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PRIMARY POSITION	PROFESSOR <i>Exercise Science Program Department of Physical Therapy</i> DIRECTOR: ATHLETIC & HUMAN PERFORMANCE RESEARCH CENTER <i>Office of Research and Innovation</i> <i>Marquette University</i> Rm 230N, Cramer Hall PO Box 1881 Milwaukee, W 53201
AFFILIATE POSITIONS	ASSOCIATE EDITOR <i>Medicine and Science in Sports and Exercise</i> <i>Exercise and Sport Science Reviews</i>
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I. EDUCATION

Postdoctoral Research Associate	<i>University of Colorado</i> , 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>	<i>University of Sydney</i> , 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>	<i>University of Wollongong</i> , Australia	1992
Bachelor of Education <i>Physical Education & Health</i>	<i>University of Sydney</i> , Australia	1985

II. ACADEMIC, SCHOLARLY AND PROFESSIONAL EXPERIENCE

Director	Athletic and Human Performance Research Center <i>Marquette University</i> , Milwaukee, WI <i>Office of Research and Innovation</i>	06.2020 - present
Planning Director	Athletic and Human Performance Research Center <i>Marquette University</i> , Milwaukee, WI <i>Office of Research and Innovation</i>	09.2018 – 06.2020
Professor	<i>Marquette University</i> , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2014 - present
Associate Professor	<i>Marquette University</i> , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2009 - 07.2014

Assistant Professor	<i>Marquette University</i> , Milwaukee, WI <i>Exercise Science Program, Department of Physical Therapy</i>	08.2003 - 07.2009
Postdoctoral Research Associate	<i>University of Colorado</i> , 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	<i>Nepean Hospital</i> , Sydney, Australia <i>Division of Geriatrics & Rehabilitation</i> Research: Strength and aerobic training in dependent old adults	1998 - 1999
Research Assistant	<i>University of Sydney</i> , Australia <i>School of Physiotherapy and School of Exercise & Sport Science</i>	1994 - 1999
Teaching Assistant	<i>University of Sydney</i> , Australia <i>School of Exercise & Sport Science</i> Teaching areas: exercise physiology and biomechanics	1992 - 1996
High School Teacher	<i>Downlands College</i> , Toowoomba, Queensland, Australia <i>Physical Education, Health & Geography Teacher; Women's Sports Coordinator</i>	1985 - 1988

III. PUBLICATIONS

A. REFEREED JOURNALS

JOURNAL PUBLICATIONS

2020

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 *Experimental Physiology*, accepted for publication, Sept 28, 2020.
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 [London]*, First published: 10 Sept 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. *Journal of Electromyography & Kinesiology*, accepted for publication, Aug 19, 2020.
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*, Aug 13, 2020. Online ahead of print. PMID: 32789699 DOI: 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. *Physiological Reports*, 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*, Apr 29, 2020. doi: 10.1152/ajpcell.00575.2019. PMID: 32348175
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.
110. Senefeld J, D'Astice S, Harmer AR, and **Hunter SK**. Increased cardiovascular response to a 6-minute walk test in people with type 2 diabetes. *Diabetes Spectrum.* Feb;33(1):104-110, 2020. doi: 10.2337/ds19-0002. PMID: 32116462

2019

109. Ansdell P, Brownstein CG, Škarabot J, Hicks KM, Howatson G, Thomas K, **Hunter SK**, Goodall S. Methodological issues influence determination of critical force during intermittent exercise: authors' reply. *J Physiol.* Dec;597(24):5987-5989, 2019. doi: 10.1113/JP279085. PMID: 31763698
108. Ansdell P, Brownstein CG, Škarabot J, Hicks KM, Howatson G, Thomas K, **Hunter SK**, and Goodall S. Sex differences in fatigability and recovery relative to the intensity-duration relationship. *J Physiol.* 597 (23), 5577-5595, 2019. doi: 10.1113/JP278699.] PMID: 31529693.
107. Sundberg CW, Prost RW, Fitts RH, **Hunter SK**. Bioenergetic basis for the increased fatigability with ageing. *J Physiol.* Oct;597(19):4943-4957, 2019. doi: 10.1113/JP277803. PMID: 31018011
106. Senefeld JW, **Hunter SK**. Are masters athletic performances predictive of human aging in men and women? *Mov Sport Sci/Sci Mot.* July 12, 2019. <https://doi.org/10.1051/sm/2019018>.
105. Rozand V, Senefeld JW, Sundberg CW, **Hunter SK**. Differential effects of aging and physical activity on corticospinal excitability of upper and lower limb muscles. *J. Neurophysiology.* Jul 1;122(1):241-250, 2019. <https://doi.org/10.1152/jn.00077.2019>, PMID:31091158
104. Ansdell P, Brownstein CG, Škarabot J, Hicks KM, Simoes D, Thomas K, Howatson G, **Hunter SK**, Goodall S. Menstrual cycle associated modulations in neuromuscular function and fatigability of the knee extensors in eumenorrhic females. *J Appl Physiol.* Jun 1;126(6):1701-1712, 2019. <https://doi.org/10.1152/jappphysiol.01041.2018>, PMID: 30844334
103. Murphy S, Durand M, Negro F, Farina D, **Hunter SK**, Schmit B, Gutterman D, Hyngstrom A. The Relationship Between Blood Flow and Motor Unit Firing Rates in Response to Fatiguing Exercise Post-stroke. *Front Physiol.* May 10;10:545, 2019. doi: 10.3389/fphys.2019.00545. eCollection 2019. PMID: 31133877. <https://www.frontiersin.org/articles/10.3389/fphys.2019.00545/full>
102. Deering RE, Pashibin T, Cruz M, **Hunter SK**, Hoeger Bement M. Fatiguing trunk flexor exercise decreases pain sensitivity in postpartum women. *Frontiers in Physiology.* Mar 26;10:315. doi: 10.3389/fphys.2019.00315. eCollection 2019. PMID: 30971949 <https://www.ncbi.nlm.nih.gov/pubmed/30971949>
101. Senefeld J, Limberg JK, Lukaszewicz KM and **Hunter SK**. Exercise-induced hyperemia is associated with knee extensor fatigability in adults with Type 2 diabetes. *J Appl Physiol.* Mar 1;126(3):658-667, 2019. PMID: 30605399.
100. Pereira HM, Schindler-Delap B, Keenan KG, Negro F, Farina D, Hyngstrom AS, Nielson KA, and **Hunter SK**. Oscillations in neural drive and age-related reductions in force steadiness with a cognitive challenge. *J Appl Physiol.* Apr 1;126(4):1056-1065, 2019. <https://doi.org/10.1152/jappphysiol.00821.2018>, PMID: 30817244

2018

99. Murphy SA, Negro F, Farina D, Onushko T, Durand M, **Hunter SK**, Schmit BD and Hyngstrom AS. Stroke increases ischemia-related decreases in motor unit discharge rates *J Neurophysiol.* 120: 3246 –3256, 2018. doi: 10.1152/jn.00923.2017. PMID: 30379629
98. Pereira HM, Schlinder-Delap B, Nielson KA, **Hunter SK**. Force steadiness during a cognitively challenging motor task is predicted by executive function in older adults. *Frontiers in Physiology* 9(1316), 2018.
97. Sundberg CW, **Hunter SK**, Trappe SW, Smith CS, Fitts R. Effects of elevated H⁺ and Pi on the contractile mechanics of skeletal muscle fibres from young and old men: implications for muscle fatigue in humans. *J Physiol.* Sep;596(17):3993-4015, 2018. PMID: 29806714 PMCID: PMC6117549.
96. Deering RE, Senefeld JW, Pashibin T, Neumann DA, Cruz M, **Hunter SK**. Fatigability of the lumbopelvic stabilizing muscles in women 8 and 26 weeks postpartum. *Journal of Women's Health Physical Therapy.* Sep-Dec;42(3):128-138. 2018. PMID: 30740039. PMCID: PMC6366649.
95. Senefeld J, Magill SB, Harkins A, Harmer AR, **Hunter SK**. Mechanisms for the increased fatigability of the lower limb in people with Type 2 Diabetes. *J Appl Physiol.* Aug 1;125(2):553-566, 2018. PMID: 29596017

94. Deering RE, Cruz M, Senefeld JW, Pashibin T, Eickmeyer S, **Hunter SK**. Impaired trunk flexor strength, fatigability and steadiness in postpartum women. *Med Sci Sports Exerc*. Aug;50(8):1558-1569, 2018. PMID: 29554014.
93. Sundberg CW, Kuplic A, Hassanlouei H, **Hunter SK**. Mechanisms for the age-related increase in fatigability of the knee extensors in old and very old adults. *J Appl Physiol* (1985). Jul 1;125(1):146-158, 2018. doi: 10.1152/jappphysiol.01141.2017 PMID: 29494293
92. Keenan, KG, Senefeld JW & **Hunter SK**. Girls in the Boat: Sex Differences in Rowing Performance and Participation. *PLOS ONE*. Jan 19;13(1):e0191504. doi: 10.1371/journal.pone.0191504. eCollection 2018. PMID: 29352279.
91. Senefeld JW, Pereira HM, Elliott N, Yoon T and **Hunter SK**. Sex differences in mechanisms of recovery after isometric and dynamic fatiguing tasks. *Med Sci Sports Exerc*. 50(5):1070-108, 2018. PMID: 29298217, PMCID: PMC5899026

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90. Rozand V, Senefeld JW, Hassanlouei H, **Hunter SK**. Voluntary activation and variability during maximal dynamic contractions with aging. *Eur J Appl Physiol*. Dec;117(12):2493-2507 2017. PMID: 29058113.
<https://www.ncbi.nlm.nih.gov/pubmed/29058113>
89. Andsell P, Thomas K, Howatson G, **Hunter SK**, Goodall S. Contraction intensity and sex differences in knee-extensor fatigability. *J Electromyogr Kinesiol*. Dec;37:68-74. 2017. doi: 10.1016/j.jelekin.2017.09.003. PMID: 28963937
88. Hassanlouei H, Sundberg W, Smith E, Kuplic A, and **Hunter SK**. Physical activity modulates corticospinal excitability of the lower limb in young and old adults. *J Appl Physiol*, Aug 1;123 (2):364-374. DOI: 10.1152/jappphysiol.01078.20162017. PMCID: PMC5614787.
87. **Hunter SK**. Performance Fatigability: Mechanisms and Task Specificity. *Cold Spring Harb Perspect Med (Biology of Exercise)*. May 15. pii: a029728. doi: 10.1101/cshperspect.a029728, 2017. PMID: 28507192. (Invited Review).
86. Casamento-Moran A, **Hunter SK**, Chen YT, Kwon MH, Fox EJ, Yacoubi B, Christou EA. Sex-differences in spatial accuracy relate to the neural activation of antagonistic muscles in young adults. *Experimental Brain Research*. Aug;235(8):2425-2436, 2017. PMID: 28500456
85. Lee A, Baxter J, Eischer C, Gage M, **Hunter SK**, Yoon T. Sex differences in neuromuscular function after repeated eccentric contractions of the knee extensor muscles. *Eur J Appl Physiol*, Jun;117(6):1119-1130. PMID: 28432420.
84. Deering RE, Senefeld JW, Pashibin T, Neumann DA, **Hunter SK**. Muscle function and fatigability of trunk flexors in men and women *Biology of Sex Differences*. Apr 17; 8:12, 2017. doi: 10.1186/s13293-017-0133-y. eCollection 2017. PMID: 28428836.
83. Kirking M, Berrios Barillas R, Nelson PA, **Hunter SK**, Hyngstrom AS. Sex differences in neuromuscular fatigue of the knee extensors post stroke *Brain Sci* Jan 12;7(1). 2017. PMCID: PMC5297297 DOI: 10.3390/brainsci7010008
82. Sundberg CW, **Hunter SK**, Bundle MW. Rates of performance loss and neuromuscular activity in men and women during cycling: evidence for a common metabolic basis of muscle fatigue. *J Appl Physiol* (1985). Jan 1;122(1):130-141, 2017. doi: 10.1152/jappphysiol.00468.2016. PMID: 27856712
81. Senefeld J, Yoon T and **Hunter SK**. Age differences in dynamic fatigability and variability of arm and leg muscles: associations with physical function. *Experimental Gerontology* Jan; 87: 74–83, 2017. PMID: 27989926, PMCID: PMC5362345

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80. **Hunter SK**, Pereira HM, Keenan KG. The aging neuromuscular system and motor performance. *J Appl Physiol* Oct 1;121(4):982-995, 2016. doi: 10.1152/jappphysiol.00475.2016. Review. PMID: 27516536. PMCID: PMC5142309. (Invited Review).
79. **Hunter SK**. The relevance of sex differences in performance fatigability. *Med Sci Sports Exerc*. Nov;48(11):2247-2256, 2016 PMID: 27015385 (Invited Review).
78. **Hunter SK**, McNeil CJ, Butler JE, Gandevia SC, Taylor JL. Short-interval cortical inhibition and intracortical facilitation during submaximal voluntary contractions changes with fatigue. *Experimental Brain Research*. Sep;234(9):2541-51, 2016. doi: 10.1007/s00221-016-4658-9. PMID: 27165508. PMCID: PMC5349854
77. Senefeld J, Smith C and **Hunter SK**. Sex differences in participation, performance and the age of ultramarathon runners. *International Journal of Sports Physiology and Performance* Jul;11(7):635-42, 2016. doi: 10.1123/ijsp.2015-0418. PMID: 26561864
76. Senefeld J, **Hunter SK**. Molecular underpinnings of diabetic polyneuropathy. *J Appl Physiol* (1985). Jul 1;121(1), 360, 2016. doi: 10.1152/jappphysiol.00380.2016. PMID: 27451278

75. Deaner RO, Addona V, Carter RE, Joyner MJ, **Hunter SK**. Fast men slow more than fast women in a 10 kilometer road race. *PeerJ*. 2016 Jul 21;4:e2235. doi: 10.7717/peerj.2235. eCollection 2016. PMID: 27547544
74. **Hunter SK**. Sex differences in fatigability of dynamic contractions. *Exp Physiol*. Feb;101(2):250-5, 2016. doi: 10.1113/EP085370. PMID: 26440505. (Invited Review).
73. Senefeld J, Joyner MJ, Stevens AA and **Hunter SK**. Sex differences in elite swimming with advanced age are less than marathon running. *Scandinavian Journal of Medicine and Science in Sports*. Jan;26(1):17-28, 2016 PMID: 25648250

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72. Durand M, Schaefer K, **Hunter SK**, Schmit BD and Hyngstrom AS. Impaired Hyperemic Response to Exercise Post Stroke. *PLOS One*. 2015 Dec 2;10(12). PMID: PMC4667998
71. Stolzman S, Danduran M, **Hunter SK** and Hoeger Bement M. Pain response after maximal aerobic exercise in adolescents across weight status. *Medicine & Science in Sports and Exercise*. Nov;47(11):2431-40, 2015. PMID: PMC4598265
70. Yoon T, Doyel R, Widule C and **Hunter SK**. Sex differences with aging in the fatigability of dynamic contractions. *Experimental Gerontology*. Oct;70:1-10, 2015. PMID: 26159162
69. Pereira HM, Spears VC, Schlinder-Delap B, Yoon T, Harkins A, Nielson KA, Hoeger-Bement M and **Hunter SK**. Sex differences in arm muscle fatigability with cognitive demand in older adults. *Clinical Orthopaedics and Related Research*. Aug;473(8):2568-77. 2015. PMID: 25712862
68. Pereira HM, Spears VC, Schlinder-Delap B, Yoon T, Nielson KA and **Hunter SK**. Age and sex differences in steadiness of elbow flexor muscles with imposed cognitive demand. *European Journal of Exercise Physiology*. Jun;115(6):1367-79, 2015. PMID: 25633070
67. **Hunter SK**, Joyner MJ and Jones AW. Last Word on Veivpoint: The two-hour marathon: what's the equivalent for women? *Journal of Applied Physiology*. May 15;118(10):1329, 2015.
66. **Hunter SK**, Joyner MJ and Jones AW. The two-hour marathon: what's the equivalent for women? *Journal of Applied Physiology*. May 15;118(10):1321-3, 2015.
65. Kuhnen HR, Rybar MM, Onushko T, Doyel R, **Hunter SK**, Schmit BD and Hyngstrom AS. The stroke-related effects on maximal dynamic hip flexor fatigability and functional implications. *Muscle Nerve*. 51(3):446-8, 2015. PMID: 25399720
64. Deaner RO, Carter RE, Joyner MJ, **Hunter SK**. Men are more likely than women to slow in the marathon. *Medicine and Science in Sports and Exercise*. 47(3):607-16, 2015. PMID: 24983344.
63. Lemley K, **Hunter SK** & Hoeger Bement MK. Conditioned pain modulation predicts exercise-induced hypoalgesia in healthy adults. *Medicine and Science in Sports and Exercise* 47(1):176-84, 2015. PMID: 24870571

2014

62. Plutz-Snyder L, Bloomfield S, Bemben D, **Hunter SK**, Smith SM, Templeton K. Effects of sex and gender on adaptation to space: musculoskeletal health. *Invited review Journal of Women's Health* Nov;23(11):963-6, 2014. PMID: PMC4235589.
61. Yoon T, Vanden Noven ML, Nielson KA, **Hunter SK**. Brain areas associated with force steadiness and intensity during isometric ankle dorsiflexion in men and women. *Experimental Brain Research* 232(10): 3133-3145, 2014. PMID: PMC4172577.
60. Vanden Noven M, Pereira HM, Yoon T, Stevens AA, Nielson KA, & **Hunter SK**. Motor variability during sustained contractions increases with cognitive demand in older adults *Frontiers in Aging Neuroscience* May, Volume 6, Article 97, 2014. PMID: PMC4033244.
59. Keller-Ross ML, Pereira H, Pruse J, Yoon T, Schlinder-Delap B, Nielson KA, & **Hunter SK**. Stressor-induced increase in muscle fatigability of young men and women is predicted by strength but not voluntary activation. *Journal of Applied Physiology* Apr;116(7):767-78, 2014. PMID: PMC3972745.
58. Rybar M, Walker E, Kuhnen HR, Ouellette D, **Hunter SK** & Hyngstrom AS. The stroke-related effects of hip flexion fatigue on over ground walking. *Gait and Posture* Apr;39(4):1103-8, 2014. PMID: PMC4007512.
57. **Hunter SK**. Sex differences in human fatigability: mechanisms and insight to physiological responses. (Invited Review) *Acta Physiologica*, 210(4), 768–789, 2014. PMID: PMC4111134.

56. Harmer AR, Ruell PA, **Hunter SK**, McKenna MJ, Thom JM, Chisholm DJ, Flack JR. Effects of type 1 diabetes, sprint training and sex on skeletal muscle sarcoplasmic reticulum Ca²⁺ uptake and Ca²⁺-ATPase activity. *Journal of Physiology* 592 (Pt 3):523-35, 2014. PMID: 24297852.
55. Keller-Ross ML, Schlinder-Delap B, Doyel R, Larsen G & **Hunter SK**. Muscle fatigability and control in men with posttraumatic stress disorder. *Medicine and Science in Sports and Exercise* Jul;46(7):1302-13, 2014. PMID: 24389520.
54. Hoeger Bement MK, Drewek B, & **Hunter SK**. Men report greater pain relief following sustained static contractions than women when matched for baseline pain. *Journal of Motor Behavior* 46(2):107-13, 2014. PMID: 24528132.
53. Hoeger Bement MK, Weyer A, Yoon T, **Hunter SK**. Corticomotor excitability during a noxious stimulus and following exercise in women with fibromyalgia. *Journal of Clinical Neurophysiology* Feb;31(1):94-8, 2014. PMID: 24492452.
52. Lemley K, Drewek B, & **Hunter SK** & Hoeger Bement MK. Pain relief following isometric exercise is not task-dependent in older men and women. *Medicine and Science in Sports and Exercise* Jan;46(1):185-91. 2014. PMID: 23793233.
51. Hyngstrom AS, Kuhnen HR, Kirking KM & **Hunter SK**. Functional implications of impaired control of submaximal hip flexion following stroke. *Muscle and Nerve* Feb;49(2):225-32, 2014.

2013

50. Senefeld J, Yoon T, Bement MH and **Hunter SK**. Fatigue and recovery from dynamic contractions in men and women differ for arm and leg muscles. *Muscle and Nerve* 48(3):436-9, 2013. PMID: PMC3951745.
49. **Hunter SK** and Stevens A. Sex differences in marathon running with advanced age: physiology or participation? *Medicine and Science in Sports and Exercise* Jan;45(1):148-56. 2013.
48. Yoon T, Schlinder-Delap B, & **Hunter SK**. Fatigability and recovery of arm muscles with advanced age for dynamic and isometric contractions. *Experimental Gerontology* 48(2):259-68, 2013. PMID: PMC3557758.

2012

47. Yoon T, Schlinder-Delap B, Keller ML, **Hunter SK**. Supraspinal fatigue impedes recovery from a low-intensity sustained contraction in old adults. *Journal of Applied Physiology* 112(5): 849-58, 2012. PMID: PMC3311661.
46. Hyngstrom AS, Onushko T, Heitz R, Rutkowski A, **Hunter SK**, & Schmit BD. Stroke-related neuromuscular fatigue of the hip flexors and functional implications. *American Journal of Physical Medicine & Rehabilitation* 91(1):33-42, 2012. PMID: PMC3940208.

2011

45. Keller ML, Pruse J, Yoon T, Schlinder-Delap B & Harkins A, **Hunter SK**. Supraspinal fatigue is similar in men and women for a low-force fatiguing contraction. *Medicine and Science in Sports and Exercise* 43 (10): 1873-1883, 2011.
44. **Hunter SK**. The Two-Hour Marathon: How Important is Age? *Journal of Applied Physiology*, 110(1):278-93, 2011.
43. Hoeger Bement MK, Weyer A, Hartley S, Drewek B, Harkins A, & **Hunter SK**. Pain perception after isometric exercise in women with fibromyalgia. *Archives of Physical Medicine and Rehabilitation*, 92(1):89-95, 2011.
42. **Hunter SK**, Stevens A, Magennis K, Skelton KW and Fauth M. Is there a sex difference in the age of elite marathon runners? *Medicine Science Sports and Exercise* 43(4):656-64, 2011.

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41. Hoeger Bement M, Weyer A, Keller M, Harkins A, and **Hunter SK**. Anxiety and stress can predict pain perception following a cognitive stressor. *Physiology and Behavior* 101: 87-92, 2010.
40. Griffith EE, Yoon T and **Hunter SK**. Aging and load compliance influence time to task failure for a submaximal fatiguing contraction with the lower leg. *Journal of Applied Physiology* 108(6): 1510-9, 2010.
39. **Hunter SK**. Response to task-specific sex differences in muscle fatigue: Is there a common underlying cause? *Exercise and Sports Science Reviews* January, 37, 2010.

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37. Yoon T, Hawe R, and **Hunter SK**. Variation in limb support influences the time to task failure for a postural contraction. *Journal of Motor Behavior* 41(5): 393-5, 2009.
36. **Hunter SK**. Sex differences in mechanisms of task-specific muscle fatigue. *Exercise and Sports Science Reviews* Jul; 37(3):113-22, 2009.
35. Hoeger Bement M, Rasiarinos R, DiCapo R, Lewis A, Keller ML, Harkins A, and **Hunter SK**. Role of the menstrual cycle phase in pain perception before and after isometric contractions. *European Journal of Applied Physiology* 106(1):105-112, 2009.
34. Hoeger Bement MK, Weyer A, Hartley S, Yoon T, and **Hunter SK**. Exercise attenuates pain-induced corticomotor excitability, *Neuroscience Letters* 452: 209-213, 2009.
33. **Hunter SK**, Griffith EE, Schlachter KM, and Kufahl TD. Sex differences in time to task failure and blood flow for an intermittent isometric fatiguing contraction. *Muscle and Nerve* 39(1): 42-53, 2009.

2008

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31. **Hunter SK**, Butler JE, Todd G, Gandevia SC and Taylor JL. Slowed recovery of supraspinal fatigue in old adults after fatiguing maximal contractions. *Journal of Applied Physiology*, 105(4):1199-1209, 2008.
30. Harmer AR, McKenna MJ, Chisholm DJ, **Hunter SK**, Ruell PA, Naylor JM, Maxwell LJ, Flack JR. Sprint training increases muscle oxidative metabolism during high-intensity exercise in patients with type 1 diabetes mellitus. *Diabetes Care*. 31(11), 2097-2102, 2008.
29. Yoon T, Schlinder-Delap B, Griffith EE & **Hunter SK**. Age-related muscle fatigue after a low-force fatiguing contraction is explained by central fatigue. *Muscle and Nerve*, 37(4): 457-466, 2008.
28. **Hunter SK**, Yoon T, Farinella JM, Griffith EE, Ng AV. Time to task failure and muscle activation vary with load type for a submaximal fatiguing contraction with the lower leg. *Journal of Applied Physiology*, 105: 463–472, 2008.

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27. Yoon T, Schlinder-DeLap B, Griffith EE & **Hunter SK**. Mechanisms of fatigue differ after low- and high- force fatiguing contractions in men and women. *Muscle and Nerve*, 36:512-524, 2007.

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2011

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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. Hyingstrom 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.
47. Yoon T, Keller M, Verber MD, Skelton K, Nielson KA and **Hunter SK**. Brain activation during isometric fatiguing contractions and increased cognitive demand. *Society of Neuroscience Abstracts* 36, #83.7, 2010. *Society of Neuroscience Annual Meeting*, San Diego, CA. 11.13-17.2010.
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

43. Hyingstrom AS, Onushko TL, Heitz R, Rutowski AA, **Hunter SK** and, Schmit BD. The effect of stroke-related changes in hip flexor fatigability on motor output. *Proceedings of the Society of Neural Control of Movement Annual Meeting*, Naples, FL. 04.20-25.2010.

42. Yoon T, Fiandt 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

38. Vanden Noven ML, Yoon T, Verber MD, Nielson KA and **Hunter SK**. Aging alters brain activation during submaximal contractions with the lower leg *Society of Neuroscience Abstracts* 35, #863.6, 2009. *Society of Neuroscience Annual Meeting*, Chicago, IL. 10.17-21.2009.
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.
36. Hyngstrom AS, Onushko TL, Heitz R, Rutowski AA, **Hunter SK** and, Schmit BD. Stroke impairs strength and control of motor output during sub-maximal fatiguing contractions. *Society of Neuroscience Abstracts* 35, #568.6, 2009. *Society of Neuroscience Annual Meeting*, Chicago, IL. 10.17-21.2009.
35. Hoeger Bement MK, Weyer AD, Yoon T, **Hunter SK**. Corticomotor excitability and pain are not influenced by fatiguing exercise in women with fibromyalgia, *American Physical Therapy Association, Section on Research Retreat*, Monterey, CA. 08.09-13.2009.
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.
33. Pruse JM, Keller ML, Yoon T, Schlinder-Delap B & **Hunter SK**. Supraspinal fatigue after a low- force fatiguing contraction in men and women. *Medicine and Science in Sports and Exercise* 41(5), S260; 2009. *American College of Sports Medicine National Annual Meeting*, Seattle, WA. 05.27-30.2009.
32. **Hunter SK**, Vanden Noven ML, Yoon T, Verber MD, Fauth M, Skelton, KW, Neilson KA. Sex differences in brain activation during submaximal contractions of the lower extremity. *Medicine and Science in Sports and Exercise* 41(5), S520; 2009. *American College of Sports Medicine National Annual Meeting*, Seattle, WA. 05.27-30.2009.
31. Yoon T, Keller ML, Schlinder-Delap B & **Hunter SK**. Age and sex differences in muscle fatigability maintaining the same absolute force. *Medicine and Science in Sports and Exercise* 41(5), S97; 2009. *American College of Sports Medicine National Annual Meeting*, Seattle, WA. 05.27-30.2009.
30. Vanden Noven ML, Yoon T, Verber MD, Fauth M, Skelton, KW, Neilson KA & **Hunter SK**. Gain of visual feedback and brain activation during submaximal contractions of the lower extremity. *Medicine and Science in Sports and Exercise* 41(5), S521; 2009. *American College of Sports Medicine National Annual Meeting*, Seattle, WA. 05.27-30.2009.
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 GRANTS | PRINCIPAL INVESTIGATOR | **ACTIVE**

1. **National Institute of Health R01 [R01 AG048262-06]** 09.2020 – 08.2025
 Title: *Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise*.
 Direct and Indirect Costs: \$3.0 million
 Role: PI (Multiple PI with Christopher Sundberg and Robert Fitts)
3. **Clinical and Translational Science Institute of Southeast WI** 04.2020 - 04.2021
 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)

EXTRAMURAL GRANTS | CO-INVESTIGATOR | **ACTIVE**

4. **National Institute of Health, NICHD R01 [R01HD099340]** 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

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

National Institute of Health R01

Title: *Mechanisms of Fatigability in People with Diabetes*

Direct Costs: \$2.5 million

Resubmission 06.2020

B. COMPLETED GRANTS**EXTRAMURAL GRANTS | PRINCIPAL INVESTIGATOR | COMPLETED**

1. **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 and Indirect Costs: \$2.8 million
Direct: \$2.1 million
Role: PI (Multiple PI with Robert Fitts)
2. **University of South Australia, Australia** 03.2018 - 05.2018
Title: *Visiting Distinguished Thought Leader Scholarship*
Direct: \$11,000
Role: PI
3. **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
Role: PI
4. **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)
5. **National Institute of Aging R15** [R15AG039697] 10.2011 - 09.2014
Title: *Neuromuscular Fatigue: Sex and Age Differences.*
Direct Costs: \$273,000
Role: PI
6. **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
7. **National Institute of Aging R15** [1R15AG30730] 09.2008 -10.2011
Title: *Neuromuscular Fatigue in Old Adults.*
Direct costs: \$150,000
Role: PI
8. **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
9. **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
10. **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

11. **National Institute of Occupational, Safety and Health Pilot Training Grant** 07.2007 - 06.2008
University of Illinois Chicago
 Title: *The impact of stress on neuromuscular fatiguing contraction in men and women.*
 Direct costs: \$16,000
 Role: PI
12. **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
 Role: PI
13. **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
14. **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) | PRINCIPAL INVESTIGATOR | COMPLETED

1. **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 & J. Senefeld)
 Direct and Indirect Costs: \$15,000
 Role: Co-I
2. **Way Klinger Research Fellowship at Marquette University** 07.2014 - 06.2017
 Title: *Neuromuscular Fatigue in People with Type 2 Diabetes*
 Direct Costs: \$150,000
 Role: PI
3. **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
4. **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
5. **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
6. **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
7. **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 AND MENTOR | COMPLETED

1. **National Institute of Health R15 [R15HD090265]** 09.2016 - 03.2019
 Title: *Exercise Specificity and Fibromyalgia Pain* (PI: M. Bement)
 Direct Costs: \$300,000

Direct and Indirect Costs: \$446,152

Role: Co-I

2. **National Institute of Health R15 [1R15NS084130]** (PI: Hyingstrom A) 04.2014 - 03.2017
Title: *Neural Mechanisms of Neuromuscular Fatigue Post Stroke.*
Direct Costs: \$300,000
Role: Co-investigator
3. **National Institute of Health R21 [R21NS088818]** (PI: Hyingstrom A) 07.2014 - 06.2017
Title: *Impaired Blood Flow and Neuromuscular Fatigue Post Stroke.*
Direct Costs: \$295,000
Role: Co-investigator
4. **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
5. **Clinical & Translational Science Institute of South East WI** 09.2011 - 08.2014
Mentored K12 Award to Dr Allison Hyingstrom (PI: Hyingstrom A)
Title: *Mechanisms of Neuromuscular Fatigue and Leg Function Post Stroke.*
Direct Costs: \$386,930
Role: Co-Mentor
6. **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-Investigator
7. **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-Investigator
8. **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-Investigator
9. **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-Investigator
9. **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: \$150,000
Role: Co-PI and Mentor
11. **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-Investigator and Mentor
12. **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

13. **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-Investigator
14. **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-Investigator

V. SESSION CHAIR AT PROFESSIONAL MEETINGS

- American College of Sports Medicine National Annual Meeting, Boston, MA 2016
Chair of Thematic Poster Session: "Fatigue"
- European Congress of Sports Science, Amsterdam, Netherlands 2014
Chair of three sessions
- International Society for Electromyography and Kinesiology, Brisbane, Australia. 2012
Chair of poster session titled "Muscle Fatigue"
- American College of Sports Medicine National Annual Meeting, Denver, CO 2006
Chair of 2 - hour Thematic Poster Session: "Skeletal Muscle Fatigue"
- American College of Sports Medicine National Annual Meeting, Denver, CO 2006
Co-ordinator and Chair of 2- hour Symposium: "Neural Mechanisms Contributing to Muscle Fatigue"
- American College of Sports Medicine National Annual Meeting, Indianapolis, IN 2004
Chair of a 2- hour Symposium: "Muscle Fatigue"
- American College of Sports Medicine National Annual Meeting, St. Louis, MO 2002
Co-ordinator and Chair of 2- hour Symposium: "Sex Differences in Fatigue and Performance"
- American College of Sports Medicine National Annual Meeting, Indianapolis, IN 2000
Chair of 2- hour Symposium: "Motor Control"

VI. PRESENTATIONS (ORAL)

A. INTERNATIONAL PRESENTATIONS (OUTSIDE THE USA)

1. **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"
2. **University of South Australia, Adelaide, Australia** 04.18. 2018
 Sansom Institute Seminar: *"Age Differences in Performance Fatigability"*
3. **Alliance for Research in Exercise, Nutrition and Activity, University of South Australia, Adelaide, Australia** 04.19. 2018
 ARENA: *"Sex Differences in Performance Fatigability"*
4. **Helping Hand Aged Care Facility, North Adelaide, Australia** 04.13. 2018
"Ageing and Fatigue: The Protective Effects of Exercise"
5. **International Congress of the Association of Physical Activities and Sport Researchers, Dijon, France** 10.31.2017
 Invited Speaker: *"Sex Differences in Performance Fatigability"*
6. **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"
3. **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"

4. **Physiology 2015** Cardiff, Wales 07.2015
[Invited Speaker at the Annual conference of the Society of Physiology, London]
"Sex Differences in Skeletal Muscle Fatigue"
5. **European Congress of Sports Science Plenary 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?"*
6. **Canadian Society of Exercise Physiology National Meeting Symposium.** Quebec City, Canada 10.2011
"Expanding the Tool Box to Understand Neuromuscular Fatigue: An Integrative Approach"
7. **Prince of Wales Medical Research Institute,** Sydney, Australia 07.2004
Sensorimotor Series. *"Muscle Fatigue is Dependent on the Task"*
8. **Prince of Wales Medical Research Institute,** Sydney, Australia 08.2004
Sensorimotor Series. *"Sex Differences in Muscle Fatigue"*

B. NATIONAL PRESENTATIONS (IN THE USA)

1. **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>
2. **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"*
3. **University of Utah,** Salt Lake City, UT 03.29.2019
Seminar: *"Sex Differences in Fatigability: Why It Matters!"*
4. **Shirley Ryan Abilities Lab,** Chicago, IL 01.23.2019
Ground Round Seminar *"Exercise-Related Fatigue with Aging!"*
5. **Colorado State University,** Fort Collins, CO 10.19.2018
Colloquium: *"Exercise-Related Fatigue with Aging"*
6. **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?"
7. **Organization for the Study of Sex Differences Annual Meeting,** Philadelphia, PA 05.25.2016
Symposium: *"Sex Differences in Neuromuscular Function and Fatigue?"*
8. **Ball State University,** Human Performance Laboratory, Muncie, IN 08.27.2015
Seminar Series: *"Sex Differences in Muscle Fatigue: Does it Really Matter?"*
9. **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"*
10. **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"
11. **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?"
12. **University of Oregon** Department of Human Physiology Seminar Series, Eugene, OR 04.09.2014
"Fatigability of Human Muscles: Sex Matters"
13. **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"*
14. **American College of Sports Medicine Annual Meeting,** Indianapolis, IN 05.31.2013
Symposium: *"Neural Contributions to Muscle Fatigue: Task Matters"*
15. **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"

16. **University of Florida**, Department of Health and Human Performance Colloquium, Gainesville, FL 03.15.2010
"Task Dependence of Muscle Fatigue and Aging"
17. **University of Chicago, Illinois**, Chicago School of Public Health 04.09.2008
"Cognitive Stress, Mental Attentiveness and Muscle Fatigue"
18. **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"
19. **Society of the Neural Control of Movement Society**, Waikoloa Beach, HI 05.02.2009
"Central Fatigue: Task Dependence of Muscle Fatigue"
20. **American College of Sports Medicine Annual Meeting**, Indianapolis, IN 05.30.2008
"Neuromuscular Fatigue and Aging Symposium: Consensus and Controversy: Subject Characteristics"
21. **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"
22. **American College of Sports Medicine Annual Meeting**, Denver, CO 05.31.2006
Neural Mechanisms Contributing to Muscle Fatigue Symposium: *"Muscle Fatigue and Aging"*
23. **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. **Medical College of Wisconsin**, CTSI Clinical Scholars Symposium 11.12.2019
'Building a Research Career'
2. **Medical College of Wisconsin**, 31st MCW Sports Medicine Symposium 03.14.2019
'Physiology of the Aging Adult and Athlete'
3. **Veterans Affairs Medical Center Milwaukee**, Dept of Geriatrics, Milwaukee, WI 03.31.2017
Fatigability and Aging: Mechanisms and the Protective Effects of Exercise
4. **University of Wisconsin, Whitewater** 10.30.2016
Sex Differences in Exercise Performance: Is it all about physiological differences?
5. **Medical College of Wisconsin**, Dept of Gynaecology and Obstetrics, Milwaukee, WI 01.20.2016
Neuromuscular Function in Women Postpartum
6. **Marquette University Board of Trustees, Marquette University**, Milwaukee, WI 02.24.2016
Research in the Athletic Performance Research Center
7. **Marquette University Advancement, Marquette University**, Milwaukee, WI 02.04.2016
Research in the Athletic Performance Research Center
8. **Wisconsin's Women's Health Foundation**, Annual Research Breakfast, Janesville, WI 1.30.2015
The Impact of Research in Women's Health
9. **Marquette Alumni Annual Meeting, Marquette University**, Milwaukee, WI 01.24.2015
Human Performance and Fatigability
10. **CTRH Research Seminar Series, Marquette University**, Milwaukee, WI 12.04.2014
Sex Differences in the Marathon: The comparable 2-hour Marathon for Women
11. **St Johns Retirement Community on the Lake**, Milwaukee, WI 11.01.2013
Aging and Neuromuscular Function: Can we do anything about it?
12. **Marquette University Manresa Faculty Development Seminar & Round Table** 11.2012
Secrets of a Faculty Life Work Balance

13. **CTRH Research Seminar Series, Marquette University**, Milwaukee, WI 11.01.2012
Neuromuscular Fatigue: Does it Matter?
14. **Marquette University**, Milwaukee, WI 06.21.2012
College of Health Sciences Undergraduate Summer Research Program Series: *Age Differences and Neuromuscular Fatigue*.
15. **University of Wisconsin - Milwaukee**, WI 04.09.2012
Seminar in the Dept of Kinesiology and Human Movement Sciences: *Sex Differences in Neuromuscular Fatigue*
16. **CTRH Research Seminar Series, Marquette University**, Milwaukee, WI 12.01.2011
Neuromuscular Fatigue: An Integrative Approach
17. **Marquette College of Health Sciences Alumni & Advancement Event**, Washington DC 11.2011
The Aging Brain: Can We Turn Back the Clock?
18. **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*"
19. **Marquette University**, Milwaukee, WI 06.23.2010
College of Health Sciences Undergraduate Summer Research Program Series: *Aging, Sex Differences and Muscle Fatigue*
20. **Marquette University**, Milwaukee, WI 06.2009
College of Health Sciences Undergraduate Summer Research Program Series. *Aging and Muscle Fatigue*
21. **Marquette University**, Milwaukee, WI 07.08.2008
College of Health Sciences Undergraduate Summer Research Program Series. *Muscle Fatigue in Old Adults*
22. **Marquette University**, Milwaukee, WI 08.2007
Physical Therapy Department Meeting of the Minds Research Seminar: *Neuromuscular Control of Fatiguing Tasks*
23. **Medical College of Wisconsin**, Milwaukee, WI 07.20.2007
Physical Medicine & Rehabilitation Research Ground Rounds: *Aging and Neuromuscular Control of Fatiguing Tasks*
24. **Marquette University**, Milwaukee, WI 06.12.2006
College of Health Sciences Undergraduate Summer Research Program Series: *Mechanisms for Age Differences in Muscle Fatigue*
25. **University of Wisconsin – Milwaukee**, WI 05.09. 2006
Seminar in Human Movement Sciences: *Muscle fatigue in Older Adults*
26. **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*
27. **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"*
11. **Australian Conference of Science and Medicine in Sport, Canberra, Australia** 10.1996
"Effect of High Resistance Strength Training on Functional Capacity of Elderly Women"
12. **Sports Medicine Australia's Women's in Sport Meeting, Newcastle, Australia** 06.1996
"The Exercise and Sports Scientist"
13. **Australian Conference of Science and Medicine in Sport. Hobart, Australia** 10.1995
Muscle Function and Size with Age"
14. **National Annual Scientific Conference of the Australian Sports Medicine Federation, Brisbane, Australia** 10.1994
"Isometric Muscle Function and Reaction Times as a Function of Age"
15. **Sydney's Royal Women's Hospital, Sydney, Australia** 11.1994
Colloquium Series. *"Oestrogen Deficiency and Ageing Skeletal Muscle Function in Post-menopausal Women"*
16. **National Annual Scientific Conference of the Australian Sports Medicine Federation, Melbourne, Australia** 10.1993
"Muscle Function Tests"

VII. TEACHING

A. COURSE DIRECTOR | GRADUATE

1. **Applied and Rehabilitative Systems Physiology (CTRH 6001, 3 credits)**
Fall 2011, 2012, 2013, 2014, 2015, 2016, 2017
2. **Fatigue in Health and Disease (CTRH 6450, 3 credits)**
Spring 2014
3. **Techniques in the Neural Control of Movement (CTRH 6931, 3 credits)**
Spring 2015 and 2017

B. COURSE DIRECTOR | UNDERGRADUATE

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

C. OTHER MAJOR TEACHING RESPONSIBILITIES

1. **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)	
	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
2.	Exercise Science Practicum I (EXPH 3986, 2 credits) research practicum	
	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 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 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)**
8. **Readings and Research in CTRH Graduate Program (CTRH 6958)**
Fall 2020: 4 students
Fall 2019: 4 students
Fall 2018: 4 students
Fall 2017: 1 student Hoon K.
Fall 2016: 3 students Sara L, Delgadillo J & Beradi, G.
Fall 2015: 2 students Kuplic, A. Awali, A
Fall 2014: 1 student Alsouhibani, A.
Fall 2013: 1 student Sundberg C.
Fall 2012: 3 students Deering R, Malloy P & Senefeld J.
Fall 2011: 2 students Stolzman S & Berrios-Barillas R

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, 2011-2019.
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 ASSISTANT PROFESSOR MENTEES

1. Ranjana Mehta, PhD. (Texas A&M ADVANCE Scholars Program) 2015 – present
Assistant Professor in Environmental and Occupational Health, School of Public Health and Industrial and Systems Engineering, College of Engineering, Texas A&M University.

- Ashleigh Smith, PhD. 2016 – present
Senior Lecturer, University of South Australia
Visited in April 2016 (4 weeks) and November 2016 (2 weeks) with ongoing collaboration.

CURRENT POST-DOCTORAL LEVEL | MARQUETTE UNIVERSITY NEUROMUSCULAR CONTROL LAB (PRIMARY ADVISOR)

- Timothy Fulton July 2019 - present
"Fatigability with Aging: Protective Effects of Exercise"

VIII. DISSERTATION AND THESIS COMMITTEES

A. CURRENT MENTOR | ADVISOR | COMMITTEE MEMBER

DOCTORAL LEVEL | MARQUETTE UNIVERSITY NEUROMUSCULAR CONTROL LAB (PRIMARY ADVISOR)

- Blaine Arney (EXSR program) August 2019 - present
- Lauren Sara (CTRH program) August 2016 – present
"Muscle Function and Fatigability in people with Achilles Tendinopathy"

DOCTORAL LEVEL | MARQUETTE UNIVERSITY (COMMITTEE MEMBER)

- Abdulaziz Awali (CTRH program) 2017 - present
"Influence of Experimental Pain Sensitivity and Cardiovascular Autonomic Function on Exercise-Induced Hypoalgesia"
- Saad Alqahtani (CTRH program) 2018 - present
"Stroke, ischemia and fatigue"
- Giovanni Berardi (CTRH program) 2016 - present
"Pain in People with Fibromyalgia Exercise Induced Analgesia"

MASTERS LEVEL | MARQUETTE UNIVERSITY (PRIMARY ADVISOR)

David Wrucke (incoming ADP student)

UNDERGRADUATE | MARQUETTE UNIVERSITY (PRIMARY)

- Meggie Hart Fall 2018 - present
Karis Yang Fall 2017 - present
Michael Hendrickson Fall 2019 – present
Rachel Beilfuss Fall 2018 - present
Gretchen Zirgaitis (honors) Spring 2020 – present

B. PREVIOUS MENTOR | ADVISOR

POST-DOCTORAL LEVEL | MARQUETTE UNIVERSITY NEURAL CONTROL LAB (PRIMARY ADVISOR)

- Minhyuk Kwon, PhD 06.2016 – 08.2019
Current Position: Assistant Professor (08.2019 – present)
California State Polytechnic University-Pomona
- Jonathon Senefeld, PhD 05.2018 – 05.2019
Current Position: Postdoctoral Research Associate (06.2019 – present)
Mayo Clinic, Rochester, MN
- Vianney Rozand, PhD 10.2015 – 10.2016
Current Position: Assistant Professor (09.2017 – present)
Jean Monnet University, (University of Lyon), France
- Hamidollah Hassanlouei, PhD 10.2014 – 10.2016
Current Position: Lecturer (2016-present)
Tehran University, Tehran, Iran

5. 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 NEURAL CONTROL LAB (PRIMARY ADVISOR)

1. Jonathon Senefeld (CTRH program, Marquette University) PhD, 07.2018
"Mechanisms of Fatigability in People with Type 2 Diabetes and Prediabetes"
Current Position: Postdoctoral Fellowship, Mayo Clinic (06-2019 - present)
2. 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)
3. Rita Deering (CTRH program, Marquette University) PhD, 12.2017
"Neuromuscular Function in Women after Pregnancy"
Current Position: Postdoctoral Fellowship: Advanced Women's Health Postdoctoral Fellowship at the University of Wisconsin-Madison and VA (July 1, 2018 – present)
Previous Position: Concordia University, WI - Part Time Teaching
4. 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 (Aug, 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
5. Marnie Vanden Noven (Interdisciplinary, Marquette University) PhD, 05.2014
"Aging and Neuromuscular Mechanisms of Muscle Fatigue".
Current Position: Associate Professor, Belmont University, TN
6. Manda Keller (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. Ali Alsouhibani (CTRH program) PhD, 12.2019
"Exercise induced analgesia"
2. Sheri Bunyan (CTRH program) PhD, 09.2019
"Neuromuscular Fatigue in people with Multiple Sclerosis"
3. Spencer Murphy (Biomedical Engineering) PhD, 10.2018
"Mechanisms of Impaired Motor Unit Firing Behavior of the Vastus Lateralis after Stroke"
4. Reivian Berrios Barillas (CTRH) PhD, 12.2015
"Reflex Gain Effects on Force Regulation and its Clinical Implications"
5. Kathryn Lemley (Interdisciplinary) PhD, 05.2014
"Mechanisms of Isometric Exercise-Induced Hypoalgesia in Young and Old Men and Women"
2. Dominic Nathan (Biomedical Engineering) PhD, 12.2010
"Development of a Cortical Reach-to-Grasp Model for Feed Forward Neuroprosthesis"
3. Megan Conrad (Biomedical Engineering) PhD, 05.2009
"Effects of distal sensory manipulations on arm movements in post-stroke hemiparesis"
4. 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)

- | | |
|-----------------------------------|---------|
| 1. Kevin Ryan (CTRH program) | 05.2019 |
| 2. Jose Delgadillo (CTRH program) | 05.2019 |
| 3. Andrew Kuplic (CTRH program) | 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)

- | | |
|------------------------|------------------|
| 1. David Wrucke | 2020-present |
| 2. Gretchen Zirgaitis | 2020-present |
| 3. Michael Hendrickson | 2019-present |
| 4. Rachel Beilfuss | 2019-present |
| 5. Meggie Rose Hart | 2019-present |
| 6. Rachel Weeks | Fall 2019 |
| 7. Karis Yang | 2017-present |
| 8. Monica Geiser | 2017-present |
| 9. Cassandra Goodrich | 2018-2019 |
| 10. Sarah D'Astice | 2016 - 2019 |
| 11. Savannah Hickok | 2017-2019 |
| 12. Elizabeth Clements | 2017-2018 |
| 13. Kevin Ryan | 2017- 2018 |
| 14. Mitch Adam | 2016-2018 |
| 15. Jordan Lemens | 2016 |
| 16. Tate Pashibin | 2014-2016 |
| 17. Christine Eble | 2014-2016 |
| 18. Andrew Kuplic | 2014-2015 |
| 19. Courtney Linzmeier | 2014-2015 |
| 20. Tyler Esser | 2014 - 2015 |
| 21. Megan Boyle | Fall 2013 - 2014 |
| 22. Isaac Pierre | Fall 2011 -2014 |
| 23. Caitlin Fortuna | Fall 2012 -2014 |

24. Joseph Bartoletti	Fall 2012-2014
25. Ethan Jedziniak	Spring 2014
26. Becky Beroussa	2012- 2014
27. Jonathon Senefeld	2010-2013
28. Anna Buzzard	2013
29. Kelleen Boehlke	Summer 2013
30. Vincent Spears	2011-2013
31. Joseph Fleming	2012-2013
32. Alyssa Stevens	2009-2013
33. Nicholas Elliot	2011-2013
34. Ryan Doyel	2009-2012
35. Kelsey Helland	Spring 2012
36. Katalin Skelton	2008-2011
37. Melanie Hoffman	Summer 2011
38. Peter Kuhn	2010-2011
39. Jaclyn Pruse	2007-2011
40. Matthew Coon	2009
41. Claire Fiandt	2009
42. McKenzie Fauth	2008-2009
43. Joseph Farinella	2006-2008
44. Erin Griffith	2004-2008
45. Sarah Bly	2007
46. Rachel Hawe	Summer 2007
47. Kristine Schlachter	2004-2006
48. Richard Daignault	2006
49. Scott Wendall	2006
50. Jane Hennessy	2006
51. Charnon Barnes	2004-2005
52. James McGuire	2005
53. Victor Stanton	2005
54. Timothy Kufahl	2005
55. Tiffany Trott	2004-2005
56. Bradley Ritland	2004
57. Jennie Sanders	2004

IX. 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. Symposium Co-ordinator and organizer of two 2-hour symposium at the ACSM national meetings	2001 and 2006

3. Editorial Services for Journals

Associate Editor: *Exercise and Sports Science Reviews* 01.2015 - present
 Associate Editor: *Medicine and Science in Sports & Exercise* 07.2013 - present
 Editorial Board: '*Journal of Applied Physiology*' 2007 - 2018
 Editorial Board: '*Journal of Motor Behavior*' 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
2004	13	2007	21	2010	18	2013	31	2016	41	2019	26
2005	22	2008	23	2011	26	2014	32	2017	30		

C. GRANT REVIEWER

- University of Wisconsin, Milwaukee: Research Growth Initiative (\$150K) 2009
- New Zealand Marsden Fund Fast-Start Grant for New Investigators and High Impact Research, \$100K 2009
- Canadian National Science and Engineering Research Council (NSERC Discovery Grant, \$250K) 2008 - 2012
- Canadian Michael Smith Foundation (Postdoctoral research scholarship award) 2011
- CTSI SE Wisconsin Pilot Award Program 2013-2016
- NIH grant reviewer for R15 Neurosciences study section (ZRG1 MDCN-R) 2013-present
- American College of Sports Medicine Grant Review Committee 2017-2020
- Australian National Health and Medical Research Council (NHMRC) grant. 2018

D. EXTERNAL CONSULTATION SERVICE

Expert Panellist & Research Consultant, Halmstad University, Sweden 08.26 – 08.29.2013
 Evaluation and recommendations of Biological and Environmental Systems Research Environment

X. UNIVERSITY SERVICE

A. UNIVERSITY SERVICE

- Marquette COVID-19 Research Initiative Chair 03.2020 - present
- Committee on Research 08.2018 - present
- Associate Dean of Research Council member 02.2015 - present
- Academic Misconduct Investigation Committee Spring-Fall 2019
- Search Committee for the Title IX Director at Marquette Fall 2018

6. Forward Thinking Poster Session and Colloquy Presentation Judge 11.28.2017
7. Search Committee for the Director of University Advancement (Faculty Representative) August -Sept 2017
8. Athletic Performance Research Center Leadership Team (Team Lead) Fall 2016
9. Pere Marquette Dinner Emcee 05.30.2015
10. Innovation Council Review Board 11.2014 – 05.2015
11. Presidential Inauguration Ceremony Steering Committee Member 05-09.2014
12. Marquette University Strategic Planning Committee 08.2012 - 05.2013
13. University Academic Senate Executive Committee 08.2012 - 05.2013
14. University Academic Senate: CHS senator (representative) Spring 2011 - 05.2013
15. Gender Resources Center Faculty-in Residence Search Committee 02 - 04.2012
16. Mentor in the Faculty Mentoring Program: Mentor in Dept. of Speech Therapy 2010 - 2012
17. Committee on Equity 2008 - 2010
18. 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
19. Committee on Faculty Women's sub-committee (regular member) 2007
20. Manresa First Year Reading Program Discussion Leader 08.2006

B. COLLEGE SERVICE

1. College of Health Sciences Promotion and Tenure Committee 2011 – 2016, 2019
Physical Therapy and Exercise Science Representative
2. 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
3. College of Health Science Advancement Presentation to Alumni 11.2011
Washington DC. Presenter of research
4. College of Health Science Advancement and Bellin Health Care Presentation to Alumni 05.2011
Green Bay, WI. Presenter of research
5. College of Health Science Advancement Emersion Day 05.2008
Marquette University. Presenter of research
6. Integrative Neuroscience Research Center 11.2004 / 11.2006
Marquette University. Host and organizer of guest speakers

C. PROGRAM | DEPARTMENTAL SERVICE

1. Graduate student Advising 2004- present
2. Undergraduate Student Advising (each semester): 15-48 students/semester (48 students in Fall 2017) 2003 - 2018
3. Faculty Search Committee: Tenure-track Faculty, Department of Physical Therapy Summer 2016- Spring 2017
4. Faculty Search Committee: Tenure-track Faculty, Program in Exercise Science Spring 2011
5. Co-ordinator of Graduate Research Summer Journal Club 06 - 08.2010
6. Co-ordinator of Meeting of the Minds Departmental Research Seminar 05.2007 - 2010
7. Exercise Science presentation to incoming freshman students and parents 02.2007
8. Faculty Search Committee: Tenure-track Faculty, Dept. of Physical Therapy 2006 - 2007
9. Faculty Graduation Speech: Exercise Science Program, Dept. of Physical Therapy 05.2006

10. **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
11. **Faculty Search Committee: Tenure-track Faculty, Dept. of Physical Therapy** 2004
12. **Faculty Search Committee: Non-tenure (clinical Faculty, Dept. of Physical Therapy)** 2004

D. COMMUNITY SERVICE

1. **Board Member (Elder) on the Council of Elders, Elmbrook Church, Brookfield** January 2015 - present
2. **Mentor and Research Supervisor for High School Student** Summer / Fall 2011 / Spring 2012
Divine Holy Savior Angels High School

XI. AWARDS AND HONORS

1. **Outstanding Researcher, College of Health Sciences, Marquette University** 2020
2. **Visiting Distinguished Thought Leader Award: University of South Australia, Australia** 2018
\$11,000 awarded by the University of South Australia, to work with faculty and researchers in the Health Sciences and Pharmacy and Medical Sciences to enhance research.
3. **Nora Finnigan Werra Faculty Achievement Award from the Association of Marquette University Women Alumni** 04.2016
4. **'All Star Faculty' Recognition: Marquette University Men's Basketball Game, Bradley Center** 01.20.2016
5. **University Excellence in Teaching Award, Marquette University** 05.2014
6. **Way Klingler Research in Science Fellowship, Marquette University** 04.2014
7. **Appointed Associate Editor of the Journal titled 'Medicine in Science, Sports and Exercise'** 2014
8. **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
9. **Edward Carroll Teacher of the Year Award, College of Health Sciences, Marquette University** 2013
10. **Dr. Judith Stitt Women's Faculty Scholarship: Wisconsin Women's Health Foundation** 2008
11. **Way Klingler Young Scholar Award, Marquette University** 2007
12. **Fellow of the American College of Sports Medicine (FACSM)** 2005
13. **American Physiological Society Research Career Enhancement Award** 2004
14. **American College of Sports Medicine Research Endowment Award** 2002
15. **Research Excellence, Wendy Eye Award, Best Paper on Women in Sport** 1998
Australian Conference of Science and Medicine in Sport, Adelaide, Australia
16. **Best Young Scientist Finalist** 1996
The American Physiological Society Conference, Vancouver, Canada
17. **University of Sydney Postgraduate Research Award Scholarship, Australia** 1994 - 1996
18. **Young Investigator of the Year Commendation (Basic Science)** 1995
Australian Conference of Science and Medicine in Sport. Hobart, Australia

XII. INTERVIEWS AND CITATIONS IN POPULAR MEDIA

1. **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>
2. 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
3. **You are Marquette**. 'Surviving COVID-19' 08.31.2020
<https://stories.marquette.edu/surviving-covid-19-e6b782734aa0>
4. **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>
5. **Discover Magazine** '5 Exercise Myths Debunked by Science' 06.13.2020
<https://www.discovermagazine.com/health/5-exercise-myths-debunked-by-science>
6. **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
7. **Swedish TV documentary** (Swedish national TV) 05.10.2020
[Bästa träningen - 2. "Utan smärta finns ingen njutning heller"](#)
(starting at minute 37)
8. **Federally funded research programs improving human health and safety** 09.17.2019
[Wisconsin Business](#)
9. **Elemental** 'What Makes Women Strong?' 06.10.2019
By Starre Julia Vartan
<https://elemental.medium.com/what-makes-women-strong-2c927bf286ef>
10. **The Walrus**, 'When Male Runners Lose to Women' 05.02.2019
By Leyland Cecco
<https://thewalrus.ca/when-male-runners-lose-to-women/>
11. **WUWM National Public Radio**, Lake Effect Program. 'Fit For You: Cold Weather Exercise Tips' 01.05.2019
Interview with Audrey Nowakowski
<https://www.wuwm.com/post/fit-you-cold-weather-exercise-tips#stream/0>
12. **WUWM National Public Radio**, Lake Effect Program. 'Fit For You: Men vs. Women in Endurance Sports' 07.12.2017
Interview with Audrey Nowakowski
<http://wuwm.com/post/fit-you-men-vs-women-endurance-sports#stream/0>
13. **Motor Impairment Blog, Neuroscience Research Australia**. 'Why does motor performance decline with aging?' 05.04.2017
By Sandra Hunter, <https://motorimpairment.neura.edu.au/motor-performance-decline-aging/>
14. **Outside Magazine**. "Has the 2-Hour Marathon Already Been Broken?" By: Samantha Larson 04.06.2017
<https://www.outsideonline.com/2167951/womens-two-hour-marathon-has-already-been-broken>
15. **New York Magazine** 'When It Comes to Fitness, Women Have One Pretty Surprising Advantage' By Susan Rinkunas 12.14.2016
<http://nymag.com/thecut/2016/12/womens-muscles-take-longer-to-fatigue-than-mens.html>
16. **Health.com** 'Here's One Way Women Are Fitter Than Men, According to Science' By Amanda MacMillan 12.13.2016
<http://www.health.com/fitness/women-outperform-men-fitness-fatigue>
17. **Newswise** 'Gender Matters When it Comes to Exercise Fatigue' 12.02.2016
<http://newswise.com/articles/gender-differences-matter-when-it-comes-to-exercise-fatigue>
18. **WUWM National Public Radio**, Lake Effect Program. 'New Study Seeks to Change Postpartum Care for Mothers' 12.22.2015

Interview with Audrey Nowakowski

<http://wuum.com/post/new-study-seeks-change-postpartum-care-mothers>

19. **WUWM National Public Radio**, Lake Effect Program. 'Fit For You: Aging & Exercise' Interview with Audrey Nowakowski
<http://wuum.com/post/fit-you-aging-exercise#stream/0> 12.08.2015
20. **Runner's World**. *What's the Women's Equivalent of a Sub-2:00 Marathon?* by Amby Burfoot.
<http://www.runnersworld.com/elite-runners/whats-the-womens-equivalent-of-a-sub-200-marathon> 12.23.2014
21. **Southern California Public Radio**, KPCC. "Take Two" Program. Interviewers: Alex Cohen & A Martínez. "Who's the best at running marathons, men or women?"
<http://www.scpr.org/programs/take-two/2014/08/07/38741/who-s-the-best-at-running-marathons-men-or-women/> 08.07.2014
22. **New York Times**. "Women Pace Marathons Better than Men Do." by Gretchen Reynolds.
http://well.blogs.nytimes.com/2014/08/06/women-pace-marathons-better-than-men-do/?_php=true&_type=blogs&_r=0 08.06.2014
23. **Runners World** "Why Are Women Runners Less Competitive Than Men?" by Amby Burfoot.
<http://www.runnersworld.com/general-interest/why-are-women-runners-less-competitive-than-men> 01.02.2013
24. **Los Angeles Times** "Exercise counteracts aging effects: Keeping active won't let you live forever but it can stave off the ravages of time." by Amanda Mascarelli.
<http://articles.latimes.com/2011/sep/01/health/la-he-aging-physiology-20110901> 09.01.2011
25. **Milwaukee Public Radio, WUWM**. Lake Effect Program Interviewer: Mitch Teich. "Gender and Muscle Fatigue."
http://preview.wuum.com/programs/lake_effect/lake_effect_segment.php?segmentid=6008 06.28.2010
26. **Runners World**. "Age Matters." By Christie Aschwanden.
<http://www.runnersworld.com/masters-training/age-matters> 01.20.2009