

CURRICULUM VITAE

Lisa Griffin, Ph.D.

ADDRESS

Department of Kinesiology and Health Education
Bellmont Hall 718, 1 University Station, D3700
The University of Texas at Austin
Austin, TX, 78712

Office: 512-471-2786
Fax: 512-471-8914
e-mail: l.griffin@austin.utexas.edu

EDUCATION

<u>Year(s)</u>	<u>Institution</u>	<u>Degree</u>	<u>Major</u>
1995-1999	University of Western Ontario	Ph.D.	Neuroscience
1994-1995	University of Western Ontario	M.S.	Neuroscience
1989-1993	University of Guelph	B.Sc.	Human Kinetics with Biochemistry Minor

PROFESSIONAL APPOINTMENTS

<u>Year(s)</u>	<u>Position</u>	<u>Area/Department</u>	<u>Institution</u>
2019-present	Graduate Program Director	Movement and Cognitive Rehabilitation Science, Department of Kinesiology and Health Education	University of Texas at Austin
2009-present	Associate Professor	Department of Kinesiology and Health Education	University of Texas at Austin
2003-2009	Assistant Professor	Department of Kinesiology and Health Education	University of Texas at Austin
2001-2002	Seminar Instructor	Human Physiology	Canadian Memorial Chiropractic College
2001-2002	Postdoctoral Associate	School of Kinesiology and Health Science	York University

2000-2001	Postdoctoral Associate	Department of Neurological Surgery	The University of Miami
1994-1998	Teaching Assistant	Department of Physical Therapy	University of Western Ontario
1994	Research Assistant	Department of Physical Therapy	University of Western Ontario

SCIENTIFIC JOURNAL EDITORIAL POSITIONS

2024-present	Editor-in-Chief Translational Journal of the American College of Sports Medicine
2022-present	Associate Editor-in-Chief for Applied Sciences Medicine and Science in Sports and Exercise
2020-2022	Associate Editor Medicine and Science in Sports and Exercise
2012-present	Editorial Board Member Journal of Electromyography and Kinesiology
2007-2020	Medicine and Science in Sports and Exercise
1996-1999	Editor-in-Chief The Western Journal of Graduate Research

RESEARCH GRANTS

In Revision

Beck, (PI), Griffin (Co-I)
 \$430,785 NIH NIA R21 Clinical Trial
Visual versus Peripheral Feedback to Restore Walking Ability in Older Adults
 This project involves comparing biofeedback strategies for changing biomechanics during walking to improving metabolic cost in older adults.

Porterfield (PI), Griffin (Site PI)
 \$250,000 to Griffin, NIH SBIR Phase II Clinical Trial
Functional Electrical Stimulation for Ambulation in Post-Stroke Hemiparesis
 The purpose of this project is to test a functional electrical stimulation system to improve walking in patients with hemiplegia following stroke

Submitted

Porterfield (PI), Griffin (Site PI)

NIH SBIR Phase I Clinical Trial

Threshold-Adjustable Vibrating Insoles to Prevent Falls in Older Adults with Diabetes

The purpose of this project is to investigate a new intervention for the improvement of sensation and balance in patients with diabetic peripheral neuropathy.

McElroy (PI), Griffin (Consultant)

NIH SBIR Phase I Clinical Trial

Dual Myoelectric Stimulator to Help Restore Gait Function

The purpose of this project is to investigate a biomechanical feedback sensor device for the treatment of neck pain.

In Progress

Griffin (PI)

2024

\$25,000 Texas Proof of Concept Award, Discovery to Impact, University of Texas at Austin

Vibrating Insoles for Treatment of Diabetic Peripheral Neuropathy

The goal of this project is to design a prototype insole for improving blood flow and balance control in patients with diabetic peripheral neuropathy.

Griffin (PI)

2023-2024

\$2,000 UT CARE Initiative

Neuromuscular Control Patterns in Patients with Subacromial Pain Syndrome

This project involves the investigation of pain indices with neuromuscular measures in the shoulders of older adults.

Completed

Griffin (PI)

2023

\$16,109 Summer Research Award College of Education, UT Austin

Mechanisms of Rotator Cuff Disease in Younger and Older Adults

This project involves in the investigation of neuromuscular control deficits in patients with shoulder pain.

Griffin (PI)

2021-2023

\$10,000 College of Education, University of Texas at Austin

Balance Control in Older Adults with Diabetic Peripheral Neuropathy

This project involves the investigation of balance control parameters during a sit-to-stand in older adults with and without diabetic peripheral neuropathy.

Deshpande (PI), Griffin (Co-I)

2019-2020

\$10,000 College of Engineering, University of Texas at Austin

Fatigue Modeling for Exoskeleton Control

This project involves modeling neuromuscular fatigue of the elbow during use of a robotic exoskeleton.

Griffin (PI) 2017-2019
\$5,000 College of Education Small Grants Program
Development of Electrical Stimulation System for Establishing a Sit-to-Stand in individuals with Spinal Cord Injury. The purpose of this project is to determine optimal stimulation patterns and rehabilitation programs for sit-to-stand in patients with spinal cord injury.

Griffin (PI) 2014-2017
\$21,919 Articulate Labs
Effect of KneeStim application on Acoustic Myographic Recordings of Vastus Lateralis and Vastus Medialis Muscles in Patellofemoral Pain Syndrome Patients The purpose of this project is to test the efficacy of a neuromuscular electrical stimulation on post-stimulation voluntary muscular control patterns.

Griffin (PI) 2013-2014
\$118,874 Texas Department of Transportation
Stretch and Flex Program for TxDOT Operations
The purpose of this project was to develop an ergonomic guidebook and daily exercise program to prevent injuries in TxDOT employees.

Griffin (PI) 2013-2014
\$16,968.48 Trigger Point Performance
Effect of Trigger Point Performance Self-Massage on Muscle Activation, Flexibility, and Ground Reaction Forces
This project involved investigating the effects of massage on neuromuscular parameters.

Griffin (PI) 2010
\$36,000 Transformational Funding, College of Education, University of Texas at Austin
Development of Spinal Cord Injury Laboratory
This project involves the design of advanced functional electrical stimulation systems for cycling and standing.

Griffin (PI) 2009 - 2010
\$6,000 University of Texas Research Grant, Office of the Vice President for Research, University of Texas at Austin
Stimulation Patterns to Improve Endurance during Neuromuscular Electrical Stimulation
This project involves the design of an advanced functional electrical stimulation system.

Griffin (PI) 2005 – 2009
\$213,864 National Institute of Arthritis and Musculoskeletal and Skin Diseases
NIH 1 R03 AR52883-01
Motor Unit Activity and Force Steadiness Changes with Aging
This project involves measuring changes in motor unit firing rate synchronization and coherence in older adults before and after motor-learning training.

Griffin (PI) \$3,000 Dean's Fellowship, College of Education, University of Texas at Austin	2007
Griffin (PI) \$50,040 Lone Star Paralysis Foundation and Brain & Spine Center, Brackenridge Hospital <u>CNS and Metabolic Changes during FES Cycling and Biofeedback Rehabilitation following Spinal Cord Injury</u> This project involved measuring the changes in motor and sensory ability, body composition, bone density, glucose tolerance and inflammatory markers following 10 weeks of functional electrical stimulation cycle ergometry training with and without biofeedback in persons paralyzed by spinal cord injury.	2005 - 2007
Griffin (PI) \$34,566 Lone Star Paralysis Foundation and Brain & Spine Center, Brackenridge Hospital <u>Fatigue of Quadriceps Muscle Synergy in Spinal Cord Injured Persons during Functional Electrical Stimulation Cycling</u> This project involved investigating the impact of rotating electrical stimulation across synergistic quadriceps muscles on endurance time during FES cycling in paralyzed adults.	2005-2006
Griffin (PI), Abraham (Co-I) \$26,000 Vision Award, College of Education, University of Texas at Austin	2005-2006
Griffin (PI) \$6,000 University of Texas at Austin Research Grant, Office of the Vice President for Research, University of Texas at Austin <u>Neuromuscular Adaptations after ACL Injury and Surgical Reconstruction</u> This project involved recording synergistic muscle EMG patterns during a fatigue task of the quadriceps muscles.	2004-2005
Griffin (PI) \$11,600 University of Texas at Austin, Summer Research Assignment <u>Motor Unit Rate Coding to Reduce Fatigue during FES</u> This project involved testing constant versus progressively increasing stimulation frequency in able-bodied thenar muscles.	2004
Griffin (PI) Post Doctoral Research Fellowship \$70,000 Natural Sciences and Engineering Research Council of Canada <u>Variable Frequency Patterns for Stimulation of Muscle Paralyzed by Spinal Cord Injury</u> This project involved investigating evoked contractions in paralyzed and able-bodied individuals.	2000-2002

Griffin (PI) 1999
 \$4,000 Graduate Research Fellowship
 University of Western Ontario
Role of Afferent Activity during Dynamic Fatiguing Contractions
 This project involved investigating single motor unit firing patterns during fatigue.

Griffin (PI) 1996-1998
 \$36,000 Postgraduate Scholarship B
 Natural Sciences and Engineering Research Council of Canada
Afferent Input during Dynamic Fatiguing Contractions
 This project involved the investigation of single motor unit firing patterns during fatigue.

HONORS AND ACADEMIC AWARDS

<u>Year(s)</u>	<u>Description</u>	<u>Publisher/Institution</u>
2023	Reviewer Certificate	Acta Physiologica
2020 & 2023	Reviewer Certificate	The Journal of Physiology
2020	Reviewer Recognition	Spinal Cord, Springer, Nature
2019	Reviewer Certificate	Muscle and Nerve, Wiley
2018	Recognized Reviewer	Archives of Physical Medicine and Rehabilitation, Elsevier
2018	Recognized Reviewer	Neuroscience Letters, Elsevier
2017	Writing Flag Faculty Retreat Fund	School of Undergraduate Studies, University of Texas at Austin
2013	Certificate of Excellence in Reviewing	Journal of Electromyography and Kinesiology, Elsevier
2010-2012	Fellow, Joe R. & Teresa Lozano Long Endowed Faculty Fellows Fund	College of Education University of Texas at Austin
2006-2010	Fellow, Lee Hage Jamail Regents Chair in Education	College of Education University of Texas at Austin
2006	Commemorative Award	Services for Students with Disabilities University of Texas at Austin
2005-2006	UT Faculty and Student Teams for Technology (FAST-Tex) Award	Division of Instructional Innovation and Assessment University of Texas at Austin
1996-1999	Graduate Tuition Scholarship	The University of Western Ontario

1996	Best Masters Thesis 1996	Graduate Program in Neuroscience, The University of Western Ontario
1994	Neural and Neuromuscular Aspects of Fatigue Symposium Best Poster Award	Miami, FL

PROFESSIONAL MEMBERSHIPS

2023-present	Canadian Society for Exercise Physiology
2023-present	American Physiological Society, Women in Physiology Committee
2019-present	American College of Sports Medicine, Texas Chapter
2007-present	International Functional Electrical Stimulation Society
2003-present	American College of Sports Medicine
2003-present	American Physiological Society
1995-present	Society for Neuroscience
2003	Women in Neuroscience

PAPERS IN PREPARATION FOR PUBLICATION IN REFEREED JOURNALS

* Corresponding author; †graduate student under my supervision

†Zhu, H., † Yu, X, and ***Griffin, L.** Age-related modulation of intermuscular coherence across rotator cuff and deltoid muscles during a fatiguing isometric contraction. *J. Neurophysiology.*

†Zhu, H., † Yu, X, and ***Griffin, L.** Influence of Aging on Force Steadiness and Intermuscular Coherence of Shoulder Muscles During Isometric Contractions with Variable Loads. *J. Neurophysiology.*

†Wang, Z., and ***Griffin L.** Deficits of Common Inputs across the quadriceps in Females with and without Patellofemoral Pain during Fatigue. *Journal of Physiology.*

†Alighanbari, M., †Lowe, T., and ***Griffin, L.** Intermuscular Coherence between Synergistic and Antagonistic Muscles during Eccentric and Concentric Contractions. *Journal of Neurophysiology.*

†Yu, X., †Zhu, H., and ***Griffin, L.** Electromyographic Coherence across Rotator Cuff and Deltoid Vary with Force Intensities in Individuals with and without Subacromial Pain Syndrome *Journal of Neurophysiology.*

†Yu, X., †Zhu, H., and ***Griffin, L.** Fatigue-related changes in intermuscular coherence across rotator cuff and deltoid muscles in individuals with and without subacromial pain syndrome. *Journal of Neurophysiology.*

PAPERS SUBMITTED TO REFEREED JOURNALS

* Corresponding author; †graduate student under my supervision

†Lowe, T., Suresh, T., Freedberg, M., Hussain, S. J., and *Griffin L. Prolonged Hamstrings Vibration Increases Cortical and Spinal Excitability to Quadriceps Following Anterior Cruciate Ligament Reconstruction. *Journal of Neurophysiology*.

PAPERS IN REVISION FOR REFEREED JOURNALS

* Corresponding author; †graduate student under my supervision

†Lowe, T., Hsiao, H., Dong, X. N. and *Griffin L. Prolonged Hamstrings Vibration Reduces Limb Stiffness Following Anterior Cruciate Ligament Reconstruction. *Gait and Posture*.

†Yu, X., †Zhu, H., and *Griffin, L. Fatigue-related changes in intermuscular coherence across rotator cuff and deltoid muscles in individuals with and without subacromial pain. *Journal of Neurophysiology*.

PAPERS PUBLISHED IN REFEREED JOURNALS

* Corresponding author; †graduate student under my supervision

1. †Lowe, T., Dong X.D., *Griffin L. Acute Hamstring Vibration Reduces Peak Tibiofemoral Compressive Forces Following Anterior Cruciate Ligament Reconstruction. *Journal of Orthopaedic Research*, 2023. DOI: 10.1002/jor.25736
2. †Lowe, T., †Tenan, M., †Shah, K., and *Griffin L. Low-Load Blood Flow Restriction Reduces Time-To-Minimum Single Motor Unit Discharge Rate. *Experimental Brain Research*. 2023 Dec;241(11-12):2795-2805. doi: 10.1007/s00221-023-06720-8. Epub 2023 Oct 24. PMID: 37874365
3. †Jeon, W., Griffin, L. and *Hsiao, H., Effects of Initial Foot Position on Postural Responses to Lateral Standing Surface Perturbations in Younger and Older Adults. *Gait and Posture* 90 449–456, 2021.
4. Hou, X., Wang, X., Griffin, L., Liao, F., Peters, J., and *Jan, Y. Immediate and Delayed Effects of Cupping Therapy on Reducing Neuromuscular Fatigue. *Frontiers in Bioengineering and Biotechnology* Volume 9 | Article 678153 doi: 10.3389/fbioe.2021.678153, 2021.
5. Hou, X., Liu, J., Weng, K., Griffin, L., Rice, L. A. and *Jan, Y. Effects of Various Physical Interventions on Reducing Neuromuscular Fatigue Assessed by Electromyography: A Systematic Review and Meta-Analysis. *Frontiers in Bioengineering and Biotechnology* Volume 9 | Article 659138 doi: 10.3389/fbioe.2021.659138, 2021.

6. †Jeon, W., Whittall, J., **Griffin, L.** and *Westlake, K. Trunk Kinematics and Muscle Activation Patterns During Stand-To-Sit Movement and the Relationship with Postural Stability in Aging. *Gait and Posture* 86: 292–298, 2021.
7. †Jeon, W., †Harrison, J.M., Stanforth, P.R. ***Griffin, L.** Bone Mineral Density Differences across Female Olympic Lifters, Power Lifters and Soccer Players. *Journal of Strength and Conditioning Research* 35 (3): 638-643, 2021.
8. †Jeon, W., Hsiao, H., and ***Griffin, L.** Effects of Different Initial Foot Positions on Kinematics, Muscle Activation Patterns, and Postural Control During a Sit-To-Stand in Younger and Older Adults. *Journal of Biomechanics* 117: 110251, 2021.
9. Yu, S., †Lowe, T., **Griffin, L.**, and *Dong, X.N. Single Bout of Vibration-Induced Hamstrings Fatigue Reduces Quadriceps Inhibition and Coactivation of Knee Muscles after Anterior Cruciate Ligament (ACL) Reconstruction. *Journal of Electromyography and Kinesiology* 55:102464, 2020.
10. †Peng, Y., Johnson, A. E. and ***Griffin L.** Sex Differences in Neuromuscular Control of Quadriceps *European Journal of Applied Physiology* 120(10):2193-2202, 2020.
11. †Jeon, W., Jensen, J., and ***Griffin, L.** Muscle Activity and Balance during Sit-to-Stand across Symmetric and Asymmetric Initial Foot Positions in Healthy Adults. *Gait and Posture* 71: 138-144, 2019.
12. †Peng, Y., †Tenan, M. and ***Griffin L.** Hip Position and Sex Differences in Motor Unit Firing Patterns of the Vastus Medialis and Vastus Medialis Oblique in Healthy Individuals. *Journal of Applied Physiology* 124: 1438-1446, 2018.
13. †Jeon, W. and ***Griffin, L.** Effects of Pulse Duration on Muscle Fatigue during Electrical Stimulation Inducing Moderate-Level Contraction. *Muscle and Nerve* 57:642-649, 2018.
14. *†Doucet B. M., †Mettler J. A., **Griffin, L.** and Spirduso, W. W. Force Irregularity Following Maximal Effort: The After-Peak Reduction. *Perceptual and Motor Skills* 123: 244–257, 2016.
15. †Mettler, J. A. and ***Griffin L.** Muscular Endurance Training and Motor Unit Firing Patterns during Fatigue *Experimental Brain Research* 234: 267-276, 2016.
16. †Tenan, M. S., Hackney A, and ***Griffin L.** Maximal Force and Tremor Changes across the Menstrual Cycle. *European Journal of Applied Physiology* 116:153-160, 2016.
17. †Tenan, M. S., Hackney A, and ***Griffin L.** Entrainment of Vastus Medialis Complex Activity Differs between Genders. *Muscle and Nerve* 53(4):633-640, 2016.

18. †Tenan, M. S., Marti, C.N., and ***Griffin, L.** Motor Unit Discharge Rate is Correlated within individuals: A case for Multilevel Model Statistical Analysis. *Journal of Electromyography and Kinesiology* 24: 917-922, 2014.
19. †Tenan M. S., Brothers R.M., †Tweedell A.J., Hackney A.C., and ***Griffin L.** Changes in Resting Heart Rate Variability Across the Menstrual Cycle. *Psychophysiology* 51(10): 996–1004, 2014.
20. †Tenan, M. S. and ***Griffin, L.** New Advances in the Effect of Sex Hormones on Potential Lower Extremity Injury. *Lower Extremity Review* 5(9):55-59, 2013.
21. †Tenan, M. S., †Peng, Y-L, Hackney A, and ***Griffin L.** Menstrual Cycle mediates Vastus Medialis and Vastus Medialis Oblique Muscle Activity. *Medicine and Science in Sports and Exercise* 45(11):2151-2157, 2013.
22. *†Doucet, B. M. and **Griffin, L.** High vs. Low Frequency Stimulation Effects on Fine Motor Control in Chronic Hemiplegia. *Topics in Stroke Rehabilitation* 20(4):299–307, 2013.
23. †Doucet B. M., †Lam A., and ***Griffin, L.** Neuromuscular Electrical Stimulation for Skeletal Muscle Function. *Yale Journal of Biology and Medicine* 85:201-215, 2012.
24. *†Doucet, B. M. and **Griffin, L.** Variable stimulation patterns in younger and older thenar muscle. *Journal of Electromyography and Kinesiology* 22(2):215-22, 2012.
25. †Mettler, J. and ***Griffin, L.** Post-activation Potentiation and Muscular Endurance Training *Muscle and Nerve* 45(3):416-25, 2012.
26. †Dhindsa, M. S., Merring, C. A., Brandt, L .E., Tanaka H, ***Griffin, L.** Muscle spasticity associated with reduced whole-leg perfusion in persons with spinal cord injury. *The Journal of Spinal Cord Medicine* 34 (6): 594-599, 2011.
27. †Mettler, J. and ***Griffin, L.** What are the stimulation parameters that affect the extent of twitch force potentiation in the adductor pollicis muscle? *European Journal of Applied Physiology* 110: 1235-1242, 2010.
28. †Decker, M. J., ***Griffin L.**, Abraham L.D., and Brandt L. Alternating stimulation of synergistic muscles during functional electrical stimulation cycling improves endurance in persons with spinal cord injury. *Journal of Electromyography and Kinesiology* 20(6):1163-9, 2010.
29. *†Terry, C. K. and **Griffin, L.** Coherence and short-term synchronization are insensitive to motor unit spike nonstationarity. *Journal of Neuroscience Methods* 185(2):185-98, 2010.

30. *Griffin, L., †Painter, P. E., †Wadwha, A. and Spirduso, W. W. Motor unit Firing variability and synchronization during short-term light-load training in older adults. *Experimental Brain Research* 197:337-45, 2009.
31. †Doucet, B. M. and *Griffin, L. Variable stimulation patterns for post-stroke hemiplegia. *Muscle and Nerve* 39: 54-62, 2009.
32. *Griffin, L., †Decker, M. J., Hwang, J. Y., Wang, B., Kitchen, K., Ding, Z. and Ivy, J. L. Functional electrical stimulation cycling improves body composition, metabolic and neural factors in persons with spinal cord injury. *Journal of Electromyography and Kinesiology* 19: 614-622, 2009.
33. *Griffin, L. and †Shaikh, T. A. Comments on Point: Counterpoint: The interpolated twitch does/does not provide a valid measure of the voluntary activation of muscle. *Journal of Applied Physiology* 107:359-66, 2009.
34. †Doucet, B. M. and *Griffin, L. Maximal versus submaximal intensity stimulation with variable patterns. *Muscle and Nerve* 37: 770-777, 2008.
35. *Griffin, L. and †Anderson, N. C. Fatigue in high- versus low-force voluntary and evoked contractions. *Experimental Brain Research* 187: 387-394, 2008.
36. †Terry, K. and *Griffin, L. How computational technique and spike train properties affect coherence detection. *Journal of Neuroscience Methods* 168: 212-223, 2008.
37. *Griffin, L., †Jun, B.G., †Covington, C. and †Doucet, B.M. Force output during fatigue with progressively increasing stimulation frequency. *Journal of Electromyography and Kinesiology* 18: 426-433, 2008.
38. †Indurthy, M., and *Griffin, L. Effect of random interpulse interval modulation on neuromuscular fatigue. *Muscle and Nerve* 36: 807-815, 2007.
39. *Griffin, L. and Cafarelli, E. Transcranial magnetic stimulation during resistance training of the tibialis anterior muscle. *Journal of Electromyography and Kinesiology* 17: 446-452, 2007.
40. Biro, A, Griffin L., *Cafarelli E. Reflex gain of muscle spindle pathways during fatigue. *Experimental Brain Research* 177: 157-166, 2007.
41. Pucci, A. R., *Griffin, L. and Cafarelli, E. Maximal motor unit firing rates during isometric resistance training in men. *Experimental Physiology* 91: 171-178, 2006.
42. *Griffin, L. and Cafarelli, E. Resistance training: cortical, spinal, and motor unit adaptations. *Canadian Journal of Applied Physiology* 30: 328-340, 2005.

43. *Thomas, C. K., **Griffin, L.** Godfrey, S., Ribot-Ciscar, E. and Butler, J.E. Fatigue of paralyzed and control thenar muscles induced by variable or constant frequency stimulation. *Journal of Neurophysiology* 89: 2055-2064, 2003.
44. Godfrey, S., Butler, J. E. **Griffin, L.** and Thomas, C. K. Differential fatigue of paralyzed thenar muscles by stimuli of different intensities. *Muscle and Nerve* 26: 122-131, 2002.
45. **Griffin, L.**, Godfrey, S. and Thomas, C. K. Stimulation pattern that maximizes force in paralyzed and control whole thenar muscles *Journal of Neurophysiology* 87: 2271-2278, 2001.
46. **Griffin, L.**, Garland, S. J., Ivanova, T. and Gossen, E. R. Muscle vibration sustains motor unit firing rates during submaximal isometric fatigue in humans. *Journal of Physiology (London)* 535: 929-936, 2001.
47. **Griffin, L.**, Garland, S. J., Ivanova, T. and Hughson, R. L. Blood flow in the triceps brachii muscle in humans during sustained submaximal isometric contractions. *European Journal of Applied Physiology* 84: 432-437, 2001.
48. **Griffin, L.**, Ivanova, T. and Garland, S. J. Role of limb movement in the modulation of motor unit discharge rate during fatiguing contractions. *Experimental Brain Research* 130: 392-400, 2000.
49. Garland, S. J. and **Griffin, L.** Motor unit double discharges: Statistical anomaly or functional entity? *Canadian Journal of Applied Physiology* 24: 113-130, 1999.
50. **Griffin, L.**, Garland, S. J. and Ivanova, T. Discharge patterns in human motor units during fatiguing arm movements. *Journal of Applied Physiology* 85: 1684-1692, 1998.
51. Garland, S. J., **Griffin, L.** and Ivanova, T. Motor unit discharge rate is not associated with muscle relaxation time in sustained submaximal contractions in humans. *Neuroscience Letters* 239: 25-28, 1997.

CONFERENCE ABSTRACTS AND PRESENTATIONS

1. Alighanbari, M., and Griffin, L. Effect of Diabetic Peripheral Neuropathy on Antagonistic Muscle Coactivation in Older Adults During Stand-to-Sit tasks. American College of Sports Medicine, Texas Chapter, 2024
2. Li, X., Zhu, H., and Griffin L. EMG Coherence across Shoulder Muscles during Fatigue in Older Adults with Rotator Cuff Disease. American College of Sports Medicine, Texas Chapter, 2024

3. Lowe, T., Jeon, W., and **Griffin, L.** Muscle Synergy Differences During a Single-Limb Loading Task Following Anterior Cruciate Ligament Reconstruction. American College of Sports Medicine (submitted).
4. Alighanbari, M., and **Griffin, L.** Differences in Neuromuscular Control between the Lower Limbs in Patients with Diabetic Peripheral Neuropathy. American College of Sports Medicine (submitted).
5. Li, X., Zhu, H., and **Griffin L.** EMG Coherence across Shoulder Muscles during Fatigue in Older Adults with Rotator Cuff Disease. American College of Sports Medicine (submitted).
6. Zhao, N., Yu, X., and **Griffin, L.** Alternating Muscle Activation Patterns Across the Deltoid Muscles During Sustained Fatiguing Contractions. American College of Sports Medicine (submitted).
7. Alighanbari, M., Jahdi, A., Virani, I., and **Griffin, L.** Muscle Activity Patterns in Patients with Diabetic Peripheral Neuropathy during Sit-to-Stand. Society for Neuroscience, Washington, DC, 2023.
8. Zhu, H., Yu, X., and **Griffin, L.** Age-Related Differences in Electromyographic Coherence of Rotator Cuff and Deltoid Muscles during Fatigue. Society for Neuroscience, Washington, DC, 2023.
9. Alighanbari, M., Hsiao, H., and **Griffin, L.** Sit-to-Stand Balance Control in Diabetic Peripheral Neuropathy. American Society of Biomechanics, Knoxville, TN, 2023
10. Lowe, T., Suresh, T., Yang, J., Freedberg, M., Hussain, S.J., and **Griffin, L.** Acute Prolonged Hamstrings Vibration Increases Quadriceps Spinal and Corticospinal Excitability Following Anterior Cruciate Ligament Reconstruction. American College of Sports Medicine, Denver, CO, 2023.
11. Corral, C., Zhu, H., Yu, X., and **Griffin, L.** Differences in Load Response of Rotator Cuff and Deltoid Muscles in Younger and Older Adults. UT Care Research Day, University of Texas at Austin, 2023.
12. Zhu, H., Corral, C., Yu, X., and **Griffin, L.** Differences in Load Response of Rotator Cuff and Deltoid Muscles in Younger and Older Adults. American College of Sports Medicine, Texas Chapter, 2023.
13. Yu, X., Zhu, H., Corral, C., and Griffin, L. Common drive to rotator cuff and deltoid muscles during fatigue in individuals with and without subacromial pain syndrome. UT Care Research Day, The University of Texas at Austin, 2023.
14. Alighanbari, M., Hsiao, H., and Griffin, L. Sit-to-Stand Balance Control in Diabetic Peripheral Neuropathy, UT Care Research Day, The University of Texas at Austin, 2023.

15. Zhao, N., Yu, X., and Griffin, L. Alternating muscle activation patterns across the deltoid muscles during fatigue in individuals with and without shoulder pain. UT Care Research Day, UT Austin 2023.
16. Li, Chenyang, Lowe, T., Griffin, L. Kinetic and Kinematic Difference Between First and Second Landing of a Single Leg Drop Vertical Landing Task. American College of Sports Medicine, Texas Chapter, Waco, TX, 2023.
17. Alighanbari, M. and Griffin, L. Timing of Muscle Synergies and Timing of the Knee and Hip moments During the Stand-to-Sit task. American College of Sports Medicine, Texas Chapter, Waco, TX, 2023.
18. Yu, X., Zhu, H., Corral, C., and **Griffin, L.** Common drive to rotator cuff and deltoid muscles during fatigue in individuals with and without subacromial pain syndrome. American College of Sports Medicine, Texas Chapter, Waco, TX, 2023.
19. Zhu, H., Corral, C., Yu, X., and **Griffin, L.** Differences in Load Response of Rotator Cuff and Deltoid Muscles in Younger and Older Adults. American College of Sports Medicine, Denver, CO, 2023.
20. Yu, X., Zhu, H., Corral, C., and **Griffin, L.** Common drive to rotator cuff and deltoid muscles during fatigue in individuals with and without subacromial pain syndrome. American College of Sports Medicine, Denver, CO, 2023.
21. Alighanbari, M., Lowe, T., **Griffin, L.** Relationship between the hip and knee mechanical loading with intermuscular coherence during sit-to-stand and stand-to-sit. Orthopedic Research Society, Dallas, TX, 2023.
22. Lowe, T.W., Hsiao, H. Dong, X.N. and **Griffin, L.** Effects of Hamstring Vibration on Limb Stiffness Following Anterior Cruciate Ligament Reconstruction. Orthopedic Research Society, 2022.
23. Lowe T., Suresh T., Yang J., Hussain S., Freedberg, M. **Griffin L.** Acute effects of Hamstring Vibration on Quadriceps Spinal and Cortical Excitability, 2022 CARE Research Day, Austin, TX, 2022.
24. Yu, X., Zhu, H., Hammond, L., and **Griffin, L.** Intermuscular coherence of rotator cuff and deltoid muscles varies with force output. CARE Research Day, UT Austin, TX, 2022.
25. McDonald A., Lowe T., **Griffin.** Effects of Hamstring Vibration on Limb Loading Following Anterior Cruciate Ligament Reconstruction, 2022 CARE Research Day, Austin, TX, 2022.
26. McDonald A., Lowe T., **Griffin.** Effects of Hamstring Vibration on Limb Loading Following Anterior Cruciate Ligament Reconstruction, 2022 Longhorn Research Poster Session, UT Austin, Austin, TX, 2022.

27. Alighanbari M., Lowe T., **Griffin L.** Intermuscular Coherence Between Synergist and Antagonist Muscles During Eccentric and Concentric Contractions, 2022 CARE Research Day, February 22, Austin, TX, 2022.
28. Wasson J., Alighanbari M., Lowe T., **Griffin L.** Joint Compressive and Shear Force Differences Between Sit-to-Stand and Stand-to-Sit, 2022 CARE Research Day, February 22, Austin, TX, 2022.
29. Yu, X., Zhu, H., Hammond, L., and **Griffin, L.** Intermuscular coherence of rotator cuff and deltoid muscles varies with force output. Interprofessional Health Showcase, University of Texas at Austin, 2022.
30. Yu, X., Zhu, H., Hammond, L., and **Griffin, L.** Intermuscular coherence of rotator cuff and deltoid muscles varies with force output. American College of Sports Medicine Texas Chapter, 2022. Waco, TX
31. Yu, X., Zhu, H., Hammond, L., and **Griffin, L.** Intermuscular coherence of rotator cuff and deltoid muscles varies with force output. American College of Sports Medicine, 2022 San Diego, CA
32. Lowe, T.W., Alighanbari, M., **Griffin, L.** and Dong, X.N. Acute prolonged vibration of the hamstrings reduces tibiofemoral compressive forces following anterior cruciate ligament reconstruction. Orthopedic Research Society, 2021.
33. Wang, Z., Johnson, A. E., and **Griffin, L.** Vasti motor units are less synchronized in adults with patellofemoral pain. Society for Neuroscience 2021.
34. Yu, X., Hammond, L., Zhu, H., Wang, Z., and **Griffin, L.** Fatigue-related changes in intermuscular coherence of rotator cuff and deltoid muscles. Society for Neuroscience 2021.
35. Jeon, W., **Griffin, L.** Bel, M., and Hsiao, H.-Y., Effect of initial foot position on postural responses to lateral perturbations during standing in younger and older adults. Gait and Clinical Movement Analysis Society 2021.
36. Wang, Z., Johnson, A. E., and **Griffin, L.** Sex Differences in Vasti Synergistic Control Patterns for Neuromuscular Endurance. Society for Neuroscience 2021.
37. Madden, K.E., Djurdjanovic, D., **Griffin, L.** and Deshpande, A. D. “Assessing Neuromuscular Fatigue using a Model-based Approach to Monitoring Performance Degradation,” presented at the 2020 Military Health System Research Symposium, 2020.
38. Pew, C. A. Jeon, W., **Griffin, L.**, and Neptune, R. R. Simulation of Muscle Forces during Sit-to-Stand with Varied Initial Foot Positions: A Case Study. American Society of Biomechanics, 2020.

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40. Jeon, W., Harrison, J.M. and Stanforth, P.R. **Griffin, L.** Differences in Bone Mineral Density at the Femoral Neck and Lumbar Regions across Female Soccer Players, Olympic Lifters and Power Lifters. American College of Sports Medicine Texas Chapter, 2020.
41. **Griffin, L.**, Jeon, W., Harrison, J.M. and Stanforth, P.R. Differences in Bone Mineral Density at the Femoral Neck and Lumbar Regions across Female Soccer Players, Olympic Lifters and Power Lifters. American College of Sports Medicine, 2020.
42. Wang, Z., Chen, A., Johnson, A. E., and **Griffin, L.** Differences in Neuromuscular Fatigue Effect on Intermuscular Control Patterns in Leg Extensors between the Sexes. American College of Sports Medicine, 2020.
43. Lowe T., **Griffin L.**, Dennis R.W., Arce-Esquivel A., Dong XN. Effects of a 4-week vibration-induced hamstrings fatigue intervention on quadriceps weakness after ACL reconstruction, 2020 TACSM Annual Meeting, Waco, TX, 2020.
44. Lowe T, **Griffin L**, Dennis R, Arce-Esquivel A, Dong XN. Effects of a 4-week Vibration induced Hamstrings Fatigue Intervention on Quadriceps Weakness after ACL Reconstructiton. *Int J Exerc Sci Conf Proc* 2020:2(12).
45. Lowe T., **Griffin L.**, Dong X.N. Acute Local Prolonged Vibration Results in a Decrease in Peak Knee Flexor Maximum Voluntary Contraction, 2020 Orthopedic Research Society Annual Meeting, February 8-11, Phoenix, AZ, 2020.
46. Yu, S., Lowe, T., **Griffin, L.**, and Dong, X.N. Vibration-induced Hamstrings Fatigue Reduces Muscle Inhibition of the Quadriceps and Co-contraction of Knee Muscles for Individuals with Anterior Cruciate Ligament Reconstruction, Orthopaedic Research Society, 2020.
47. Jeon, W., Hsiao, H.-Y., Wreford, B., Coronado, C. and **Griffin, L.** Effects of aging on muscle activation patterns and postural control during a sit-to-stand with different initial foot positions. Program No 316.03. Neuroscience Meeting Planner. Society for Neuroscience, 2019.
48. Wang, Z., Johnson, A. and **Griffin, L.** Neuromuscular Fatigue and Sex Differences in Patellofemoral Joint Control. Society for Neuroscience, 2019.
49. **Griffin, L.**, Gregg, R. and Tenan, M.S. Motor unit discharge rates during ischemic sustained submaximal isometric contractions. Program No. 772.04. Society for Neuroscience, 2018.

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51. Jeon, W., Gupta, D., Fennell, J., Jensen J. L., **Griffin, L.** Balance and muscle activation patterns during sit-to-stand across four initial foot positions. Program No. 409.05. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2017.
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55. Peng, Y.L., Tenan, M.S., **Griffin L.** Sex Differences in the Control of Vastus Medialis and Vastus Medialis Oblique. Society for Neuroscience Program No. 250.14/WW12.2016.
56. Jeon, W., Soodi, C., and **Griffin, L.** Effects of current amplitude and pulse duration modulation on neuromuscular fatigue during repetitive electrical stimulation. *Medicine and Science in Sports and Exercise* 48(5): 314, 2016.
57. Gupta, D., Kirn, L., Jensen, J. **Griffin, L.** Electrical stimulation for patellofemoral pain syndrome. *American Academy of Pain Management*. <http://meeting.aapainmanage.org/poster-abstracts/>. 2016.
58. **Griffin, L.** Neuromuscular physiology and spinal cord injury research, success in science: Do's and don't's. Department of Biomedical Engineering, University of Texas at Austin, Austin, TX, 2016.
59. Tenan MS, Hackney AC, **Griffin L.** Motor unit coherence is stable between follicular and luteal phases of the human menstrual cycle. *Society for Neuroscience Abstracts* 160.10/FF31, 2014.
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61. Peng YL, Tenan MS, **Griffin L.** Differential activation of the vastus medialis and the vastus medialis oblique. *Society for Neuroscience Abstracts* 160.14/GG3, 2014.

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63. **Griffin L.** Acute and chronic treatment for paralysis from spinal cord injury, Texas A & M University, College Station, Texas. 2014.
64. **Griffin L.** Neuromuscular physiology and spinal cord injury research, success in science: Do's and don't's. *Women in Natural Sciences*, University of Texas at Austin, Austin, TX, 2014.
65. Tenan MS, Lam A, Hackney AC, **Griffin L.** Muscle activity of the vastus medialis and vastus medialis oblique are differentially modulated by the menstrual cycle. *Journal of Athletic Training*. 2013; 48(3): S-175.
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70. Parmar, Y. and **Griffin, L.** Association between Reduced Limb Perfusion and Muscle Spasticity in Individuals with Spinal Cord Injury *Medicine and Science in Sports and Exercise*, 43:5, 2011.
71. Shah, K. and **Griffin, L.** Motor Unit Firing Patterns during Sustained Ischemic Submaximal Fatiguing Contractions. *Medicine and Science in Sports and Exercise*, 43:5, S642, 2011.
72. Mettler, J.A. and **Griffin, L.** Post-activation Potentiation following Voluntary Conditioning Contractions of Maximal and Sub-maximal Intensity. *Medicine and Science in Sports and Exercise* 41: S5, 2009.
73. Painter, P. and **Griffin, L.** Hand steadiness and coherence following motor learning training. *Medicine and Science in Sports and Exercise* 40: S346, 2008.

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76. **Griffin, L.** Neural adaptations to training and fatigue: Applications to spinal cord injury. *Frontiers in Neuroscience Seminar Series, Brackenridge Hospital, Austin, TX, USA, 2008.*
77. **Griffin, L.** Neural adaptations to training and fatigue: Applications to spinal cord injury. *Center for Rehabilitation Sciences, University of Texas Medical Branch, Galveston, TX, USA, 2008.*
78. **Griffin, L.,** Anderson, N. C. and Watkins, K. Low-frequency fatigue during low- versus high- intensity voluntary and evoked contractions. *Society for Neuroscience Abstracts* 291.6, 2007.
79. Doucet, B. M. and **Griffin, L.** Variable frequency stimulation in healthy and post-stroke populations. *Society for Neuroscience Abstracts* 511.3, 2007.
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82. Doucet, B. and **Griffin, L.** Increasing stimulation frequency prolongs force output in healthy thenar muscle. *Medicine and Science in Sports and Exercise* 39: S329, 2007.
83. Mettler, J. A. and **Griffin, L.** Motor unit firing patterns during fatigue: adaptations following endurance training. *Medicine and Science in Sports and Exercise* 39: S330, 2007.
84. Decker, M.J., **Griffin, L.,** Wang, B., Hwang, J., Zhenping, D. and Ivy, J.L. FES cycling improves CNS status and decreases metabolic risk factors in SCI individuals. *Medicine and Science in Sports and Exercise* 39: S288, 2007.
85. **Griffin, L.** Neural Adaptations to Training and Fatigue: Applications to Spinal Cord Injury. *Institute for Neuroscience, University of Texas at Austin, Austin, TX, USA, 2007.*
86. **Griffin, L.** Neural Adaptations to Training and Fatigue: Applications to Spinal Cord Injury. *The Lynn W. McCraw Lecture Series. Dept. of Kinesiology and Health Education, University of Texas at Austin, Austin TX, USA, 2007.*

87. **Griffin, L.** Neural Adaptations to Training and Fatigue: Applications to Spinal Cord Injury. Dept. of Health and Kinesiology, Texas A & M University, TX, College Station, TX, USA, 2007.
88. Terry, C.K. and **Griffin, L.** Improving the reliability of motor unit coherence measurements. Society for Neuroscience Abstracts 652.8, 2006.
89. Terry, C.K. and **Griffin, L.** Improving the reliability of motor unit coherence measurements. Biomedical Engineering Society 2006.
90. Doucet, B. and **Griffin, L.** Low-frequency neuromuscular electrical stimulation Improves motor control of the hand in chronic post-stroke individuals. *Stroke* 37: 2, 2006.
91. Indurthy, M, and **Griffin, L.** Effect of random interval modulation on fatigue during electrical stimulation. *Medicine and Science in Sports and Exercise* 38: S443, 2006.
92. Cintolesi, V. A. and **Griffin, L.** Post-activation potentiation following electrical stimulation of different frequencies. *Medicine and Science in Sports and Exercise* 38: S441, 2006.
93. Decker, M., **Griffin, L.**, Kitchen, K., Brandt, L., Abraham, L. Fatigue of the quadriceps muscles during FES cycling. *Medicine and Science in Sports and Exercise* 38: S260, 2006.
94. Doucet, B. and **Griffin, L.** Low-frequency neuromuscular electrical stimulation improves motor control of the hand in chronic post-stroke individuals. *Stroke* 37: 736, 2006.
95. **Griffin, L.** Neuromuscular Physiology Overview, Habilitation Therapies Annual Conference, Austin, TX, USA, 2006.
96. **Griffin, L.** Functional Electrical Stimulation of Paralyzed Muscle. Brain and Spine Center, Brackenridge Hospital, Austin TX, USA, 2006.
97. Terry, C.K. and **Griffin, L.** Evaluating the effects of variability on motor unit synchronization measurements. Society for Neuroscience Abstracts 399.12, 2005.
98. Decker, M.J., **Griffin, L.**, Abraham, L. Force fluctuations and alternating muscle activation patterns of synergistic muscles during a sustained submaximal contraction. *Medicine and Science in Sports and Exercise* 37: S400, 2005.
99. **Griffin, L.** Functional Electrical Stimulation for Individuals with Spinal Cord Injury. Lone Star Paralysis Foundation, Austin, TX, USA, 2005.
100. **Griffin, L.** FES Cycling for Spinal Cord Injured Patients. Lone Star Classic, Lone Star Paralysis Foundation, Austin, TX, USA, 2005.

101. **Griffin, L.** Motor Unit Firing Rates and FES Stimulation Patterns during Fatigue and Training. Dept. of Health and Kinesiology, Texas A & M University, TX, College Station, TX, USA, 2005.
102. Jun, B. G. and **Griffin, L.** Linearly increasing stimulation frequency does not reduce low-frequency fatigue. Society for Neuroscience Abstracts 188.1, 2004.
103. Doucet, B. M. and **Griffin, L.** Difficulty during release phase of force-accuracy tasks: after peak reverberation. Society for Neuroscience Abstracts 188.3, 2004.
104. **Griffin, L.**, and Cafarelli, E. Neural excitability following resistance training studied with transcranial magnetic stimulation. *Medicine and Science in Sports and Exercise* 35: S293, 2003.
105. **Griffin, L.** Motor Unit Firing Rates and FES Stimulation Patterns during Fatigue and Training. Institute of Neuroscience, University of Texas at Austin, Austin, TX, USA, 2003.
106. **Griffin, L.** Cortical Adaptation to Isometric Resistance Training. Canadian Society for Exercise Physiology, Niagara on the Lake, ON, Canada, 2003.
107. **Griffin, L.** Optimization of Functional Electrical Stimulation Patterns, Texas Paralyzed Veterans Association, San Antonio, TX, USA, 2003.
108. **Griffin, L.** Central excitability and resistance training. Exercise Neuroscience Conference, Hamilton, ON, Canada, 2002.
109. **Griffin, L.** Motor Unit Firing Rates during Exercise Training and Fatigue in Control and Paralyzed Muscle. College of Kinesiology, University of Saskatchewan, Saskatoon, SK, Canada, 2002.
110. **Griffin, L.** Motor Unit Firing Rates during Exercise Training and Fatigue in Control and Paralyzed Muscle. School of Kinesiology, Simon Fraser University, Burnaby, BC, Canada, 2002.
111. **Griffin, L.** Motor Unit Firing Rates during Exercise Training and Fatigue in Control and Paralyzed Muscle. Dept. of Kinesiology and Health Education, University of Texas at Austin, Austin, TX, USA, 2002.
112. **Griffin, L.** Motor Unit Firing Rates during Exercise Training and Fatigue in Control and Paralyzed Muscle. Dept. of Physical Therapy, Marquette University, Milwaukee, MA, USA, 2002.

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114. Zijdewind, I., **Griffin, L.** and Thomas, C. K. Motor unit behavior following spinal cord injury. www.colorado.edu/kines/BoulderMeeting.html, 2000.
115. Thomas, CK, Zijdewind, I., **Griffin, L.** Double discharges in thenar muscles paralyzed by spinal cord injury. Evidence of plateau potentials in human motoneurons conference, Boulder, CO, USA, 2000.
116. **Griffin, L.**, Garland, S. J. and Ivanova, T. Muscle vibration can sustain motor unit firing rates during isometric fatigue. Society for Neuroscience Abstracts 25: 613.5, 1999.
117. **Griffin, L.**, Garland, S. J. and Ivanova, T. Motor unit firing rates decline during fatiguing 'simulated movements' in humans. Society for Neuroscience Abstracts 23: 814.6, 1997.
118. **Griffin, L.**, Garland, S. J. and Ivanova, T. Motor unit discharge rates and muscle contractile properties during low-force fatiguing contractions in humans. Canadian Journal of Applied Physiology 22: 24P, 1997.
119. **Griffin, L.**, Garland, S. J. and Ivanova, T. Motor unit discharge rates and muscle contractile properties during low-force fatiguing contractions in humans. Southern Ontario Neuroscience Association, London, ON, Canada, 1997.
120. **Griffin, L.** Body in Motion. Multimedia Lab Presentations, Spring Perspectives on Teaching, University of Western Ontario, London, ON, Canada, 1997.
121. **Griffin, L.**, Garland, S. J. and Ivanova, T. Motor unit firing rates decline during low-force sustained isometric contractions in humans. Society for Neuroscience Abstracts 22: 264.7, 1996.
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123. Garland, S. J., **Griffin, L.**, Ivanova, T. and Miller, K.J. Motor unit discharge during fatiguing arm movements. Proceedings of the Australian Neuroscience Society 7: 151, 1996.
124. **Griffin, L.**, Garland, S. J. and Ivanova, T. Motor unit firing rates decline during low-force sustained isometric contractions in humans. Neuroscience Program Research Day, University of Western Ontario, London, ON, Canada, 1994.
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127. **Griffin, L.,** Garland, S. J., and Ivanova, T. D. Double discharges of motor units during fatiguing arm movements. Neural and Neuromuscular Aspects of Muscle Fatigue Symposium, Miami, FL, USA, 1994.

FEATURED INTERVIEWS IN TEXTBOOKS

Introduction to Exercise Science 4rd ed.

American College of Sports Medicine
Wolters Kluwer/Lippincott Williams & Wilkins, 2020

Introduction to Exercise Science 3rd ed.

American College of Sports Medicine
Wolters Kluwer/Lippincott Williams & Wilkins, 2016

Holt Physics

Careers Chapter, Kinesiology
Holt, Rinehart and Winston, 2006

GRANT REVIEWING

<u>Year</u>	<u>Description</u>	<u>Funding Agency</u>
2024	Texas ACSM Student Research Development Award	American College of Sports Medicine, Texas Chapter
2022-2023	Congressionally Directed Medical Research Programs (CDMRP), Ad Hoc Panel Chair	Department of Defense (DoD), USA
2014-2023	Congressionally Directed Medical Research Programs (CDMRP)	Department of Defense (DoD), USA
2023	Undergraduate Research Fellowship	School of Undergraduate Studies, University of Texas at Austin
2022	Swiss National Science Foundation	Swiss National Science Foundation Switzerland
2019-2021	Research Grants, Office for the Vice president of Research	University of Texas at Austin, Austin, TX, USA
2019	Erwin Schroedinger Fellowship	Austrian Science Fund, Austria

2017	Undergraduate Research Fellowship	School of Undergraduate Studies, University of Texas at Austin
2017	Revised Proposals for RR&D Merit Awards	Department of Veterans Affairs, Washington, DC, USA
2017	RR&D Merit Awards	Department of Veterans Affairs, Washington, DC, USA
2013	The Scientific Committee of the Association Française contre les Myopathies, France	The Scientific Committee of the Association Française contre les Myopathies, France
2011-2012	Florida 21 st Century Community Learning Centers Request for Proposals	University of Florida, FL, USA
2010	Research Grants, Office for the Vice president of Research	University of Texas at Austin, Austin, TX, USA
2010	Physiological Sciences Grants Management Department	The Wellcome Trust, London, UK
2008	Pepper Pilot Grant, Sealy Center on Aging	University of Texas Medical Branch, Galveston, TX, USA
2004	Research Grants, Office for the Vice president of Research	University of Texas at Austin, Austin, TX, USA

EXTERNAL REVIEWER FOR TENURE AND PROMOTION

2016	School of Physical Education and Tourism Management Indiana University Indiana, TX, USA
2015	Health and Human Development Department Montana State University Bozeman, MT, USA

BOOK REVIEW PANEL

2022	ACSM's Exercise Testing and Prescription, 2 nd edition American College of Sports Medicine Wolters Kluwer/Lippincott Williams & Wilkins, 2022
2011	Illustrated Review of Neuroanatomy 3 Dimensional Perspective, Pearson Health Science, 2011

2010

ACSM's Advanced Exercise Physiology, 2nd Edition
American College of Sports Medicine
Wolters Kluwer/Lippincott Williams & Wilkins, 2010

SCIENTIFIC JOURNAL REVIEW

*see also Editorial Positions listed on page 2

2000-present

Expert Reviewer for Peer-Reviewed Journals

Journal of Physiology
Neuroscience
Journal of Neurophysiology
Medicine and Science in Sports and Exercise
Journal of Applied Physiology
Muscle and Nerve
Experimental Brain Research
Canadian Journal of Applied Physiology
Applied Physiology, Nutrition, and Metabolism
Science Robotics
Neuroscience Letters
European Journal of Applied Physiology
Experimental Physiology
Archives of Physical Medicine and Rehabilitation
Clinical Neurophysiology
IEEE Transactions in Biomedical Engineering
Spinal Cord
Journal of Biomechanics
Acta Physiologica
Physical Therapy
Journal of NeuroEngineering and Rehabilitation
Clinical Biomechanics
Medical Engineering & Physics
Journal of Sport Rehabilitation
Journal of Pediatric Rehabilitation
Sensors
PLOS ONE
Journal of Pediatric Rehabilitation Medicine
Journal of Medical and Biological Engineering

TEACHING EXPERIENCE

Total students graduated: 9 Ph.D., 32 masters

CURRENT GRADUATE STUDENT SUPERVISION

College of Education

Department of Kinesiology and Health Education

Ph.D. Candidates

2020-present Huiying Zhu
2019-present Mohsen Alighanbari

Ph.D. Students

2023-present Ningzhen Zhao
2023-present Xinyu Li

MS students

2024-present Mark Martinez

M.Sc. Report Students

2022-present Ashriya Joshi

M.Ed. Students

2022-present Chastitie Gaines
2022-present Lauren Lara
2023-present Ariana Ramos

PREVIOUS GRADUATE STUDENT SUPERVISION

Ph.D. Students Graduated

<u>Years</u>	<u>Name</u>	<u>Department</u>	<u>Current Position</u>
2019-2023	Xin Yu	Kinesiology and Health Education	Postdoctoral Fellow, Fienberg School of Medicine, Northwestern University
2018-2022	Timothy Lowe	Kinesiology and Health Education	Postdoctoral Fellow, Department of Biomedical Engineering, University of Colorado

2016-2021	Zhong Wang	Kinesiology and Health Education	Postdoctoral Fellow, Department of Physiology, Feinberg School of Medicine, Northwestern University
2015-2020	Woohyoung Jeon	Kinesiology and Health Education	Assistant Professor, Department of Health and Kinesiology, University of Texas at Tyler
2012-2018	Yi Ling Peng	Kinesiology and Health Education	Assistant Professor, Tunghai University Taichung City, Taiwan
2010-2014	Matthew S. Tenan	Kinesiology and Health Education	Director for Human Performance Research & Data Science, Rockefeller Neuroscience Institute, West Virginia University
2004-2010	Joni Mettler	Kinesiology and Health Education	Associate Professor, Department of Health and Human Performance, Texas State University
2003-2007	Barbara M. Doucet	Kinesiology and Health Education	Clinical Associate Professor, Robbins College of health and Human Sciences, Baylor University
2003-2007	C. Kevin Terry	Biomedical Engineering	Lecturer Dept. of Mechanical and Biomedical Engineering Boise State University

Research Advisor for Medical School Residency

2012-2013 Premal Bhavsar, State University of New York

Doctoral Thesis Committee Member

Year	Name	Advisor	Department
2023-present	Keng-Hung Shen	H. Hsiao	Kinesiology and Health Education

2023-present	Forouzan Foroughi	H. Hsiao	Kinesiology and Health Education
2016-present	Soroosh Sadeh	H. Hsiao	Kinesiology and Health Education
2018-2022	Kaci Madden	Deshpande	Mechanical Engineering
2013-2018	Andy Cheshire	J. Bartholomew	Kinesiology and Health Education
2007-2012	Liao Yi-Hung	J. L. Ivy	Kinesiology and Health Education
2007-2012	Bei Wang	J. L. Ivy	Kinesiology and Health Education
2007-2012	Trenah Herring	W. W. Spirduso	Kinesiology and Health Education
2007-2012	Sukumar Srikant	M. Akella	Aerospace Engineering
2007-2010	Lisa Ferguson	J. L. Ivy	Kinesiology and Health Education
2004-2009	Deanna Gates	J. Dingwell	Biomedical Engineering
2006-2007	Hyun Gu Kang	J. Dingwell	Kinesiology and Health Education

Doctoral Comprehensive Exam Committee Member

2023	Huiying Zhu (Chair)
2023	Mohsen Alighanbari (Chair)
2022	Xin Yu (Chair)
2021	Soroosh Sadeh (advisor H. Hsiao)
2020	Tim Lowe (Chair)
2020	Zhong Wang (Chair)
2019	Missy Schleicher (advisor L. Abraham)
2019	Woohyoung Jeon (Chair)
2019	Sz-Yan Wu (advisor J. Jensen)
2108	Josie Walker (advisor J. Jensen)
2018	Yi Ling Peng (Chair)
2017	Josie Walker (advisor J. Jensen)
2016	Matthew Tenan (Chair)
2015	Nicole Bonsack (advisor J. Dingwell)
2014	Mandy Salinas (advisor J. Dingwell)
2008	Joni Mettler (Chair)
2005	Barbara Doucet (Chair)
2005	C. Kevin Terry (Chair)

Masters Students Graduated

<u>Year</u>	<u>Name</u>	<u>Degree</u>	<u>Department</u>
2021-2023	Ariana Ramos	M.Ed.	Kinesiology and health Education
2021-2023	Vincent Hwang	M.Ed.	Kinesiology and health Education
2021-2023	Madyson Zamora	M.Ed.	Kinesiology and health Education
2021-2023	Chenyang Li	M.S.	Kinesiology and health Education
2021-2023	Jie Yang	M.S.	Kinesiology and health Education
2021-2023	Kainat Shahid	M.S.	Kinesiology and health Education
2021-2023	Ningzhen Zhao	M.S.	Kinesiology and health Education
2020-2022	Jordan Wasson	M.Ed.	Kinesiology and health Education
2020-2021	Josie Ferrandino	M.S.	Kinesiology and health Education
2019-2021	Gabby Kearney	M.Ed.	Kinesiology and health Education
2019-2021	Drew Morrison	M.S.	Kinesiology and health Education
2019-2021	Christina Mihova	M.S.	Kinesiology and health Education
2018-2020	Key Nahan	M.S.	Kinesiology and health Education
2017-2018	Robert Gregg	M.S.	Kinesiology and Health Education
2015-2018	J. Michael Harrison	M.S.	Kinesiology and Health Education
2014-2017	Soroosh Sadesh	M.S.	Kinesiology and Health Education
2014-2016	Carla Strohhofer	M.S.	Kinesiology and Health Education
2013-2015	Woohyoung Jeon	M.S.	Kinesiology and Health Education
2012-2014	Timothy Fleisher	M.S.	Kinesiology and Health Education
2011-2013	Brad Price	M.S.	Kinesiology and Health Education
2010-2012	Erica Zarzour	M.S.	Kinesiology and Health Education
2008-2011	Tamanna Shaikh	M.S.	Kinesiology and Health Education
2009-2011	Ryan Savard	M.S.	Kinesiology and Health Education
2008-2010	Yesha Parmar	M.S.	Kinesiology and Health Education
2008-2010	Kena Shah	M.S.	Kinesiology and Health Education
2005-2007	Pamela Painter	M.A.	Kinesiology and Health Education
2004-2007	Anckit Wadhwa	M.E.	Electrical and Computer Engineering

2006-2007	Sarah Keller	M.S.	Swiss Federal Institute of Technology
2004-2006	N. Colin Anderson	M.E.	Electrical and Computer Engineering
2004-2006	Maritha Indurthy	M.E.	Electrical and Computer Engineering
2005-2006	Camille Fillpot	M.A.	Curriculum and Instruction
2003-2004	Byung-Geun Jun	M.E.	Electrical and Computer Engineering

Masters Thesis/Report Reader – Students Graduated

<u>Year</u>	<u>Name</u>	<u>Advisor</u>	<u>Department</u>
2021	Troilyn Jackson	H. Hsiao	Kinesiology and Health Education
2020	Aaron Simmons	H. Hsiao	Kinesiology and Health Education
2012	Mandy Salinas	J. Dingwell	Kinesiology and Health Education
2008	Michelle Garel	J. Dingwell	Biomedical Engineering
2004	Kyle Vogue	J. Dingwell	Kinesiology and Health Education

DOCTORAL QUALIFYING EXAM COMMITTEE MEMBER

Institute for Neuroscience

2008 Kelly Tennant (advisor T. Jones)

College of Engineering

Department of Mechanical Engineering

2021 Kyoungsoo Kim (advisor J. Sulzer)
 2019 Kaci Madden (advisor A. Deshpande)

Department of Biomedical Engineering

2011 Subhamoy Das
 2010 Doug Yeager
 2010 Srimahitha Kaliki

DIRECTOR OF RESEARCH INTERNSHIP

University of Texas at San Antonio

Department of Kinesiology, Health and Nutrition

2015-2016 Gabriel Alvarez

ORGANIZED COURSE INSTRUCTION

Course Director
Department of Kinesiology and Health Education
University of Texas at Austin

2019-present KIN 397/197 MCRS Seminar
2016-present KIN424k Applied Human Anatomy
2011-present KIN 336 Neuromuscular Control
2004-present KIN 395 Neuromuscular Aspects of Fatigue and Training
2003-present KIN 395 Motor Control: Neuromuscular Basis
2022 UT Summer Discovery Neuroscience
2015-2016 KIN324 Applied Human Anatomy
2011-2015 KIN 386 Research Methods 1: Proposal Writing
2003-2010 KIN 336 Motor Control
KIN315 Motor Learning
KIN 195 Seminar
KIN 395 Motor Control: Performance and Learning
2003-2005 KIN 335 Motor Learning

2001-2002
Teaching Assistant
School of Kinesiology and Health Science
York University

Kinesiology 3020: Skilled Performance and Motor Learning
Kinesiology 4500: Neural Control of Movement
Kinesiology 3645: Physical Activity and Health Promotion
Kinesiology 2000: Psychology of Physical Activity
Kinesiology 4445: Physiology of Fatigue

2001-2002
Seminar Instructor
Canadian Memorial Chiropractic College

Physiology 2204: Systems Physiology

Teaching Assistant
Departments of Physical Therapy, Kinesiology, Zoology and
Neuroscience, University of Western Ontario

1997-1998 Neuroscience 500: Principles in Neuroscience
Biology 271A: Vertebrate Biology

1996-1997 Collaborative Multimedia Project, Depts. of Kinesiology and Part-time and Continuing Education

1995-1996 Physical Therapy 491y: Physical Therapy Project
 Physical Therapy 442a: Exercise Physiology
 Physical Therapy 334a/b: Normal Development and Aging
 Physical Therapy 330: Physical Therapy in Neurology

1994-1995 Physical Therapy 442a: Exercise Physiology
 Physical Therapy 334a/b: Normal Development and Aging

UT Austin Summer Discovery Program for High School Students

2022 – present Neuroscience

Columbus High School AP Research, Columbus, Georgia

2023-present Expert Advisor

TRAINING IN TEACHING

<u>Year</u>	<u>Training</u>	<u>Department/College</u>	<u>University</u>
2020	Office of Innovation and Instruction Working Group	College of Education	University of Texas at Austin
2020	Eyes on Teaching	Faculty Innovation Center	University of Texas at Austin
2019	Teachers Learning Together	Kinesiology and Health Education	University of Texas at Austin
2017	Writing Flag Faculty Retreat	School of Undergraduate Studies	University of Texas at Austin
2016	Teachers Learning Together	Department of Kinesiology and Health Education	University of Texas at Austin
2013	Writing Instructor Workshop: Building Student Writing Skills via the Long Paper	School of Undergraduate Studies	University of Texas at Austin
2012	Writing Flag Courses: Integrating Writing with Content	School of Undergraduate Studies	University of Texas at Austin

2005	Teaching Workshop	Center for Women's and Gender Studies	University of Texas at Austin
2005	Faculty Colloquium: New Concepts in Teaching and Learning	Center for Teaching Effectiveness	University of Texas at Austin
2004	Blackboard Seminar	DIIA	University of Texas at Austin
1996/1997	TA Training Program for Graduate Students Certificate	Faculty of Graduate Studies	The University of Western Ontario

INTERNATIONAL COMMITTEES

2023-present **Program Committee, American College of Sports Medicine**

STATE COMMITTEES

2024 **Judge for the onsite Student Research Development Award presentations, American College of Sports Medicine Texas Chapter**

UNIVERSITY COMMITTEES

University of Texas at Austin

2023-2026 **C-11 Research Policy Committee**

2022-present **Faculty Title IX Advisor, University Compliance Services**

2018-present **UT CARE, Member**

2021-2023 **Neurofunction Recovery DOWG, Member**

2021
2019-2021 **UT CARE Spring Symposium, Poster Judge
Spinal Cord Injury Research Interest Group, Executive Member**

2016-2018 **Committee on Financial Aid to Students**

2015-2018 **Recruitment and Retention Committee**

2013-2014 **B-1 Committee on Financial Aid to Students**

2010-2012	Faculty Grievance Committee
2005-2008	Member, Imaging Research Center
2004-2006	University Library Committee
<u>Institute for Neuroscience</u>	
2019 – 2019	Member, Graduate Studies Committee
<u>College of Engineering</u> <u>Department of Biomedical Engineering</u>	
2003-2016	Graduate Studies Committee
<u>College of Education</u>	
2022-2023	Research Committee
2020-2021	Committee for Faculty Awards
2017-2018	Office of Instructional Innovation Faculty Advisory Committee
<u>Department of Kinesiology and Health Education</u>	
2023-present	Undergraduate Advisory Committee
2022-present	Graduate Studies Council, Associate Chair
2019-present	Management Team
2019-present	Movement and Cognitive Rehabilitation Science Graduate Program Search Committee, Chair
2017-present	On-line Masters Option III Committee
2009-present	Budget Council
2023	Promotion and Tenure, Sophie Lalande - Teaching
2022-2023	Promotion and Tenure, Miguel Pinedo - Teaching
2022-2023	Curricular Review Committee
2022-2023	Tenure-Track Merit Evaluation - Service

2022-2023	Graduate Studies Council, Assistant Chair
2021-2022	Rehabilitation and Movement Science Graduate Program Search Committee, Chair
2020-2022	Strategic Planning Committee, Research
2018-2022	SACS, Assessment Coordinator
2003-2022	Graduate Studies Council
2020-2021	KHE Graduate Handbook
2021	Biomechanics Instructor and Core Lab Director Search Committee, Chair
2020-2021	Strategic Planning Committee, Research, Pre/Post Award Ad Hoc committee, Chair
2020-2021	3rd Year Review Committee, Chair (Hsiao)
2019-2020	3rd Year Review Committee (Pinedo)
2019-2020	Comprehensive Review Committee (Loukas, Pasch, Tanaka Todd)
2019-2020	Subvention Fund: Recruiting
2018-2019	Rehabilitation and Movement Science Graduate Program Search Committee, Chair
2017-2018	Exercise Science Faculty Search Committee
2017-2018	Merit Evaluation, Service
2011-2018	Exercise Science Graduate Program Committee
2016-2017	Exercise Science Faculty Hire Search Committee
2015-2017	Subvention Fund: Continuing
2015-2016	Department Review Committee for Human Subjects Research
2014-2016	Exercise Science Subcommittee, graduate student admissions
2015-2016	Merit Evaluation, Chair

2015	Exercise Science Ad Hoc Committee, Undergraduate Curriculum
2014-2015	Merit Evaluation, Service, Chair
2014-2015	Undergraduate Advisory Committee Ad Hoc Committee, Senior Evaluations
2014	Budget Council Ad Hoc Committee for Mike Sanders, Service
2014	Budget Council Ad Hoc Committee for Tommy Hunt, Service
2014	Budget Council Ad Hoc Committee for Keryn Pasch, Service
2012-2015	Subvention Fund: Recruiting Committee, Co-Chair
2012-2013	Department Teaching Award
2009-2015	Undergraduate Major Advisory Committee, Exercise Science, Chair
2008-2015	Undergraduate Advisory Committee
2003-2011	Movement Science Graduate Program Committee
2012-2013	Subvention Fund: Continuing Committee
2005-2012	General Masters Program
2011-2012	Budget Council Ad-Hoc committee for Graduate Program Advertising
2006-2012	Department Review Committee for Human Subjects Research
2010-2011	Merit Evaluation, Scholarship
2009-2010	Health Promotion Ad-Hoc Faculty Search Committee
2008-2010	Grant Writing Workshop, Chair
2005-2009	Research Ad-hoc Committee
2008-2009	Exercise Physiology Search Committee
2006-2007	Grant Writing Workshop

2003-2007	Merit Evaluation Committee, Service
2005-2006	Dean's Fellows
2003-2005	Student Travel Award Committee

University of Western Ontario

<u>Years</u>	<u>Title</u>	<u>Organization</u>
1997-1998	Senator	Graduate Students at Large
1997-1998	Vice President, Academic	Society for Graduate Students
1996-1997	Department Representative	Graduate Program in Neuroscience, Institute for Neuroscience

COMMUNITY SERVICE

<u>Years</u>	<u>Title</u>	<u>Organization</u>
2022-2023	Bookstore Clerk	Kingdom of God Christian Center, Round Rock, TX
2016-2019	Senior Olympics	Windsor Nursing Home, Austin, TX
2010-2012	Councilor's Office	Anderson High School, Austin Independent School District

TRAINING IN SERVICE

<u>Year</u>	<u>Name of Workshop</u>	<u>Department/School</u>
2023	COE leadership training on Supreme Court decision banning race-based admissions	Vice President of Legal Affairs, UT Austin
2022 & 2023	The University of Texas at Austin Annual Title IX Training	University Compliance Services
2022 & 2023	Systemwide Title IX Annual Training	The University of Texas System

2022	Child Protection Training	UT Learn Administration
2021	Faculty Search Committee Workshop	UT Learn Administration
2020	Exploring the Research Lifecycle of an NIH Grant with UT Library Research Support	Office of the Vice President for Research
2019	New Academic Leaders Workshop	Office of the Executive Vice President and Provost
2019	Assessment Reflection Summary Workshop	Office of the Executive Vice President and Provost
2018	Faculty Search Committee Workshop	Office of the Executive Vice President and Provost
2018	TracDat User Training, Institutional Accreditation and Effectiveness	Office of the Executive Vice President and Provost
2018	Introduction to Institutional Assessment	Office of the Executive Vice President and Provost
2017	Faculty Excellence and Diversity: Recruitment Strategies for Search Committees Workshop	University of Texas at Austin