXRS program, Marquette University) | 05.2023 |
| 6. Lindsey Mirkes (EXRS program, Marquette University) | 05.2022 |
| 7. Kevin Ryan (CTRH program, Marquette University) | 05.2019 |
| 8. Jose Delgadillo (CTRH program, Marquette University) | 05.2019 |
| 9. Andrew Kuplic (CTRH program, Marquette University) | 08.2017 |

MASTER'S LEVEL (ADVISOR AND COMMITTEE MEMBER)

- | | |
|---|---------|
| 1. Heidi Hillebrandt (Co-director) University of Newcastle, Newcastle, Australia | 12.2017 |
| 2. Henry Kuhn (Biomedical Engineering, Marquette University). <i>"Abnormal neuromuscular fatigue and motor performance of the knee extensors post stroke"</i> | 04.2012 |
| 3. Rubing Xu (Biomedical Engineering, Marquette University). <i>"Design and validation of an MR-compatible upper extremity evaluation system to study brain activation patterns after stroke"</i> | 01.2010 |
| 4. Debjani Chaudhuri (Biomedical Engineering, Marquette University). <i>"Hip-mediated modulation of spinal reflexes and inhibitory control systems in human spinal cord injury"</i> | 01.2006 |
| 5. Vaidehi Chaukulkar (Biomedical Engineering, Marquette University). <i>"Hip position dependent reflex responses to nerve stimulation in human spinal cord injury"</i> | 07.2006 |
| 6. Keneilwe Mmopi (University of Sydney, Australia). <i>"Effects of Performance with Combined Endurance and Strength Training"</i> | 1998 |

UNDERGRADUATE LEVEL (PRIMARY, MARQUETTE UNIVERSITY)**University of Michigan**

- | | |
|-----------------------------|----------------|
| 1. Revati Ignaczak (Honors) | 2025 - present |
| 2. Mia Gramstad | 2026 - present |
| 3. Alyson Yeshion | 2025 - present |
| 4. Marcos Mahia | 2025 - present |
| 5. Koen Aldridge | 2025 - present |
| 6. Dema Abu Zraineh | 2025 – present |
| 7. Letitia Sim | 2025-2026 |
| 8. Andrew Oh | 2024-2026 |

Marquette University

- | | |
|-----------------|-----------|
| 1. Juan Morales | 2023-2024 |
|-----------------|-----------|

2.	Emory Heath	2023-2024
3.	Maggie Quinn	2022-2024
4.	Riley Boyle	2023
5.	Emma Vosters	2021-2023
6.	Rachel Nesburg	2021-2023
7.	Samantha Kindy	2021-2022
8.	Emily Anderson	2021-2022
9.	Lindsey Mirkes	2021-2022
10.	David Wrucke	2020-2022
11.	Rachel Beilfuss	2019-2022
12.	Meggie Rose Hart	2019-2022
13.	Gretchen Zirgaitis	2020-2021
14.	John Lighthart	2021
15.	Michael Hendrickson	2019-2021
16.	Rachel Weeks	Fall 2019
17.	Karis Yang	2017-2021
18.	Monica Geiser	2017-2020
19.	Cassandra Goodrich	2018-2019
20.	Sarah D'Astice	2016 - 2019
21.	Savannah Hickok	2017-2019
22.	Elizabeth Clements	2017-2018
23.	Kevin Ryan	2017- 2018
24.	Mitch Adam	2016-2018
25.	Jordan Lemens	2016
26.	Tate Pashibin	2014-2016
27.	Christine Eble	2014-2016
28.	Andrew Kuplic	2014-2015
29.	Courtney Linzmeier	2014-2015
30.	Tyler Esser	2014 – 2015
31.	Megan Boyle	Fall 2013 - 2014
32.	Isaac Pierre	Fall 2011 -2014
33.	Caitlin Fortuna	Fall 2012 -2014
34.	Joseph Bartoletti	Fall 2012-2014
35.	Ethan Jedziniak	Spring 2014
36.	Becky Beroussa	2012- 2014
37.	Jonathon Senefeld	2010-2013
38.	Anna Buzzard	2013
39.	Kelleen Boehlke	Summer 2013
40.	Vincent Spears	2011-2013
41.	Joseph Fleming	2012-2013
42.	Alyssa Stevens	2009-2013
43.	Nicholas Elliot	2011-2013
44.	Ryan Doyel	2009-2012
45.	Kelsey Helland	Spring 2012
46.	Katalin Skelton	2008-2011
47.	Melanie Hoffman	Summer 2011
48.	Peter Kuhn	2010-2011
49.	Jaclyn Pruse	2007-2011
50.	Matthew Coon	2009
51.	Claire Fiandt-Widule	2009
52.	McKenzie Fauth	2008-2009
53.	Kelly Magennis	2008-2009
54.	Joseph Farinella	2006-2008
55.	Erin Griffith	2004-2008
56.	Sarah Bly	2007
57.	Rachel Hawe	Summer 2007
58.	Kristine Schlachter	2004-2006

59. Richard Daignault	2006
60. Scott Wendall	2006
61. Jane Hennessy	2006
62. Charnon Barnes	2004-2005
63. James McGuire	2005
64. Victor Stanton	2005
65. Timothy Kufahl	2005
66. Tiffany Trott	2004-2005
67. Bradley Ritland	2004
68. Jennie Sanders	2004

X. PROFESSIONAL ACTIVITIES AND SERVICE

A. MEMBERSHIPS IN PROFESSIONAL SOCIETIES

1. American College of Sports Medicine	1999 - present
Fellow of ACSM (FACSM)	2005 - present
Member of Mid-West Regional Chapter	2004 - present
2. American Physiological Society	2000 - present
3. Society for Neuroscience	2002 - present
4. Society for the Neural Control of Movement	2009 – 2012
5. European College of Sports Science	2013 – present
6. International Society of Electromyography and Kinesiology	2011 - present

B. OTHER PROFESSIONAL ORGANIZATIONS | ACTIVITIES | SERVICE

1. Fellow of the American College of Sports Medicine	Conferred 2005
2. ACSM Program Committee	2022 - present
3. Symposium Co-ordinator and organizer of two 2-hour symposium at the ACSM national meetings	2001 and 2006
3. Editorial Services for Journals	
<u>Editor-in-Chief</u> <i>Exercise and Sports Science Reviews</i>	01.2023 - present
<u>Associate Editor:</u> <i>Medicine and Science in Sports & Exercise</i>	07.2013 – 12.2025
<u>Associate Editor:</u> <i>Exercise and Sports Science Reviews</i>	01.2015 – 12.2022
Editorial Board: <i>Journal of Applied Physiology</i>	2007 - 2018
Editorial Board: <i>Journal of Motor Behavior</i>	2012 - 2017

Manuscript reviewer for:

Acta Physiologica Scandinavica	Journal of Perceptual Motor Skills
Applied Physiology, Nutrition, and Metabolism	Journal of Physiology
Clinical Neurophysiology	Journal of Sports Science
Clinical Physiology and Functional Imaging	Journal of Visualized Experiments
Diabetes	Neuroimage
Ergonomics	Neuroscience Journal
European Journal of Applied Physiology	Medicine and Science in Sports and Exercise
European Journal of Physiology	Muscle and Nerve
Experimental Brain Research	Physical Therapy
Experimental Gerontology	Physiology and Behavior
Experimental Physiology	Scandinavian Journal of Medicine Sports Science
Experimental Brain Research	Sports Medicine
Journals of Gerontology	PloS One
Journal of Neurophysiology	Frontiers of Aging Neuroscience
Journal of Neuroscience Methods	Frontiers of Human Neuroscience
Frontiers in Neurology	

TOTAL NUMBER OF MANUSCRIPTS REVIEWED PER YEAR FOR PEER REVIEWED JOURNALS

2003: 14	2006: 16	2009: 32	2012: 30	2015: 51	2018: 21	2021: 24	2024: 21
2004: 13	2007: 21	2010: 18	2013: 31	2016: 41	2019: 26	2022: 16	2025: 14
2005: 22	2008: 23	2011: 26	2014: 32	2017: 30	2020: 20	2023: 16	

C. GRANT REVIEWER

1. University of Wisconsin, Milwaukee: Research Growth Initiative (\$150K) 2009
2. New Zealand Marsden Fund Fast-Start Grant for New Investigators and High Impact Research, \$100K) 2009
3. Canadian National Science and Engineering Research Council (NSERC Discovery Grant, \$250K) 2008 - 2012
4. Canadian Michael Smith Foundation (Postdoctoral research scholarship award) 2011
5. CTSI SE Wisconsin Pilot Award Program 2013-2016
6. American College of Sports Medicine Grant Review Committee 2017
7. Australian National Health and Medical Research Council (NHMRC) grant. 2018
8. NIH grant reviewer for R15 AREA Neurosciences study section (ZRG1 MDCN-R) 2013-2020
9. NIH grant reviewer for NIH-NIA-R01 Review - RFA-AG-24-045, titled, "Elucidating Variability of Physiologic and Functional Responses to Exercise Training in Older Adults (R01 Clinical Trial Required)". 02.2025

D. EXTERNAL CONSULTATION / PROFESSIONAL SERVICE

Expert Panellist & Research Consultant, Halmstad University, Sweden 2013
Evaluation and recommendations of Biological and Environmental Systems Research Environment

FINA: Federation of International Aquatic Sports (World Aquatics) January - June 2022
Literature review on paper (22-page document) on the *Sex Differences in Performance and the Transgender Athlete*
Science and medical perspective for transgender athlete policy development.

Data Safety Monitoring Board (Ohio University) Jan 2021- July 2022
Committee member (NIH funded study on immobilization-PI Dr Brian Clark)

World Athletics December 2023- May 2024
Sex differences in track and field consultant: expert witness for the International Court of Arbitration of Sport (CAS)
case on disorders (or differences) of sex development (DSD)

XI. UNIVERSITY SERVICE

A. UNIVERSITY SERVICE**Marquette University**

1. **Academic Coach- Marquette Women's Basketball Team** Feb 27, 2023
2. **Centers and Institutes Directors Leadership Committee** 2022-2023
3. **Institute for Women's Leadership Faculty Council** 2021-2023
4. **COVID-19 Research Initiative Steering Committee Chair** 03.2020 – 10-2021
5. **Committee on Research, non-member invited attendee** 08.2018 – 06.2021
6. **Associate Dean of Research Council member** 02.2015 – 06.2021
7. **Academic Misconduct Investigation Committee** Spring-Fall 2019
8. **Search Committee for the Title IX Director at Marquette** Fall 2018
9. **Forward Thinking Poster Session and Colloquy Presentation Judge** 11.28.2017

- | | | |
|-----|--|-----------------------|
| 10. | Search Committee for the Director of University Advancement (Faculty Representative) | August -Sept 2017 |
| 11. | Athletic Performance Research Center Leadership Team (Team Lead) | Fall 2016 |
| 12. | Pere Marquette Dinner Emcee | 05.30.2015 |
| 13. | Innovation Council Review Board | 11.2014 – 05.2015 |
| 14. | Presidential Inauguration Ceremony Steering Committee Member | 05-09.2014 |
| 15. | Marquette University Strategic Planning Committee | 08.2012 - 05.2013 |
| 16. | University Academic Senate Executive Committee | 08.2012 - 05.2013 |
| 17. | University Academic Senate: CHS senator (representative) | Spring 2011 - 05.2013 |
| 18. | Gender Resources Center Faculty-in Residence Search Committee | 02 - 04.2012 |
| 19. | Mentor in the Faculty Mentoring Program: Mentor in Dept. of Speech Therapy | 2010 - 2012 |
| 20. | Committee on Equity | 2008 - 2010 |
| 21. | Chair of a University Committee: Comprehensive Planning Committee, Marquette Childcare Center | 2007 - 2010 |
| | a. Chair of Subcommittee for Program Planning | |
| | b. Chair of Subcommittee for Business Planning | |
| 22. | Committee on Faculty Women’s sub-committee (regular member) | 2007 |
| 23. | Manresa First Year Reading Program Discussion Leader | 08.2006 |

B. COLLEGE/SCHOOL SERVICE

University of Michigan: School of Kinesiology

- | | | |
|----|---|-----------------------|
| 1. | School of Kinesiology: Faculty Search Committee | Oct 2025 – April 2026 |
| | Data analytics and AI faculty cluster hire in the School of Kinesiology | |

Marquette University (2003-2024)

- | | | |
|----|--|-------------------|
| 2. | College of Health Sciences Search Committee Chair for the Associate Dean of the CHS | 2023 |
| 3. | College of Health Sciences Promotion and Tenure Committee | 2011 – 2016, 2019 |
| | Physical Therapy and Exercise Science Representative | |
| 4. | Marquette Presents: ‘Exercise is Medicine’ Seminar to the public | 01.2014 |
| | ‘Exercise is Medicine and the Effects of Aging.’ | |
| | Organized by the College of Health Science at Marquette University | |
| 5. | College of Health Science Advancement Presentation to Alumni | 11.2011 |
| | Washington DC. Presenter of research | |
| 6. | College of Health Science Advancement and Bellin Health Care Presentation to Alumni | 05.2011 |
| | Green Bay, WI. Presenter of research | |
| 7. | College of Health Science Advancement Emersion Day | 05.2008 |
| | Marquette University. Presenter of research | |
| 8. | Integrative Neuroscience Research Center | 11.2004 / 11.2006 |
| | Marquette University. Host and organizer of guest speakers | |

C. PROGRAM | DEPARTMENTAL SERVICE

University of Michigan: Movement Science Program

- | | |
|-----------------------------------|---------------|
| Program Chair of Movement Science | 2024- Present |
|-----------------------------------|---------------|

Marquette University: Department of Physical Therapy

- | | | |
|----|---|-------------|
| 1. | Department Promotion and Tenure Committee | 2009 - 2024 |
| 2. | Graduate Student Advising | 2004- 2024 |
| 3. | Undergraduate Student Advising (each semester): 15-48 students/semester (48 students in Fall 2017) | 2003 - 2018 |

4. **Faculty Search Committee:** Tenure-track Faculty, Department of Physical Therapy Summer 2016- Spring 2017
5. **Faculty Search Committee:** Tenure-track Faculty, Program in Exercise Science Spring 2011
6. **Co-ordinator of Graduate Research Summer Journal Club** 06 - 08.2010
7. **Co-ordinator of Meeting of the Minds Departmental Research Seminar** 05.2007 - 2010
8. **Exercise Science presentation** to incoming freshman students and parents 02.2007
9. **Faculty Search Committee:** Tenure-track Faculty, Dept. of Physical Therapy 2006 - 2007
10. **Faculty Graduation Speech:** Exercise Science Program, Dept. of Physical Therapy 05.2006
11. **Co-ordinator of the Exercise Science Research Day: "Fatigue in Health and Disease"** 11.2004
Co-ordinator of a symposium of 6 x 30 min research presentations by graduate and undergraduate students in the Exercise Science Program
12. **Faculty Search Committee:** Tenure-track Faculty, Dept. of Physical Therapy 2004
13. **Faculty Search Committee:** Non-tenure (clinical Faculty, Dept. of Physical Therapy) 2004

D. COMMUNITY SERVICE

1. **Mentor and Research Supervisor for High School Students** Oct 2025 - May 2026
2. **Mentor and Research Supervisor for High School Students** Summers 2021 - 2023
8 high school students from local high schools
3. **Board Member on the Council of Elders, Elmbrook Church, Brookfield** Jan 2015 – Dec 2020
4. **Mentor and Research Supervisor for High School Student** Summer 2011 - Spring 2012
Divine Holy Savior Angels High School

XII. AWARDS AND HONORS

1. **American College of Sports Medicine Citation Award** 05.30.2025
2. **Named in the world's top 2% of most cited scientists ([Stanford University Research](https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7))** 09.2024
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>
3. **'All Star Faculty' Recognition: Marquette University Men's Basketball Game, Fiserv Forum** 12.22.2023
4. **Edward F. Adolph Distinguished Lectureship of the APS Environmental and Exercise Physiology Section** 2023
American Physiological Society (APS) Summit, Long Beach, CA, April 20-23, 2023
Performance Fatigability: An Integrative Approach to a Common Problem
2. **Academic Coach and Recognition- Marquette Women's Basketball Team** 02.27.2023
3. **Institute for Women's Research Honor, Marquette University** 2022
4. **Outstanding Researcher, College of Health Sciences, Marquette University** 2020
5. **Visiting Distinguished Thought Leader Award: University of South Australia, Australia** 2018
Awarded by the University of South Australia, to work with faculty and researchers in the Health Sciences, Pharmacy and Medical Sciences to enhance their research.
6. **Nora Finnigan Werra Faculty Achievement Award from the Association of Marquette University Women Alumni** 04.2016
7. **'All Star Faculty' Recognition: Marquette University Men's Basketball Game, Bradley Center** 01.20.2016
8. **Pere Marquette Emcee:** Marquette end of Year all University Faculty Awards Ceremony 4.30.2015
9. **University Excellence in Teaching Award, Marquette University** 05.2014
10. **Way Klingler Research in Science Fellowship, Marquette University** 04.2014
11. **Appointed Associate Editor of the Journal titled 'Medicine in Science, Sports and Exercise'** 2014

12. **National Aeronautics and Space Administration (NASA) and the National Space Biomedical Research Institute Musculoskeletal Workgroup:** 2013 Decadal Study workgroup that generated a report on "The Impact of Sex and Gender on Adaptation to Space." 2013
13. **Edward Carroll Teacher of the Year Award, College of Health Sciences, Marquette University** 2013
14. **Dr. Judith Stitt Women's Faculty Scholarship: Wisconsin Women's Health Foundation** 2008
15. **Way Klingler Young Scholar Award, Marquette University** 2007
16. **Fellow of the American College of Sports Medicine (FACSM)** 2005
17. **American Physiological Society Research Career Enhancement Award** 2004
18. **American College of Sports Medicine Research Endowment Award** 2002
19. **Research Excellence, Wendy Eye Award, Best Paper on Women in Sport** 1998
Australian Conference of Science and Medicine in Sport, Adelaide, Australia
20. **Best Young Scientist Finalist** 1996
The American Physiological Society Conference, Vancouver, Canada
21. **University of Sydney Postgraduate Research Award Scholarship, Australia** 1994 - 1996
22. **Young Investigator of the Year Commendation (Basic Science)** 1995
Australian Conference of Science and Medicine in Sport. Hobart, Australia

XIII. INTERVIEWS AND CITATIONS IN POPULAR MEDIA

1. **Time Magazine**
06.18.2025
[Becoming a Bodybuilder at 50 Showed Me That Women Were Never Meant to be Thin](#)
by Anne Mari Chaker
2. **Washington Post**
06.02.2025
[4 ways women are physically stronger than men](#)
by Starre Vartan
3. **Triathlete Magazine**
03.29.2024
The Physiology Behind Women Kicking A** at Ultraman Races
by Kristin Jenny
[The Physiology Behind Women Kicking A** at Ultraman Races](#)
4. **Runner's World**
07.11.2023
How Tiredness Differs from Fatigue Symptoms
By Elizabeth Millard
<https://www.runnersworld.com/health-injuries/a44481673/tiredness-and-fatigue-symptoms/>
5. **Outside Magazine**
05.12.2023
Can Women Outperform Men in Sports? That's the Wrong Question to Ask
By Christine Yu
https://www.outsideonline.com/health/training-performance/female-athlete-science-up-to-speed-book-christine-yu/?utm_source=yahoo&utm_medium=OUTSIDE&utm_campaign=discover_rss
6. **620 WTMJ** Interview: a conversation on long COVID with President Lovell
03.09.2023 https://serve.castfire.com/audio/4098762/4098762_2023-03-09-171002.128.mp3
7. **WisBusiness**, Researchers getting a \$3 million grant to study factors limiting exercise for pre-diabetic patients
10.06.2022

<https://www.wisbusiness.com/2022/thu-am-news-economist-says-state-exports-showing-strong-recovery-california-port-director-discusses-supply-chain-trends/>

8. **Spectrum News 1:** [What is COVID-19 doing to your body long term?](#) 02.04.2022
By Megan Marshall
9. **Runner's World** Why Has the American Record in the Women's Marathon Stood for So Long? 10.01.2021
<https://www.runnersworld.com/news/a37792757/womens-marathon-american-record/>
By Cindy Kuzma
10. **Wisconsin Public Radio Interview**, Why Walking Is Good For Us <https://www.wpr.org/listen/1853831> 09.22.2021
11. **TMJ4 TV News:** Long Haul Covid-19 Survivors study 07.28.2021
<https://www.tmj4.com/news/coronavirus/marquette-researchers-looking-for-more-long-haul-covid-19-survivors>
12. **FOX6 News:** [Man who was Milwaukee County's 1st COVID case part of MU long haul study \(fox6now.com\)](#) 03.29.2021
13. **WUWM National Public Radio**, Lake Effect Program. 'Fit For You: Cold Weather Exercise Tips' 02.04.2021
Interview with Audrey Nowakowski.
14. **Podium Runner**, 'New 10-Year Study Confirms Super Shoe Effect' By Amby Burfoot 01.04.2021
15. **Jobling Globe**, Jobling MO, 'Study finds mask mandates result in compliance'. 11.29.2020
Interview on Mask Mandates journal publication https://www.joblinglobe.com/news/local_news/study-finds-mask-mandates-result-in-compliance/article_caced507-294e-5bf7-bd87-4b7232449047.html
16. **WUWM National Public Radio**, Lake Effect Program. 09.28.2020
'Mask Mandates are Necessary to Slow the Spread Of COVID-19?' Interview with Audrey Nowakowski
<https://www.wuwm.com/post/marquette-study-shows-mask-mandates-are-necessary-slow-spread-covid-19#stream/0>
17. Washington Post 'More women gain ground in ultramarathons, and other long-distance races' 09.26.2020
By Amanda Loudin
https://www.washingtonpost.com/health/women-long-distance-runners/2020/09/25/bffdda10-1871-11ea-a659-7d69641c6ff7_story.html
18. **You are Marquette.** 'Surviving COVID-19' 08.31.2020
<https://stories.marquette.edu/surviving-covid-19-e6b782734aa0>
19. **WUWM National Public Radio**, Lake Effect Program. 'Tips for Wearing a Mask While Exercising' 08.04.2020
Interview with Audrey Nowakowski
<https://www.wuwm.com/post/tips-wearing-mask-while-exercising#stream/0>
20. **Discover Magazine** '5 Exercise Myths Debunked by Science' 06.13.2020
<https://www.discovermagazine.com/health/5-exercise-myths-debunked-by-science>
21. **Outside magazine** 'What the Future of Fast Marathons Looks Like' 05.19.2020
https://www.outsideonline.com/2413647/marathon-physiology-study-responses?utm_campaign=rss&utm_source=rss&utm_medium=xmlfeed
22. **Swedish TV documentary** (Swedish national TV) 05.10.2020
[Bästa träningen - 2. "Utan smärta finns ingen njutning heller"](#) (starting at minute 37)
23. **Federally funded research programs improving human health and safety** 09.17.2019
[Wisconsin Business](#)
24. **Elemental** 'What Makes Women Strong?' 06.10.2019
By Starre Julia Vartan
<https://elemental.medium.com/what-makes-women-strong-2c927bf286ef>
25. **The Walrus**, 'When Male Runners Lose to Women' 05.02.2019
By Leyland Cecco
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