

Susan Foreman Saliba, PhD, ATC, MPT, FNATA

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EMPLOYMENT:

Professor, Curry School of Education, Department of Kinesiology; Director of the Undergraduate Major in Kinesiology; Associate Professor, Orthopaedic Surgery, University of Virginia 2017-present.

Associate Professor, Curry School of Education, Department of Kinesiology; Director of the Undergraduate Major in Kinesiology; Associate Professor, Orthopaedic Surgery, University of Virginia 2012-2017.

Assistant Professor, Curry School of Education. Department of Human Services, Kinesiology Program Area; Assistant Professor, Department of Physical Medicine & Rehabilitation; Assistant Professor, Orthopaedic Surgery, University of Virginia 2006 – 2012.

Senior Associate Athletic Trainer; Associate Professor Curry School of Education; Assistant Professor, Orthopaedic Surgery: University of Virginia. 1999-2006.

Associate Athletic Trainer; Assistant Professor Curry School of Education; Clinical Instructor, Orthopaedic Surgery: University of Virginia. 1995-1999.

Assistant Athletic Trainer; Assistant Professor Curry School of Education; Clinical Instructor, Orthopaedic Surgery: University of Virginia. 1989-1995.

EDUCATION

- ◆ University of Virginia, Sports Medicine, PhD January, 1999.
Dissertation: The effect of phonophoresis on the absorption of dexamethasone in the presence of an occlusive dressing.
- ◆ Hahnemann University Physical Therapy Program, MPT, 1989.
Thesis: Eccentric exercise for Achilles tendonopathy.
- ◆ University of Virginia, Athletic Training, MEd, 1987
Thesis: Torque Acceleration Energy as a measure of isokinetic power.
- ◆ University of Virginia, Health & PE/Sports Medicine, BSEd, 1986

CERTIFICATION

- ◆ Licensed Athletic Trainer – Virginia (0126000442)
- ◆ Board of Certification; Certified Athletic Trainer (30573)
- ◆ Licensed Physical Therapist – Virginia (2305003663)
- ◆ United States Weight Lifting Club Coach

- ◆ Cardiopulmonary Resuscitation Instructor

EXPERIENCE

Academic

- ◆ Faculty Representative to Undergraduate Student Opportunities in Academic Research (USOAR). Inaugural class appointed by Assoc Provost Maurie McInnis; supervised by Brian Cullaty, Undergraduate Excellence. 2014-present.
- ◆ Advisor and Director of the BSEd Major in Kinesiology, University of Virginia, 2006 –present.
- ◆ Curry School Representative to the Provost's Committee on Undergraduate Academic Policy at the University of Virginia, 2012-present
- ◆ NATA Foundation; Free Communications Abstract Reviewer, 2006-2009
- ◆ Clinical Instructor/Associate Professor, Department of Orthopedic Surgery, University of Virginia, 1994-present.
- ◆ Adjunct Faculty, Kaohsiung Medical University, Taiwan. 2002-2008.
- ◆ Adjunct Instructor, James Madison University, Harrisonburg, VA, 1992- 1994.
- ◆ Faculty Coordinator for Pre-Physical Therapy Association, University of Virginia. 1989-present
- ◆ Virginia Representative of the District 3 (NATA) Research Awards Committee, 1992- 2000.

Teaching Assignments:

- ◆ University of Virginia:
 - ◆ KINE 6700 Diagnostic Imaging and Pharmacology in Athletic Training 2018.
 - ◆ KINE 5725 Rehabilitation in Athletic Training 2017- present
 - ◆ KINE 2000 Introduction to Kinesiology; 2014-present
 - ◆ KINE 4600 Athletic Injuries; 2005-present
 - ◆ EDHS 7540; KINE 7630 Therapeutic Modalities in Sports Medicine, 1988-present
 - ◆ EDHS 3500/5500 Functional Movement Screens, J Term; 2013
 - ◆ EDHS/KINE 4670/5670; KINE 4670/5670 Art & Science of Sports Medicine, 2009-present
 - ◆ EDHS/KINE 7410 Pathophysiology and Rehabilitation 2006, to 2014
 - ◆ EDHS 7580 Anatomical Bases of Sports Medicine (Gross Anatomy Dissection Lab) 2007 to 2010
 - ◆ EDHS/KINE 8500 Supervised Research, 2007-present
 - ◆ EDHS 8410 Orthopedic Basis of Sports Medicine 2006 to 2008
 - ◆ EDHS 4460 Practicum in Sports Medicine 2005-2015
 - ◆ EDHS 5440; KINE 4600 Athletic Injuries, 1989-96; 2009-present
 - ◆ EDHS 4510 Emergency Medical Care, 1987
- ◆ Updates in Sports Injuries Teleconference, 1992, 1993
- ◆ Service PE Courses: Tennis, Racquetball, Volleyball, 1986-87

Clinical Education:

- ◆ Clinical Supervisor, Physical Therapy and Athletic Training students; Medical Residents, 1994-2006.
- ◆ Clinical Instructor, Physical Therapy Students (1989-2000):
 - ◆ Shenandoah University
 - ◆ Oklahoma University
 - ◆ University of Southern California
 - ◆ University of Indianapolis
 - ◆ University of Delaware
 - ◆ University of South Dakota
- ◆ Clinical Instructor, Orthopaedic Residents and Sports Medicine Fellows; 1994-2006.
- ◆ Sports Medicine Conference Co-Coordinator, 1986-2002.
- ◆ Instructor, CPR at Federal Executive Institute, Charlottesville, VA, 1989-1992.

Clinical Experience

- ◆ Senior Associate Athletic Trainer / Physical Therapist, University of Virginia Athletic Department, 1989-2005: Assignments: Men's Basketball, Men's Soccer, Women's Soccer, Field Hockey, Women's Lacrosse.
 - ◆ National Champions, Men's Soccer; 1991, 1992, 1993, 1994
 - ◆ Final Four, Men's Soccer, 1995, 1997
 - ◆ Final Four, Women's Lacrosse, 1998, 1999
 - ◆ Final Four, Women's Basketball, 1990, 1991, 1992
 - ◆ Sugar Bowl, Assistant Athletic Trainer; 1991
- ◆ Participant in National Girls and Women in Sports Day 1993.
- ◆ Physical Therapy Clinical Internships, 1988-1989:
 - ◆ Blue Ridge Rehabilitation Hospital, Charlottesville, VA
 - ◆ Hughston Sports Medicine Clinic / Hospital, Columbus, GA
 - ◆ Norfolk General Hospital, Norfolk, VA
- ◆ Graduate Assistant Athletic Trainer, University of Virginia, 1986-87.
- ◆ Graduate Assistant Strength and Conditioning Coach, 1986-87.
- ◆ Athletic Trainer, Summer Sports Camps, University of Virginia, 1985-92.
- ◆ Athletic Trainer, AAU and AAA High School Boys Basketball Tournaments, 1987

PUBLICATIONS:

Refereed Journals

Published:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1Jkprzi9upwk9/bibliography/53219699/public/?sort=date&direction=ascending>.

1. Glaviano NR, Saliba S. [Relationship Between Lower-Extremity Strength and Subjective Function in Individuals With Patellofemoral Pain](#).cJournal of sport rehabilitation. 2018; 27(4):327-333.

2. Pietrosimone B, Luc BA, Duncan A, Saliba SA, Hart JM, Ingersoll CD. [Association Between the Single Assessment Numeric Evaluation and the Western Ontario and McMaster Universities Osteoarthritis Index](#). Journal of athletic training. 2017; 52(6):526-533.
3. Norte GE, Hertel JN, Saliba SA, Diduch DR, Hart JM. [Quadriceps and Patient-Reported Function in ACL-Reconstructed Patients: A Principal Component Analysis](#). Journal of sport rehabilitation. 2018; :1-9.
4. Glaviano NR, Baellow A, Saliba S. [Physical activity levels in individuals with and without patellofemoral pain](#). Physical therapy in sport : official journal of the Association of Chartered Physiotherapists in Sports Medicine. 2017; 27:12-16.
5. Feger MA, Hart JM, Saliba S, Abel MF, Hertel J. [Gait training for chronic ankle instability improves neuromechanics during walking](#). Journal of orthopaedic research : official publication of the Orthopaedic Research Society. 2018; 36(1):515-524.
6. Weiss A, Glaviano NR, Resch J, Saliba S. [Reliability of a novel approach for quadriceps motor point assessment](#). Muscle & nerve. 2018; 57(1):E1-E7.
7. Slater LV, Simpson AS, Blemker SS, Hertel J, Saliba SA, Weltman AL, Hart JM. Biomechanical adaptations during running differ based on type of exercise and fitness level. Gait & posture 60:35-40. 2018
8. Fraser JJ, Koldenhoven RM, Saliba S, Hertel J. Reliability of ankle-foot morphology, mobility, strength and motor performance measures. International journal of sports physical therapy. 12:7:1134. 2017.
9. Mangum LC, Henderson K, Murray KP, Saliba SA. Ultrasound Assessment of the Transverse Abdominis During Functional Movement. *J Ultrasound in Medicine*. 10/27/2017. DOI: 10.1002/jum.14466
10. Glaviano NR, Baellow A, **Saliba S**. [Physical activity levels in individuals with and without patellofemoral pain](#). Phys Ther Sport. 2017 Jul 18;27:12-16. doi: 10.1016/j.ptsp.2017.07.002. [Epub ahead of print] PubMed PMID: 28780340.
11. Norte GE, Hertel JN, **Saliba SA**, Diduch DR, Hart JM. [Quadriceps and Patient Reported Function in ACL Reconstructed Patients: A Principal Component Analysis](#). J Sport Rehabil. 2017 Jul 17:1-26. doi: 10.1123/jsr.2017-0080. [Epub ahead of print] PubMed PMID: 28714825.
12. Feger MA, Hart JM, **Saliba S**, Abel MF, Hertel J. [Gait training for chronic ankle instability improves neuromechanics during walking](#). J Orthop Res. 2017 Jun 27. doi: 10.1002/jor.23639. [Epub ahead of print] PubMed PMID: 28653780.

13. Weiss A, Glaviano NR, Resch J, **Saliba S**. [Reliability of a novel approach for quadriceps motor point assessment](#). Muscle Nerve. 2017 Jun 20. doi: 10.1002/mus.25728. [Epub ahead of print] PubMed PMID: 28632896.
14. Pietrosimone B, Luc BA, Duncan A, **Saliba SA**, Hart JM, Ingersoll CD. [Association Between the Single Assessment Numeric Evaluation and the Western Ontario and McMaster Universities Osteoarthritis Index](#). J Athl Train. 2017 Jun 2;52(6):526-533. doi: 10.4085/1062-6050-52.5.07. PubMed PMID: 28653867; PubMed Central PMCID: PMC5488843.
15. Glaviano NR, **Saliba S**. [Relationship Between Lower Extremity Strength and Subjective Function in Individuals With Patellofemoral Pain](#). J Sport Rehabil. 2017 May 17;1-25. doi: 10.1123/jsr.2016-0177. [Epub ahead of print] PubMed PMID: 28513275.
16. Schurr SA, Marshall AN, Resch JE, **Saliba SA**. [two-Dimensional Video Analysis Is Comparable To 3d Motion Capture In Lower Extremity Movement Assessment](#). Int J Sports Phys Ther. 2017 Apr;12(2):163-172. PubMed PMID: 28515970; PubMed Central PMCID: PMC5380858.
17. Feger MA, Glaviano NR, Donovan L, Hart JM, **Saliba SA**, Park JS, Hertel J. [Current Trends in the Management of Lateral Ankle Sprain in the United States](#). Clin J Sport Med. 2017 Mar;27(2):145-152. doi: 10.1097/JSM.0000000000000321. PubMed PMID: 27347860.
18. Glaviano NR, **Saliba S**. [Impairment based rehabilitation for patellofemoral pain patients](#). Phys Sportsmed. 2016 Sep;44(3):311-23. doi: 10.1080/00913847.2016.1200443. Epub 2016 Jun 23. Review. PubMed PMID: 27311015.
19. Donovan L, Hart JM, **Saliba S**, Park J, Feger MA, Herb CC, Hertel J. [Effects of ankle destabilization devices and rehabilitation on gait biomechanics in chronic ankle instability patients: A randomized controlled trial](#). Phys Ther Sport. 2016 Sep;21:46-56. doi: 10.1016/j.ptsp.2016.02.006. Epub 2016 Feb 27. PubMed PMID: 27428534.
20. Kim KM, Hart JM, **Saliba S**, Hertel J. Modulation of the fibularis longus Hoffman Reflex and postural instability associated with chronic ankle instability. *Journal of Athletic Training*. 2016;51(10):000-000. Doi: 10.4085/1062-6050-51.10.5
21. Feger MA, Snell S, Handsfield GG Blemker SS, Wombacher E, Fry R, Hart JM, **Saliba SA**, Park JS, Hertel J. Diminished foot and ankle muscle volumes in young adults with chronic ankle instability. *Orthopaedic Journal of Sports Medicine*. 2016;4(6):2325967116653719.

22. Mangum LC, Sutherlin MA, Saliba SA, Hart JM. [Reliability of Ultrasound Imaging Measures of Transverse Abdominis and Lumbar Multifidus in Various Positions.](#) *PM & R.* 2016; 8(4):340-347.
23. Glaviano NR, **Saliba S.** Impairment based rehabilitation for patellofemoral pain patients. *Phys Sportsmed.* June 2016:1-13.
24. Feger MA, Snell S, Handsfield GG, Blemker SS, Wombacher E, Frye R, Hart JM, **Saliba SA**, Park JS, Hertel J. Diminished Foot and Ankle Muscle Volumes in Young Adults with Chronic Ankle Instability. *Orthopaedic Journal of Sports Medicine.* 2016;4(6):2325967116653719. doi:10.1177/2325967116653719.
25. Glaviano NR, **Saliba SA.** Immediate Effect of Patterned Electrical Neuromuscular Stimulation on Pain and Muscle Activation in Individuals With Patellofemoral Pain. *Journal of Athletic Training.* 2016;51(2):118-128. doi:10.4085/1062-6050-51.4.06.
26. Herb CC, Patacky T, Hart J, Saliba S, Blemker S, Hertel J. 38 Gait kinematics and kinetics in patients with and without chronic ankle instability: a statistical parametric mapping analysis. *Br J Sports Med.* 2015;49(Suppl 1):A15-A16. doi:10.1136/bjsports-2015-095573.38.
27. Donovan L, Hart JM, **Saliba S**, Park J, Feger MA, Herb CC, Hertel J. Rehabilitation for Chronic Ankle Instability With or Without Destabilization Devices: A Randomized Controlled Trial. *Journal of Athletic Training.* 2016;51(3):233-251. doi:10.4085/1062-6050-51.3.09.
28. Donovan L, Hart JM, **Saliba S**, Park J, Feger MA, Herb CC, Hertel J. Effects of ankle destabilization devices and rehabilitation on gait biomechanics in chronic ankle instability patients: a randomized controlled trial. *Physical Therapy in Sport.* 2016;21:46-56. doi:10.1016/j.ptsp.2016.02.006.
29. Donovan L, Feger MA, Hart JM, **Saliba S**, Park J, Hertel J. Effects of an auditory biofeedback device on plantar pressure in patients with chronic ankle instability. *Gait & Posture* 2016;44:29-36. doi:10.1016/j.gaitpost.2015.10.013
30. Koldenhoven RM, Feger MA, Fraser JJ, Saliba S, Hertel J. Surface electromyography and plantar pressure during walking in young adults with chronic ankle instability. *Knee Surgery, Sports Traumatology, Arthroscopy,* 2016;24(4):1060-1070. doi:10.1007/s00167-016-4015-3.
31. Glaviano NR, **Saliba S.** Can the use of neuromuscular electrical stimulation be improved to optimize quadriceps strengthening? *SportsHealth: A Multidisciplinary Approach.* 8(1), 79-85, 2016.

32. Glaviano NR, Huntsman S, Dembeck A, Hart JM, **Saliba S**. Improvements in kinematics, muscle activity and pain during functional tasks in females with patellofemoral pain following a single patterned electrical stimulation treatment. *Clinical Biomechanics* 2016;32:20-27. doi:10.1016/j.clinbiomech.2015.12.007.
33. Feger MA, **Glaviano NR**, Donovan L, Hart JM, Saliba S, Park JS, Hertel J. Current trends in the evaluation, treatment, and physical therapy referral patterns following lateral ankle sprains in the United States. *Clinical Journal of Sports Medicine: CJSM-15-270* 2016.
34. Feger M, Goetschius J, Love H, **Saliba S**, Hertel J. Electrical stimulation does not improve function, edema or pain following acute lateral ankle sprains: A systematic review. *Journal of Athletic Training*. 2015
35. Mangrun LC, Sutherlin MA, **Saliba SA**, Hart JM. Reliability of ultrasound imaging measures of transverse abdominis and lumbar Multifidus in various positions. *Physical Medicine and Rehabilitation*. 2015. doi:10.1016/j.pmrj.2015.09.015.
36. Glaviano NR, Kew M, Hart JM, **Saliba S**. Demographic and epidemiological trends in patellofemoral pain. *International Journal of Sports Physical Therapy* 10(3), 281-290. 2015.
37. Norte GE, **Saliba SA**, Hart JM. Immediate effects of therapeutic ultrasound on quadriceps spinal reflex excitability in patients with knee injury. *Archives of Physical Medicine and Rehabilitation*. 96(9), 1591-1598, 2015.
38. Kim KM, Hart JM, **Saliba SA**, Hertel J. Relationships between self-reported ankle function and modulation of Hoffmann reflex in patients with chronic ankle instability. *Phys Ther Sport*. 2016;17:63-68. doi:10.1016/j.ptsp.2015.05.003
39. Muething A, Acocello S, Pritchard KA, Brockmeier SF, Saliba SA, Hart JM. Shoulder-muscle activation in individuals with previous shoulder injuries. *Journal of Sport Rehabilitation*. 24 (3) 278-85. 2015.
40. Cross KM, **Saliba SA**, Conaway M, Gurka KK, Hertel J. Days to return to participation after a hamstrings strain among American collegiate soccer players. *Journal of Athletic Training*. 50(7), 733-741. 2015.
41. Kuenze CM, Foot N, **Saliba SA**, Hart JM. Drop landing performance and knee-extension strength after anterior cruciate ligament reconstruction. *Journal of Athletic Training*. 50(6), 596-602. 2015.
42. Kuenze CM, Hertel J, Weltman A, Diduch D, **Saliba SA**, Hart J. Persistent neuromuscular and corticomotor quadriceps asymmetry after anterior cruciate ligament reconstruction. *Journal of Athletic Training* 50(3), 303-312. 2015.

43. Selkow NM, Herman DC, Liu Z, Hertel J, Hart JM, **Saliba SA**. Blood flow after Exercise-Induced Muscle Damage. *Journal of Athletic Training* 50(4), 400-406, 2015.
44. Kuenze C, Hertel J, **Saliba S**, Diduch D, Weltman A, Hart JM. Clinical thresholds for quadriceps assessment following ACL reconstruction. *Journal of Sport Rehab.* 24(1), 36-46, 2015.
45. Mettler A, Chinn L, **Saliba S**, McKeon P, Hertel J. Balance training and center of pressure location in participants with chronic ankle instability. *Journal of Athletic Training* 50(4), 343-349, 2015
46. Kim KM, Hart JM, **Saliba SA**, Hertel J. Effects of focal ankle joint cooling on unipedal static balance in individuals with and without chronic ankle instability. *Gait and Posture.* 41(1), 282-287. 2015.
47. Glaviano NR, Benson S, Goodkin HP, Broshek DK, **Saliba S**. Baseline SCAT2 assessment of healthy young student-athletes: preliminary evidence for the child-SCAT3 in children younger than 13 years. *Clin Journal of Sports Medicine.* 25(4): 373-9. 2015.
48. Feuerherd R, Sutherlin MA, Hart JM, **Saliba SA**. Reliability of and the relationship between ultrasound measurement and three clinical assessments of humeral torsion. *International Journal of Sports Physical Therapy* 9(7), 938. 2014
49. Kuenze C, Hertel J, Weltman A, **Saliba S**, Hart JM. Jogging biomechanics after exercise in individuals with ACL-Reconstructed knees. *Med Sci Sport Exercise.* 46(6):1067-1076. 2014.
50. Chinn L, Dicharry J, Hart J, **Saliba SA**, Wilder R, Hertel J. Gait kinematics after taping in subjects with chronic ankle instability. *Journal of Athletic Training,* 49(3):322-330. 2014.
51. Partner S, Sutherlin MA, Acocello S, **Saliba SA**, Magrum EM, Hart JM. Changes in muscle thickness after exercise and biofeedback in people with low back pain. *J Sport Rehab* 23(4):307-18. 2014.
52. Kuenze CM, Hertel J, Weltman A, Diduch DR, **Saliba SA**, Hart JM. Neuromuscular asymmetry following return to activity in individuals with a history of ACL reconstruction. *Medicine Science in Sport and Exercise* 46(5), 207. 2014

53. Houston MN, Cross KM, **Saliba SA**, Hertel J. Injury related fear in acutely injured interscholastic and intercollegiate athletes. *Athletic Training & Sports Health Care* 6(1):15-23. 2014
54. Glaviano NR, Langston, W, Hart JM, **Saliba S**. Influence of Patterned Electrical Neuromuscular Stimulation of Quadriceps Activation in Individuals with Knee Joint Injury. *International Journal of Sport Physical Therapy*. 2014;9(7):915-923
55. Pietrosimone BG, **Saliba SA**, Thomas AC, Ingersoll CD. Association between Quadriceps Strength and Self-Reported Physical Activity in People with Knee Osteoarthritis. *International Journal of Sports Physical Therapy* 9 (3), 320. 2014.
56. Goetschius J, Kuenze CM, **Saliba SA**, Hart JM. Reposition Acuity and Postural Control After Exercise in ACL Reconstructed Knees. *Med Sci Sports Exerc*.45 (12), 2314-2321. 2014.
57. Acocello S, Broshek DK, **Saliba S**. Inter-rater and intra-rater reliability of cerebral blood flow measures obtained using the brain acoustic monitor. *J of Neurosci Meth*. 2014; 221, 85-91.
58. Pritchard KA, **Saliba SA**. Should athletes return to activity after cryotherapy? *J Athl Train*. 2014; 49(1):95-96. PubMed Identification: 23724775.
59. Swift D, Weltman JY, Patrie J, **Saliba S**, Gaesser G, Barrett EJ, Weltman A: Predictors of improvement in endothelial function after exercise training in a diverse sample of Postmenopausal Women. *Journal of Women's Health* 23(3): 260-6. 2014.
60. Croy T, Koppenhaver S, **Saliba S**, Hertel J. Anterior Talocrural Laxity: Diagnostic accuracy of the anterior drawer test of the ankle. *J Orthopedic and Sports Physical Therapy*. 43(12), 911-919. 2013.
61. Kim KM, Hart JM, **Saliba S**, Wilder R, Hertel J: Ankle cryotherapy does not affect postural control in patients with chronic ankle instability. *Medicine Science in Sports and Exercise* 45(5), 55-55. 2013.
62. Kuenze C, Hertel J, Weltman A, Diduch DR, **Saliba S**, Hart JM. Jogging biomechanics after exercise in individuals with ACL – reconstructed knees. *Medicine and Science in Sports and Exercise*. (epub). 2013.
63. Croy T, **Saliba S**, Saliba E, Anderson MW, Hertel J: Talofibular interval changes after acute ankle sprain: a stress ultrasonography study. *J Sport Rehabilitation* 22(4), 2013.

64. Selkow NM, Herman DC, Liu Z, Hertel J, Hart JM, **Saliba SA**. Microvascular perfusion increases after eccentric exercise of the gastrocnemius. *Journal of Ultrasound in Medicine*. 32(4), 653-658. 2013.
65. Selkow NM, Herman DC, Liu Z, Hertel J, Hart JM, **Saliba SA**. Microperfusion changes in the contralateral gastrocnemius following unilateral eccentric exercise. *Journal of Novel Physiotherapies*. 2013.
66. Cross, KM, Gurka KK, **Saliba S**, Conaway M, Hertel J. A comparison of hamstring strain injury rates between male and female intercollegiate soccer athletes. *American Journal of Sports Medicine* 41(4), 742-748. 2013
67. Cage SA, Rupp KA, Castel JC, Saliba EN, Hertel J, **Saliba SA**. Relative acoustic transmission of topical preparations used with therapeutic ultrasound. *Archives of Physical Medicine and Rehabilitation*. 2013. 94 (11), 2126-2130.
68. Cross KM, Saliba S, Hertel J. Hamstring strain: Issues facing collegiate athletes. *Lower Extremity Review*. 2013.
69. Love HN, Pritchard KA, Hart JM, **Saliba SA**. Cryotherapy Effects, Part 1: Comparison of Skin Temperature and Patient-Reported Sensation for Various Modes of Administration. *International Journal of Athletic Training and Therapy*. 2013; 18(5): 22-25.
70. Cataldi JK, Pritchard KA, Hart JM, **Saliba SA**. Cryotherapy Effects, Part 2: Time to Numbness Onset and Numbness Duration. *International Journal of Athletic Training and Therapy*. 2013; 18(5): 26-28.
71. Sims J, Cosby N, Hertel J, Saliba EN, **Saliba S**: Exergaming and static postural control in individuals with a history of lower limb injury. *Journal of Athletic Training*. 48 (3), 314-325, 2013.
72. Warner B, Kim KM, Hart JM, **Saliba SA**: Superficial heat to the knee does not affect quadriceps function in individuals with quadriceps inhibition. *J Sport Rehab*. 22:93-99, 2013.
73. Guthrie RJ, Grindstaff TL, Croy T, Ingersoll CD, **Saliba SA**. The effect of traditional bridging or sling bridging exercise on transversus abdominis thickness ratio in individuals with low back pain. *Journal of Sport Rehabilitation*. 21(2):151-60, 2012.
74. Grooms DR, Grindstaff TL, Croy T, Hart JM, **Saliba SA**. Clinimetric Analysis of Pressure Biofeedback and Transversus Abdominis Function in Individuals With Stabilization Classification Low Back Pain. *The Journal of Orthopaedic and Sports Physical Therapy*. Nov 16 2012 epub.

75. Roberts D, Kuenze C, **Saliba S**, Hart J: Accessory muscle activation during the superimposed burst technique. *Journal Electromyography and Kinesiology*. 22(4):540-5, 2012.
76. Pietrosimone B, **Saliba S**: Change in quadriceps activation predicts changes in strength after exercise in patients with knee osteoarthritis. *Medicine and Science in Sport and Exercise*. 44, 101-101. 2012.
77. Pietrosimone B, **Saliba S**: Changes in Voluntary Quadriceps Activation Predict Changes in Quadriceps Strength After Therapeutic Exercise in Patients with Knee Osteoarthritis. *Knee*. 19(6):939-43, 2012.
78. Himes M, Selkow N, Hart J, **Saliba S**. Transversus abdominis activation during a side bridge extension progression is similar in people with recurrent low back pain and healthy controls. *Journal of Strength and Conditioning Research* 26(11):3106-12, 2012.
79. Grindstaff T, **Saliba S**: Avoiding Manuscript Mistakes. *International Journal of Sports Physical Therapy*, 7(5) 518. 2012 *invited manuscript
80. Rupp K, Selkow N, Weltman A, **Saliba S**: Cold water immersion has no effect on repeated maximal performance in collegiate soccer players. *Journal of Strength and Conditioning Research*. 26(8):2043-50. 2012
81. Selkow NM, Day C, Liu Z, Hart JM, Hertel J, **Saliba SA**. Microvascular perfusion and intramuscular temperature of the calf during cooling. *Med Sci Sports Exerc*. 44(5):850-6. 2012
82. Croy T, **Saliba S**, Saliba EN, Anderson M, Hertel J: Differences in lateral ankle laxity measured via stress ultrasonography in chronic ankle instability, ankle sprain copers, and healthy individuals. *J Orthop Sports Phys Ther*. 42 (7), 593. 2012
83. Rupp KA, Herman DC, Hertel J, **Saliba SA**. Intramuscular temperature changes during and after two different cryotherapy interventions in healthy individuals. *J Orthop Sports Phys Ther*. 42 (8), 731-737. 2012
84. Chon SC, You JH, **Saliba S**. Cocontraction of Ankle Dorsiflexors and Transversus Abdominis Function in Patients With Low Back Pain. *Journal of Athletic Training*. 47 (4), 379-389. 2012
85. Newman T, Croy T, Hart J, **Saliba S**: The Effects Of Prophylactic Ankle Bracing On Dynamic Reach Distance And Obstacle Course Performance In Military Cadets. *Military Medicine* 177 (5), 567-572. 2012

86. Johnson KD, Kim KM, Yu BK, **Saliba SA**, Grindstaff TL. Reliability of thoracic spine rotation range of motion measurements in healthy adults. *Journal of Athletic Training*;47(1):52-60. 2012.
87. Norte H, Drewes L, Lee SY, **Saliba S**, Hertel J: Increased plantar pressure on the lateral aspect of the foot with chronic ankle instability. *Foot and Ankle International* 32 (11), 1075. 2012.
88. Pietrosimone BG, Selkow NM, Ingersoll CD, Hart JM, **Saliba SA**: Stimulating electrode type and placement configuration on volitional quadriceps activation evaluation. *Journal of Athletic Training*. 46(6) 621-628, 2011.
89. **Saliba S**, Teeter C, McKeon P, Ingersoll CD, Saliba E. Effect of duration and amplitude of direct current when lidocaine is delivered by iontophoresis. *Pharmaceutics* 2011, 3(4), 923-931; doi:10.3390/pharmaceutics3040923. Invited Manuscript.
90. Donovan L, Selkow NM, Rupp K, Saliba E, **Saliba S**. The anesthetic effect of lidocaine after varying times of phonophoresis. *Am J Phys Med Rehab* 90:12: 1056-1063. 2011.
91. Sisson L, Croy T, **Saliba S**, Hertel J. Comparison of Ankle Arthrometry to Stress Ultrasound Imaging in the Assessment of Ankle Laxity In Healthy Adults. *International Journal of Sports Physical Therapy* 6:4:1-9, 2011.
92. Huang JS, Pietrosimone BG, Ingersoll CD, Weltman AL, **Saliba SA**. Sling Exercise and traditional warm-up have similar effects on the velocity and accuracy of throwing. *Journal of Strength and Conditioning Research* 25(6) 1673-1679, 2011.
93. Knapp D, Lee SY, Chinn L, **Saliba S**, Hertel J: Differential ability of selected postural control measures in the prediction of chronic ankle instability status. *Journal of Athletic Training*. 46(3): 257-262, 2011.
94. Glaviano N, Selkow N, Hertel J, Saliba E, **Saliba S**. No difference in skin anaesthesia after lidocaine delivered via iontophoresis at varying dosages. *Journal of Sport Rehabilitation*. 20(2): 187-197, 2011.
95. Pietrosimone B, Hertel J, Ingersoll C, Hart J, **Saliba S**. A meta-analysis of quadriceps volitional activation in patients with knee osteoarthritis. *Physical Medicine and Rehabilitation*. Feb; 3(2):153-62, 2011.
96. Frommer LJ, Gurka K, Cross K, Ingersoll CD, Comstock RD, **Saliba S**. Concussion symptomatology between sexes in high school athletes. *Journal of Athletic Training*; 46(1):76–84. 2011.

97. Selkow N, Pietrosimone B, **Saliba S**: Measurement of subcutaneous fat thickness with ultrasound imaging compared to skin calipers. *Journal of Athletic Training*. 46(1):50–54. 2011.
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65. Rupp KA, Selkow NM, Parente WR, Weltman AL, Ingersoll CD, **Saliba SA**: Cold Water Immersion Has No Effect on Maximal Performance in Collegiate Soccer Players. *Journal of Athletic Training* 45(3) S-22. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
66. Gorbet N, Selkow NM, Hart JM, **Saliba S**. No Differences in Transverse Abdominis Activation Ration Between Healthy and Low Back Pain Patients During Therapeutic Exercise. *Journal of Athletic Training* 45(3) S-36. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
67. Guthrie RJ, Grindstaff TL, Croy T, Ingersoll CD, **Saliba SA**. Effect of Bridging or Sling Bridging Exercise on Transverse Abdominis Activation Ratio in Individuals with Low Back Pain. *Journal of Athletic Training* 45(3) S-36. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
68. Grooms DR, Grindstaff TL, Croy T, Hart JM, **Saliba SA**. Clinical Assessment of Transverse Abdominis Function in Individuals with Low Back Pain. *Journal of Athletic Training* 45(3) S-37. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
69. Knapp DT, Lee SY, Chinn L, **Saliba S**, Hertel J. Differential Ability of Selected Postural Control Measures in the Prediction of Chronic Ankle Instability Status. *Journal of Athletic Training* 45(3) S-66. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.

70. Sauer LD, **Saliba SA**, Ingersoll CD, Kerrigan DC, Pietrosimone BP, Hertel J. Effects of Rehabilitation Incorporation of Short Foot Exercises on Self-Reported Function, Static and Dynamic Balance in Chronic Ankle Instability Patients. *Journal of Athletic Training* 45(3) S-67. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
71. Sims J, Cosby NL, Hertel L, Saliba EN, **Saliba S**. Effect of Wii Fit ® and Traditional Rehabilitation on Static Postural Control in Individuals with Non-Acute Lower Extremity Injuries. *Journal of Athletic Training* 45(3) S-67. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
72. Pietrosimone BG, **Saliba SA**, Hart JM, Hertel J, Sauer LD, Kerrigan DC, Ingersoll CD. Effects of Transcutaneous Electrical Nerve Stimulation on Peak External Knee Flexion Moment and Knee Flexion Angle during Gait in Patients with Tibiofemoral Osteoarthritis. *Journal of Athletic Training* 45(3) S-75. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010. *Doctoral Student Outstanding Research Award*.
73. **Saliba SA**, Selkow NM, Perlman J, Kreps C, Weltman A, Liu Z. Microvascular Perfusion Measurement in the Human Triceps Surae with Contrast Enhanced Ultrasound at Rest. *Journal of Athletic Training* 45(3) S-90. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
74. Gibbons CE, Pietrosimone BG, Hart JM, **Saliba SA**, Ingersoll CD. The Effect of Transcranial Magnetic Stimulation on Volitional Quadriceps Activation in Post-Operative Partial Meniscectomy Patients. *Journal of Athletic Training* 45(3) S-90. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
75. Berthold R, Sauer LD, Hart JM, **Saliba SA**, Hertel J. Intrinsic Foot Muscle Activation during Short Foot and Towel Crunch Exercises. *Journal of Athletic Training* 45(3) S-110. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
76. Sibilski E, Sauer LD, Hart JM, **Saliba SA**, Hertel J. Surface Electromyography of the Abductor Hallucis and Anterior Tibialis Muscles during the Intrinsic Foot Muscle Test. *Journal of Athletic Training* 45(3) S-117. NATA Annual Meeting - Free Communications, Philadelphia, PA, 2010.
77. Pietrosimone BG, Hertel J, Ingersoll CD, Hart JM, **Saliba S**. Voluntary Quadriceps Activation Deficits in Patients with Tibiofemoral Osteoarthritis: A Meta-Analysis. ACSM, Baltimore, MD, 2010.
78. Selkow N, Pietrosimon BG, Hertel J, **Saliba S**: Subcutaneous fat thickness measurements of the distal thigh comparing pinch calipers to ultrasound imaging. ACSM, Baltimore, MD, 2010.

79. Ingersoll CD, Pietrosimone BG, **Saliba S**. The effects of disinhibitory transcutaneous electrical nerve stimulation on contralateral quadriceps activation in osteoarthritic patients. ACSM, Baltimore, MD, 2010.
80. **Saliba S**, Pietrosimone B, Ingersoll C: Prediction of WOMAC Score in Patients with Knee Osteoarthritis. APTA Combined Sections National Meeting, San Diego, CA, February 20, 2010.
81. Pietrosimone B, **Saliba S**, Ingersoll CD. Effects of transcutaneous electrical nerve stimulation in conjunction with therapeutic exercise on quadriceps activation and self – reported function in patients with tibiofemoral osteoarthritis. APTA Combined Sections National Meeting, San Diego, CA, February 18, 2010.
82. **Saliba S**, Huang J, Pietrosimone BG, Weltman A, Ingersoll CD: The immediate effects of warm-up with sling exercise therapy compared with traditional shoulder exercise on the velocity and accuracy of throwing. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
83. Pietrosimone BG, Hart JM, **Saliba SA**, Hertel J, Ingersoll CD: Transcutaneous electrical nerve stimulation and focal knee joint cooling immediately increase quadriceps activation in osteoarthritic knees. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009
84. Selkow N, Pietrosimon BG, Hertel J, **Saliba S**: Subcutaneous fat thickness measurements of the distal thigh comparing pinch calipers to ultrasound imaging: 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. Finalist for Outstanding Doctoral Award. *Journal of Athletic Training* 44(3)S, 2009.
85. Naick J, Lee SY, Cosby NL, **Saliba S**, Hart J, Hertel J: Relationships between measures of core stability and dynamic postural control. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. Finalist for Outstanding Masters' Award *Journal of Athletic Training* 44(3)S, 2009.
86. Germanowski LM, Drewes LK, Lee SY, Parente WR, **Saliba SA**, Hertel J: Effects of ankle taping and bracing on plantar pressure in subjects with chronic ankle instability. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
87. Schmidt H, Drewes LK, Lee SY, Fujiwara LM, **Saliba SA**, Hertel J: Increased plantar pressures on the lateral aspect of the foot with chronic ankle instability. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
88. Hammill RR, Hart JM, **Saliba S**, Konold T, Hertel J, Ingersoll CD: Deep abdominal muscle training provides minimal important changes in perceived disability, but not

in pressure biofeedback values in asymptomatic people with a significant history of low back pain. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX, *Journal of Athletic Training* 44(3)S, 2009.

89. Kim KM, Croy T, **Saliba SA**, Hertel J: Effects of neuromuscular electrical stimulation after anterior cruciate ligament reconstruction on quadriceps strength, function, and patient oriented outcomes: a systematic review. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
90. Burston AM, Hammill RR, Beazell J, **Saliba S**, Hart JM, Ingersoll CD: The effect of a one-time abdominal muscle training session on the ability to contract the transverse abdominus in low back pain patients. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
91. Glaviano NR, Selkow NM, Saliba E, Hertel J, **Saliba S**: No difference in skin anaesthesia with lidocaine delivered with high or standard does of iontophoresis. 2009 NATA Annual Meeting - Free Communications, San Antonio, TX. *Journal of Athletic Training* 44(3)S, 2009.
92. Kelln BM, Ingersoll CD, **Saliba S**, Miller MD, Hertel J: Effect of early active range of motion rehabilitation on outcome measures after partial meniscectomy. *American College of Sports Medicine*. May 27, 2009.
93. Pietrosimone BG, Gibbons C, Huggins R, **Saliba SA**, Hart JM, Ingersoll CD: The Use of Transcranial Magnetic Stimulation in the Assessment of Quadriceps Activation: A Pilot Study. *American College of Sports Medicine*. May 30, 2009.
94. Pietrosimone BG, Hart JM, **Saliba SA**, Hertel J, Ingersoll CD: The Effects of Focal Knee Joint Cooling on Spectral Properties of Vastus Lateralis Electromyography in Patients with Tibiofemoral Knee Osteoarthritis. *Society for Neuroscience*. November 21, 2008.
95. Saliba EN, Pugh K, Baker A, Pietrosimone B, **Saliba, S**: Changes in body weight correlate with changes in blood volume after football practice while the orthostatic hypertension test is not correlated with hypovolemia. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO, June, 2008; *Journal of Athletic Training* 43(3)S, 2008.
96. **Saliba SA**, Tran J, Saliba E, MacKnight J, Kreps C, Densmore J, Weltman A: Incidence of iron depletion and iron deficiency without anemia in asymptomatic, apparently healthy intercollegiate female athletes. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO, June, 2008; *Journal of Athletic Training* 43(3)S, 2008.

97. Teeter C, McKeon P, Saliba EN, Ingersoll CD, **Saliba S**: Effect of duration and amplitude of direct current when lidocaine is delivered by iontophoresis. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO; *Journal of Athletic Training* 43(3)S, 2008.
98. Perreault A, Kelln B, Pugh K, Hertel J, **Saliba S**: The effectiveness of strain-counterstrain in reducing pain in upper trapezius tender points. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO; *Journal of Athletic Training* 43(3)S, 2008.
99. Parent N, Grindstaff TL, Cross KM, Pugh K, Hertel J, **Saliba S**: Short term effects of muscle energy technique on innominate rotation, leg length discrepancy, and pain in individuals with sacroiliac pain. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO; *Journal of Athletic Training* 43(3)S, 2008.
100. Griffith M, Lee SY, **Saliba SA**, Parente W, Hertel J: Effect of forefoot posted orthotics on plantar pressure patterns during walking in healthy young adults. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO; *Journal of Athletic Training* 43(3)S, 2008.
101. Morrison S, Lee SY, Drewes LK, Hart JM, **Saliba SA**, Hertel J: Effects of ankle taping and bracing on rearfoot plantar pressure during walking. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO; *Journal of Athletic Training* 43(3)S, 2008.
102. Huffman D, Pietrosimone B, Grindstaff, TL Hart JM, **Saliba SA**, Ingersoll CD: A mental counterirritant does not facilitate the quadriceps motoneuron pool in health subjects. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO. Outstanding Masters' Award; *Journal of Athletic Training* 43(3)S, 2008.
103. Van Riper M, Jackson KR, **Saliba SA**, Parente WE, Hertel J: Effects of hip abductor fatigue decreases knee valgus angle during unanticipated cutting in healthy women. 2008 NATA Annual Meeting - Free Communications, St. Louis, MO. Finalist for Outstanding Masters' Award; *Journal of Athletic Training* 43(3)S, 2008.
104. **Saliba SA**, Mistry DJ, Saliba EN, MacKnight JM, Norwood VF, Patrie J, Pugh KF, Weltman A: Prophylactic IV hydration causes less production of creatine kinase and lower core temperature in university football players at risk for development for exercise associated muscle cramps. 2007 NATA Annual Meeting - Free Communications. Anaheim, CA. *Journal of Athletic Training* 42(2)S, 2007.
105. Pugh KF, **Saliba SA**, Saliba EN, Diduch DR, Schaffrey CI: Cervical Disc Injury with Transient Quadriplegia in a Division I Collegiate Football Player. 2007 NATA Annual Meeting Free Communications. Anaheim, CA. *Journal of Athletic Training* 42(2)S, 2007.

106. Cross, KM, **Saliba SA**, Carson EM: Surgical Management Of Recalcitrant Lateral Knee Pain In A College Soccer Player. 2007 NATA Annual Meeting - Free Communications. Anaheim, CA. *Journal of Athletic Training* 42(2)S, 2007.
107. Saliba EN, **Saliba SA**, Pugh KF, Diduch D: Complete Avulsion Of C5 And C6 Nerve Roots At The Brachial Plexus In A College Football Player. 2007 NATA Annual Meeting - Free Communications. Anaheim, CA. *Journal of Athletic Training* 42(2)S, 2007.
108. **Saliba SA**, Krull AM, MacKnight JM, Saliba EN, Norwood VF, Pugh KF, Mistry DM, Weltman AL. Exercise associated muscle cramps: the effects of IV rehydration on serum chemistry and plasma volume. SEACSM, Charlotte, NC, February 9, 2007.
109. Pugh KF, **Saliba SA**, Saliba EN, Diduch D: Cervical disc injury in a Division I collegiate football player. VATA annual meeting. Charlottesville, VA January 19, 2007.
110. **Saliba SA**, Pugh K, Saliba EN, Diduch D: Brachial plexopathy in a Division I football player. VATA annual meeting. Charlottesville, VA January 19, 2007.
111. Strapp E.J, Guskiewicz KM, Hirth C., **Saliba S**, Hackney AC: The cumulative effect of multiple phonophoresis treatments on Dexamethasone and cortisol concentrations in the blood. 2000 NATA Annual Meeting – Free Communications. Nashville, TN. *Journal of Athletic Training* 35(2) S47, 2000. Winner of 2001 NATA poster presentation (Masters’).
112. **Foreman SA**, Gieck JH, Perrin DH, Ball D, Mistry DJ, McCue FC III, Weltman A. Effect of phonophoresis on the absorption of dexamethasone in the presence of an occlusive dressing. Kansas City, KS. *Journal of Athletic Training* 34(2), A24S, 1999.

PRESENTATIONS:

Invited Lectures:

Nicole Cosby, Jay Hertel, Lindsay Donnelly, **Saliba S**: Evidence based techniques to treat chronic ankle instability. NATA Symposium, Baltimore, MD, 2016.

Saliba S: Evidence versus the Myth of Therapeutic Modalities; Art & Science of Sports Medicine; Charlottesville, VA June 8, 2016.

Saliba S: Evidence for Therapeutic Modalities; Art & Science of Sports Medicine; Charlottesville, VA June 7, 2015. (EBP approved)

Saliba S: Evidence for Therapeutic Modalities; **OSC** Orthopedic Sports Medicine Symposium; Fredericksburg, VA December 5, 2015. (EBP approved)

Saliba S: Therapeutic Interventions; Art & Science of Sports Medicine; Charlottesville, VA June 7, 2013.

Saliba S: Guest Lecturer: Athletics in the University; 2014-present.

Glaviano NR, Saliba S. Patterned Electrical Neuromuscular Stimulation Improves Hip Muscle Activation and Pain in Individuals with Patellofemoral Pain. Mid Atlantic Athletic Trainers' Association Annual Meeting. Virginia Beach, Virginia. May 30th 2015.

Saliba S: Research Update in Therapeutic Modalities. Sports Medicine and Orthopedic Symposium. Kaohsiung, Taiwan, May 9, 2014.

Saliba S: Sports Concussion Mini-course. Kaohsiung Medical School. Kaohsiung, Taiwan, May 8-10, 2014.

Saliba S: Recent Evidence in Clinical Application of Cryotherapy. National Athletic Trainers' Association Clinical Symposium. Las Vegas, NV. June 22, 2013.

Saliba S: Unique Roles of Ultrasound in Sports Medicine. National Athletic Trainers' Association Clinical Symposium. St Louis, MO June 22, 2012.

Saliba S: How Cryotherapy Has Changed in Sports Medicine. Art & Science of Sports Medicine; Charlottesville, VA June 7, 2012.

Saliba S: What is the evidence for therapeutic modalities in sports medicine? National Athletic Trainers' Association Clinical Symposium. New Orleans, LA June 22, 2011.

Saliba S: Research Updates in Therapeutic Modalities. Art & Science of Sports Medicine; Charlottesville, VA June 8, 2011.

Saliba S: Research Updates in Therapeutic Modalities. Art & Science of Sports Medicine; Charlottesville, VA June 7, 2010.

Saliba S: Iron testing and clinical implication for female athletes. Art & Science of Sports Medicine; Charlottesville, VA, June 2, 2009.

Saliba S: Using intravenous fluid hydration for the prevention and treatment of exercise associated muscle cramps. Art & Science of Sports Medicine; Charlottesville, VA, June 3, 2008.

Saliba S: Iron testing and clinical implication for female athletes. Art & Science of Sports Medicine; Charlottesville, VA, June 6, 2008.

Saliba S: Are female athletes getting enough iron? Virginia Athletic Trainers' Association Annual Meeting. Charlottesville, VA, January 15, 2008.

Saliba S: Therapeutic Modalities to Decrease Pain. Training program for Physical Medicine and Rehabilitation Residents. September 17, 2008.

Saliba S: Can hepcidin be the key to sports related iron deficiency in women? CASTL Brown Bag Speaker Series. February 13, 2008.

Saliba S: Principles of rehabilitation. Athletic Injuries Class (EDHS 544); November 18, 2008.

Saliba S: Determining efficacy of interventions in sports medicine. Doctoral Seminar; March 14, 2007.

Saliba SA & Pugh KF: Protective equipment and splint fabrication for hand and wrist injuries in athletics. Art & Science of Sports Medicine; Charlottesville, VA, June 9, 2007

Saliba S: Rehabilitation of the wrist and hand. Art & Science of Sports Medicine; Charlottesville, VA, June 9, 2007

Saliba S: Best practice for clinical application of electrical stimulation. Art & Science of Sports Medicine; Charlottesville, VA, June 9, 2006

Saliba S: Controlling Pain and Rehabilitation Concerns for the Athlete. Understanding Your Sports Medicine Team Member's Role; University of Virginia Strength and Conditioning Coach Workshop. October 8, 2005.

Saliba S: Physical Medicine & Rehabilitation Grand Rounds, Therapeutic Modalities in Rehabilitation. November 22, 2002.

Saliba S, Houghlum P, Walters F: NATA Clinical Instructor Educator Course. Pittsburgh, PA October 9-10, 2001.

Saliba S, Shapiro S: NATA Clinical Instructor Educator Course. Los Angeles, CA June 21, 2001.

Saliba S, Shapiro S: NATA Clinical Instructor Educator Course. Nashville, TN. June 22, 2000.

Saliba S: Injuries to Women in College Athletics: Student Athlete Mentor Program, University of Virginia, Charlottesville, VA February 9, 2000.

Foreman S: Clinical Education in Athletic Training: National Athletic Trainers' Association National Convention, Kansas City, MO; June 17, 1999.

Foreman S: Wound Care for Athletic Trainers. Healthsouth Athletic Trainers' Workshop. Baltimore, MD. January, 1999.

Foreman S: Heat Illness in Athletics. Healthsouth Athletic Trainers' Workshop. Baltimore, MD. January, 1999.

Foreman S: The Physiology of Therapeutic Exercise in Rehabilitation, National Athletic Trainers' Association National Convention, Baltimore, MD; June 16, 1998. Panel with Saiba E, Starkey C, Buxton B.

Foreman S, Uhl T, Webright W, Saliba E: Mobilization of the Shoulder Lab, National Athletic Trainers' Association National Convention, Baltimore, MD; June 14, 1998.

Foreman S, Uhl T, Webright W, Saliba E: Mobilization of the Shoulder Lab, National Athletic Trainers' Association National Convention, Salt Lake City, UT; June 18, 1997

Foreman S, Saliba E: Ultrasound Update Lab, National Athletic Trainers' Association National Convention, Orlando, FL; June 15, 1996.

Foreman S, Saliba E: Ultrasound Update Lab, National Athletic Trainers' Association National Convention, Indianapolis, IN; June 12, 1995.

Foreman S: Biofeedback In Rehabilitation, ACC Athletic Training Meeting. Winston-Salem, NC, May 10, 1994.

Foreman S: Aquatic Rehabilitation, 20th Annual Art and Science of Sports Medicine, June 26, 1993.

Foreman S: Thoracic Outlet Syndrome, NATA National Convention, Kansas City, MO. June 6, 1993.

Foreman S: Anterior Cruciate Rehabilitation, ACC Athletic Training Meeting. Winston-Salem, NC, May 5, 1993.

Foreman S: Knee Rehabilitation. Bluefield College Sports Medicine Symposium. February, 1993. Panel with McCue F, Gieck J and Saliba E.

Foreman S: Thoracic Outlet Syndrome, 19th Annual Art and Science of Sports Medicine, June 19, 1992.

Foreman S: Evaluation of the Ankle, Guest Instructor - Orthopedic Basis in Sports Medicine, January 10, 1992, January 12, 1993, January 10, 1994.

Foreman S: Low Power Lasers in Sports Medicine, SEATA Student Trainers' Conference, Tuscaloosa, AL, Feb 9, 1991.

Foreman S: Concentric and Eccentric Exercise, 18th Annual Art and Science of Sports Medicine June 22, 1991.

Foreman S: Functional Progression & Return to Competition, Albemarle High School Coaches, August 28, 1990.

Foreman S: Rehabilitation following Intra-articular ACL Reconstruction, Martha Jefferson Hospital, August 1, 1990.

Foreman S: Biofeedback in Knee Rehabilitation, 17th Annual Art and Science of Sports Medicine, June 25, 1990.

Foreman S: Care of Acute Athletic Injuries, Albemarle High School Coaches, August 25, 1989

RESEARCH:

Extramural Funding:

Source: Accelerated Care Plus

Title: The effect of patterned electrical stimulation in conjunction with an impairment based rehabilitation program on kinetics and kinematics in patients with patellofemoral pain.

Time Period: 10/1/2015-10/1/2016

Direct Costs: \$15,000

Effort: Lab fees of \$15k plus 59% indirect costs (**FUNDED**)

Major Goals: Industry funded project to facilitate a randomized clinical trial using patterned electrical stimulation to determine its effect on patellofemoral pain rehabilitation.

Role: PI

Completed Awards:

Source: NIH - SBIR

Title: The relationship of the Vibrotactile unit and neurocognitive testing on individuals with mild traumatic brain injury

Time Period: 4/25/11-4/25/14

Direct Costs:

Effort: \$5000 + 27% indirect costs (**FUNDED**)

Major Goals: To determine the ability of the Vibrotactile Unit to assess mild traumatic brain injury

Role: Co-Investigator/consultant

Source: General Clinical Research Center, SAS006; 5M01RR00847

Title: The effects of cryotherapy on the blood flow of skeletal muscle in the human calf during acute inflammation

Time Period: 8/1/10-8/1/11

Direct Costs: \$5000 (partially **FUNDED**)

Major Goals: To determine the variability in iron parameters throughout the menstrual cycle.

Role: Principal Investigator

Source: General Clinical Research Center, SAS005; 5M01RR00847

Title: The effects of cryotherapy application on the blood flow of skeletal muscle in the human calf.

Time Period: 6/1/09-6/1/10

Direct Costs: \$12,587.00 (**FUNDED**)

Major Goals: To determine the effects of cryotherapy on blood flow when applied during acute inflammation

Role: Principal Investigator

Source: National Institutes of Health (Arthritis, Musculoskeletal and Skin Diseases)

Title: Neuromuscular and positional changes after ankle joint mobilizations

Effort: 10%

Period: 2nd Submission: July 2007, Priority Score: 174

Amount: \$378,000 (**FUNDED**)

Description: This study evaluates the effect of ankle joint mobilizations on joint position and function following ankle sprains.

PI: Jay Hertel, PhD

Role: Co-Investigator

Source: Orthopaedic Section, American Physical Therapy Association, Inc.

Title: The Effects of Mobilization of the Talus in Acute Ankle Rehabilitation

Time Period: 6/1/10-6/1/12

Direct Costs: \$15,000 (**FUNDED**)

Major Goals: To determine the effects of the use of posterior to anterior grade 3 mobilization on the outcome of acute ankle sprains.

Role: Co-Investigator

Source: Orthopaedic Section, American Physical Therapy Association, Inc.

Title: The Effects of TENS Stimulation as a Disinhibitory Modality in Patients with Tibiofemoral Osteoarthritis

Time Period: 6/1/08-6/1/10

Direct Costs: \$25,000 (**FUNDED**)

Major Goals: To determine the effects of the use of TENS during quadriceps rehabilitation and activities of daily living for a 4 week period on measures of muscle activation and gait in subjects with tibiofemoral osteoarthritis.

Role: Principal Investigator

Source: Department of Defense Contract; Award #: GG10873

Title: The relationship between hepcidin levels and low iron levels without anemia in high performance athletes

Time Period: 10/10/06-1/31/2010

Annual Direct Costs for Hepcidin Analysis: \$22,014.20 **(FUNDED)**

Direct Costs from GCRC: \$14,586.00 (SAS003/4) **(FUNDED)**

Major Goals: To determine whether hepcidin levels are correlated with time in the competitive season of elite female athletes and to determine if asymptomatic female athletes should be screened for iron deficiency at the beginning of a competitive season.

Role: Principal Investigator

Source: USA Swimming Medical & Technologies Grant

The relationship between hepcidin levels and low iron levels in swimmers compared to weight-bearing athletes.

Time Period: 8/15/07-8/15/08

Annual Direct Costs for Labs: \$5300.00 **(FUNDED)**

Major Goals: To determine whether iron parameters differ in weight bearing athletes compared to elite swimmers.

Role: Co-Principal Investigator (Dilawaar Mistry, MD, co-PI)

Source: General Clinical Research Center, SAS003

The relationship between hepcidin levels and menstrual cycle phase.

Time Period: 6/1/07-6/1/08

Direct Costs: \$4694.76 **(FUNDED)**

Major Goals: To determine the variability in iron parameters throughout the menstrual cycle.

Role: Principal Investigator

Source: General Clinical Research Center, SAS001

The effects of prophylactic IV hydration on serum chemistry, fluid balance and core temperature in university football players at risk for development for exercise associated muscle cramps.

Time Period: 7/1/06-7/1/08

Direct Costs from GCRC: \$18,625.20; \$5000 commitment from Athletics **(FUNDED)**

Major Goals: To determine the effects of prophylactic IV hydration on serum chemistry, core temperature and perceived exertion on football players during two a day football practices.

Role: Principal Investigator

Source: Samuelli Institute for Information Biology

Effects of SCENAR® Therapy on Pain Modulation, Swelling, Reflex Muscle Inhibition, Ankle Functional Status, and Recovery Time following Acute Ankle Sprain

Time Period: 1/01/03 – 10/31/06

Major Goals: The purpose of this project is to test the effectiveness of SCENAR® therapy to reduce pain and swelling, reverse muscle inhibition, improve ankle functional status, and shorten the recovery time following acute ankle sprains.

Role: Athletic Trainer (sub-investigator)

Source: 1. General Clinical Research Center, ALW007; 2. National Athletic Trainers' Association Research and Education Foundation

The effect of phonophoresis on the absorption of dexamethasone in the presence of an occlusive dressing.

Time Period: 7/1/97-7/1/98

Direct Costs (GCRC); \$18,450; (NATAREF) \$15,000 **(FUNDED)**

Major Goals: To determine whether ultrasound increased systemic dexamethasone absorption compared to a sham ultrasound treatment.

Role: Co-Primary Investigator (David Perrin, PhD, ATC co-PI)

Source: Electrical Pharmaceutical, Inc

The Effect of Pulsed EMF In the Resolution of Acute Edema and Pain in Ankle Sprains

Time Period: 3/1/1994-3/1/1995

Direct Costs: \$4000 **(FUNDED)**

Major Goals: Clinical Investigation (cohort study) to determine the resolution of pain and edema in acute ankle sprains when treated with Pulsed EMF (diathermy) compared to a sham treatment.

Role: Subinvestigator. Clinical Coordinator

Source: McNeil Consumer Products

The Effect of Chloroxazone on Muscle Pain and Spasm

Time Period: 1/15/1991-1/15/1992

Major Goals: Clinical Investigation (21 subjects) to determine whether Chloroxazone vs. placebo had an effect on the resolution of pain and muscle spasm of acute, non-specific low back and cervical injuries.

Role: Study Coordinator

Source: Merion, Merrell Dow, Inc.

The Safety and Efficacy of Ketoprofen gel

Time Period: 7/1/1991-7/1/1992

Direct Costs: \$8000 **(FUNDED)**

Major Goals: Multi-site study, clinical investigation (20 subjects) to determine the effect of topically applied Ketoprofen Gel on musculoskeletal injuries.

Role: Study Coordinator

RESEARCH AWARDS:

Proposals Submitted:

Source: STTR NIH

Title: Kinect based visual feedback to determine musculoskeletal risk factors

Time Period: 4/25/16-4/25/18

PI: Susan Saliba

Direct Costs: \$250,000 (under review)

Effort: 10% effort

Major Goals: To determine the reliability of a Kinect based system to identify musculoskeletal risk factors associated with faulty movement patterns. Kinematics will be compared to a Vicon 3d motion capture system.

Role: PI

Source: Alpha Phi Foundation's Heart to Heart Grant

Title: The effect of a stretching program on arterial stiffness in post menopausal women

Time Period: 4/25/16-4/25/18

PI: Jeongok Logan, RN

Direct Costs: \$125,000

Effort: 12.5% effort (Not Funded)

Major Goals: To determine the physiological effect of a general stretching program on pre-disease markers of hypertension and cardiovascular disease. Heart rate variability and arterial stiffness would be measured before and after a 4-week stretching program.

Role: Co-Investigator

Source: SEAS Seed Funding Program

Title: Virtual Reality and Transcranial Magnetic Stimulation (TMS) to Reduce Phantom Limb Pain.

PI: Greg Gerling (Engineering)

Effort: 5%

Period: 2012-2014

Amount: \$200,000 (NOT FUNDED) – reviewed with excellent marks

Role: Co-Investigator

Source: R-21; PA-09-191 (Bioenergetics, Fatigability, and Activity Limitations in Aging

Title: Effects of walking and strengthening exercises on gait & function in the elderly

PI: Susan Saliba & Terry Grindstaff (Co-PIs)

Effort: 10%

Period: 2010- 2012

Amount: \$275,000 (**not funded**)

Description: To compare a walking program with a focused core stability exercise program on fatigability, strength and function in the elderly.

Source: Clinical and Translational Science Award

Title: Towards Prevention of Sudden Cardiac Death (SCD) in Active Individuals.

PI: Susan Saliba

Effort: n/a

Period: 2009- 2010

Amount: \$25,000 (**not funded**) (*top 10% -invited for full proposal)

Description: The purpose of this study will be to develop an algorithm for using ECGs in pre-participation exams for elite athletes

Source: Clinical and Translational Science Award

Title: Microperfusion changes with the application of cryotherapy on skeletal muscle.

PI: Susan Saliba

Effort: n/a

Period: 2009- 2010

Amount: \$25,000 (**not funded**) (*top 10% -invited for full proposal)

Description: The purpose of this study will be to examine blood flow changes in the microcirculation of skeletal muscles when cryotherapy is applied.

Source: National Institutes of Health (NCCAM)

Title: A Manipulative Cavitation Indicator

PI: Aaron Olowin, PhD

Role: Co-Investigator/Sub-contract Coordinator

Effort: 5%

Period: 2008- 2009

Amount: \$29,648 (Subcontract) **(Not Funded)**

Description: The purpose of this study will be to develop an acoustic cavitation indicator for low back manipulations.

Source: Department of Defense Deployment Related Medical Research Program (DR080921)

Title: The Effects of Cryotherapy on the Microperfusion of Skeletal Muscle in Healthy and Acutely Inflamed Conditions in Humans

Time Period: 1/1/09-12/30/13

Direct Costs: \$ 1,300,000 **(Not Funded)**

Major Goals: Determine the microvascular effects with the application of cryotherapy in healthy and inflamed muscle.

Effort: 25%

Role: Principal Investigator

Source: National Athletic Trainers' Foundation Osternig Masters' Research Grant

Title: The

Time Period: 1/1/09-1/1/10

Direct Costs: \$1000 **(Not Funded)**

Major Goals: Determine the effects of a game-based balance training program to traditional balance rehabilitation.

Effort: 0%

Role: Faculty Advisor to Principal Investigator (Jennifer Sims)

Source: National Football League Charities

Quadriceps function following anterior cruciate ligament reconstruction

Time Period: 1/1/09-12/31/10

Direct Costs: \$150,000 **(Not Funded)**

Major Goals: Determine the arthrogenic muscle inhibition and function of the quadriceps muscle following anterior cruciate ligament reconstruction.

Effort: 3%

PI: Joseph M. Hart, PhD, ATC

Role: Co- Investigator

Source: EMPI , Inc. Research and Development Grant

The Effects of TENS as a Disinhibitory Modality in Patients with Tibiofemoral Osteoarthritis

Time Period: 1/1/08-1/1/10

Direct Costs: \$49, 941 (**Not Funded**)

Major Goals: Determine the effects of the use of TENS during quadriceps rehabilitation and activities of daily living for a 4 week period on measures of muscle activation and gait in subjects with tibiofemoral osteoarthritis.

Effort: 5%

PI: Christopher D. Ingersoll, PhD, ATC

Role: Co- Investigator

Source: K12 Virginia Institute of Clinical and Translational Research. Submitted 10/4/07

Microperfusion with cryotherapy during acute inflammation in humans

Funding period 7/1/08 to 6/30/12

Direct Costs: \$362,007 (75% effort for 4 years) (**Not Funded**)

Major Goals: The purpose of this proposal is to utilize the non-invasive perfusion imaging technique of contrast-enhanced ultrasound (CEU) for the evaluation of microvascular alterations in skeletal muscle associated with the clinical application of cryotherapy.

Role: Principal Investigator; Mentors: Zhenqi Liu and Christopher Ingersoll

Source: Arthritis National Research Foundation

Use of Focal Knee Joint Cooling as a Disinhibitory Modality for Inhibited Quadriceps in Patients with Tibiofemoral Knee Osteoarthritis

Funding Period 2008.

Direct Costs: \$49, 400 (**not funded**)

Major Goals: Determine the effects of the of knee joint cooling in conjunction with quadriceps rehabilitation for a 2 week period on measures of quadriceps motoneuron pool excitability of and activation in subjects with tibiofemoral osteoarthritis.

Effort: 5%

PI: Joseph M. Hart, PhD, ATC

Role: Co- Investigator

Source: National Football League Charities. Tracking Number 23548; submitted 5/4/07

The effects of post exercise cold immersion on subsequent maximal exercise performance in intercollegiate football players

Funding Period 2008-09

Total Costs: \$ 124,168 (**Not Funded**).

Major Goals: To investigate the use of cold immersion post exercise on recovery from maximal exercise and subsequent performance in intercollegiate football players.

Effort: 10% for 2 years

Role: Co-Principal Investigator with Arthur Weltman.

Source: NIH R03; New Investigator Application Number: 2973802; NIAMS

Skeletal muscle perfusion in therapeutic modalities that alter blood flow

Funding Period: 12/1/2007 - 11/30/2009

Direct Costs: \$50,000 per year for 2 years (**Not Funded**)

Major Goals: To utilize the non-invasive perfusion imaging technique of contrast-enhanced ultrasound for the evaluation of microvascular alterations in skeletal muscle associated with the clinical application of therapeutic modalities. The first aim of this proposal is to monitor the expected increases in capillary blood flow when neuromuscular electrical stimulation is applied in a manner that induces repeated isometric muscle contractions. The second aim of the proposal is to monitor the anticipated decline in capillary perfusion with the application of cold therapy.

Effort: 10% for 2 years

Role: Principal Investigator

NATA REF Pre-Proposal

The microvascular effects of cryotherapy in an acutely inflamed condition.

Invited for Full Proposal 01/15/08

NATA REF Pre-Proposal

The Effect of Cold Immersion on Recovery between Repeated Maximal Exercise Bouts in Intercollegiate Athletes

Invited for Full Proposal 01/19/07

NATA REF Pre-Proposal

The Effects of Prophylactic IV Hydration on Serum Chemistry, Fluid Balance, and Development and Severity of Exercise Associated Muscle Cramps in University Football Players

Invited for Full Proposal 07/24/06

NATA REF Pre-Proposal

The Relationship between Hepcidin Levels and Prelatent Iron Deficiency in High Performance Athletes

Invited for Full Proposal 07/31/06

RESEARCH:

Dissertation committees:

Andrea Baellow – (**Advisor** – in Progress)

Abbis Haider Jaffri – (**Advisor** – in Progress)

Ashley Stern - (**Advisor** – in Progress)

Lauren Colby Magrum - (**Advisor** – in Progress)

Lindsay Slater, MS: In Progress

Nigel Standish: In Progress

John Goetschius, PhD, ATC: Gait biomechanics in early, mid and late timepoints following ACL reconstruction. Assistant Professor, 2016 Adrian College.

Grant Norte, PhD, ATC: Chronicity of Quadriceps Function in ACL Reconstructed Individuals With and Without Knee Osteoarthritis. 2016 Assistant Professor, University of Toledo.

Neal Glaviano, PhD, ATC – (**Advisor**); Rehabilitation for patellofemoral pain patients using PENS; a clinical trial. 2016 Assistant Professor, University of Toledo.

Luke Donovan, PhD, ATC: Rehabilitation of chronic ankle instability using a destabilization device: clinical trial. 2015. Assistant Professor, University of Toledo; Assistant Professor, University of North Carolina, Charlotte.

Christopher Collin Herb, PhD, ATC: Lower extremity and biomechanics in chronic ankle instability with the role of joint coupling characteristics. 2015. Assistant Professor, Weber State College.

Mark Sutherlin, PhD, ATC: Neuromuscular changes in the core musculature following low back pain: using ultrasound imaging to assess muscle activation during functional tasks. 2015. Assistant Professor, State University of New York, Cortland

Mark Feger, PhD, ATC: Rehabilitation of chronic ankle instability using gait retraining methods. 2015. Medical College of Virginia, Medical Student

Kim Rupp (Pritchard), PhD, ATC (**Advisor**): Sensory nerve action potentials with the application of cryotherapy on subacute ankle sprains. 2013. Assistant Professor, Shenandoah University.

Chris Kuenze, PhD, ATC – Neuromuscular factors in ACL-Reconstructed individuals following exercise. 2013. Assistant Professor, University of Miami; Assistant Professor, Michigan State University.

Shellie Spiers – Acocello, PhD, ATC – (**Advisor**) The effects of sport concussion on cerebral blood flow. 2014. Assistant Professor, University of Tennessee, Chattanooga.

Noelle Selkow, PhD, ATC – (**Advisor**): The effects of cryotherapy on skeletal muscle perfusion and inflammatory markers during an acute inflammatory model (DOMS). 2011. Assistant professor, Illinois State University.

Nicole Cosby, PhD, ATC: The effects of posterior to anterior joint mobilization to the talus in the outcome of acute ankle sprains. 2011. Assistant Professor, Point Loma Nazarene University.

MAJ Ted Croy, PhD, PT: The use of ultrasound imaging and stress arthrometry in acute ankle sprains, chronic ankle instability and individuals with a history of a single ankle sprain. 2011. Assistant Professor, Army Medical – Baylor University.

Kevin Cross, PhD, ATC, PT: Hamstring injuries and reinjuries in high school and intercollegiate sports. 2011. Research Scientist/Physical Therapist: Healthsouth, Inc.

Kyung Min Kim, PhD, ATC: The neural effects of focal cryotherapy application in individuals with chronic ankle instability. 2012. Assistant Professor, Texas State University; Assistant Professor, Miami University.

Lisa Chinn, PhD, ATC: Gait implications for individuals with chronic ankle instability in either shod or barefoot conditions. 2012. Assistant Professor, Kent State University.

Damon Swift, PhD: Effects of Aerobic Exercise Training on Endothelial Function in Postmenopausal Women. 2010. Assistant Professor, East Carolina University.

Brian Pietrosimone, PhD: The effects of transcutaneous electrical nerve stimulation as a disinhibitory modality in patients with tibiofemoral knee osteoarthritis. 2009. Assistant Professor, University of Toledo; Assistant Professor, University of North Carolina.

Sae Yong Lee, PhD: Direct and indirect effects of alignment, range of motion, and gait measures on medial tibial stress syndrome status of runners. 2009. Assistant Professor, Miami University; Associate Professor, Yonsei University, South Korea.

Lindsay Drewes, PhD: Effects of rehabilitation incorporating short foot exercises on functional outcomes for chronic ankle instability. 2009.

Eric McVey – (in progress) – Cryotherapy and its effect on arthrogenic muscle inhibition post meniscectomy. Research Scientist, Dept of Orthopaedic Surgery, UVa.

Rob Hammill, PhD - The effects of an abdominal training program on core stability and quadriceps motoneuron pool excitability. 2008. Associate Professor, Bridgewater College.

Rachel Hallmark, MD, PhD – Endothelial function in obese and lean individuals with high and moderate exercise. 2008. UVa Medical School; Augusta Health.

Brent Kelln, PhD – The effect of early active range of motion (AROM) prehabilitation on post-operative ACL reconstruction outcome measures. 2007. US Navy Rehabilitation, Kauai, HI

J. Craig Garrison, PhD - Gender Differences In Hip and Knee Moments during Landing Maneuvers. 2005. Director of Research and Post-Professional Residencies at Texas Health Ben Hogan Sports Medicine.

Jean Fruh, EdD- The correlation of emotional intelligence, academic achievement and clinical performance in undergraduate athletic training students – 2005 Associate Professor, West Virginia Wesleyan University.

Joshua (Sung) H. You, PhD: Effects of proprioceptive feedback training (pft) and circumferential ankle pressure (cap) on proprioceptive acuity and balance performance in community-dwelling elderly. 2002

RESEARCH:

MEd/BS committees:

Kyle Murray, MEd, ATC (Advisor): Gluteal muscle activation in common rehabilitation exercises. 2016.

Rahul Katbamna, MEd, ATC (Advisor): Comparison of lumbopelvic hip muscle activity between individuals with and without patellofemoral pain. 2016.

Andrea Baellow, MEd, ATC (Advisor): Lower extremity strength, kinematics, and activation during a drop vertical jump in females with and without patellofemoral pain. 2016.

Jennifer Joseph, MEd, ATC (Advisor): Effects of a medially posted orthotic on kinematics and muscle activation during a drop vertical jump. 2016.

Matthew Kneece, MEd, ATC (Committee Member): Changes in foot morphology after intrinsic foot muscle strengthening exercise. 2016.

Catherine Donohue, MEd, ATC (Committee Member): Concurrent validity and test-retest reliability of the Kinect balance error scoring system. 2016.

Sarah Hontz, MEd, ATC (Committee Member): Influence of concussion history on depression, anxiety, and stress in collegiate athletes. 2016.

Haley Solaas, MEd, ATC (Committee Member): Physical activity influences the relationship between lower extremity function and fear of movement after ACL reconstruction. 2016.

John (Jack) Cole (BSEd) USOAR advisee: Kinematics of lower extremity function. 2016.

Ashley Dembeck (BSEd) USOAR advisee: The effect of PENS treatment on individuals with patellofemoral pain syndrome and how lower extremity biomechanics are affected following a single treatment. 2015.

Rachel Koldenhoven (MEd): Surface electromyography and plantar pressure during walking in young adults with chronic ankle instability. 2015.

Octavia Mathis (MEd) Advisor: Effects of a medially posted orthotic on kinematics in a single leg squat. 2015.

Sandra Koen (MEd): Reliability of image-based measures of the vastus medialis oblique muscle structure and function. 2015.

Ada Weiss (MEd) Advisor: Reliability of detecting quadriceps motor points. 2015.

Trina Hoffman (MEd): Resting metabolic rate, total energy expenditure, and caloric intake in healthy high school athletes: a pilot study. 2015.

Alex Dailey (MEd): A novel assessment of quadriceps muscle dysfunction using patellar tendon vibration: a reliability study. 2015.

Stacy Schurr (MEd) Advisor: Does video analysis of single leg squat kinematics agree with motion capture? 2015.

Kaitlin Henderson (MEd) Advisor: Function of the abdominal musculature during a single leg squat: an ultrasound imaging study. 2015

Stephanie Miller (BSEd) USOAR student: Iron parameters in healthy elite female collegiate athletes. 2014.

Amanda Brown (MEd) Advisor: Baseline measures of arterial stiffness in healthy athletes using the Brain Acoustic Monitor. 2014.

Stephanie Huntsman (MEd) Advisor: Effect of patterned electrical neuromuscular stimulation on lower extremity kinematics during a single leg squat. 2014.

Lauren Rao (MEd): Comparison of functional movement patterns between gender and sport. 2014.

Nic Philpot (MEd) Advisor: Effects of Class-IV laser therapy on pain in patients with a history of knee injury. 2014.

Catie Leblanc (MEd) Advisor: Association of arterial stiffness measures from the Brain Acoustic Monitor with baseline neurocognitive performance in healthy secondary and collegiate athletes. 2014.

Bethany Rohl (MEd): Sensory inputs to postural control in patients with chronic ankle instability: a pilot study. 2014.

Erin Proctor (MEd) Advisor: Agreement between 2D and 3D analysis of kinematics during a single leg squat in healthy individuals. 2014.

Colby Mangum (MEd): Reliability of ultrasound imaging measures of transverse abdominis and lumbar multifidus in various position. 2014.

Aaron Bottinick (MEd) Advisor: Focal cooling alters clinical outcome measures in patients with ankle sprains. 2013.

Natalie Reigh (MEd): Effects of a simple home-based balance program on patients with chronic ankle instability. 2013.

Nate Foot (MEd): Drop landing performance following ACL reconstruction. 2013.

Sam Walton (MEd) Advisor: The utility of the SCAT3 compared to other neuropsychological tests following sport-related concussion. 2013.

Billy Langston (MEd) Advisor: Effect of patterned electrical neuromuscular stimulation on central activation ratio in individuals with quadriceps inhibition. 2013.

Kyle Kosik (MEd) Advisor: Effects of focal joint cooling on mixed and sensory nerves in patients with chronic ankle instability. 2013.

Becca Feuerherd (MEd) Advisor: Validity and reliability of special tests of humeral torsion. 2013.

Megan Inama (MEd): Single leg squat assessment in knee injured individuals. 2013.

Kale Songy (MEd): Effect of EMG biofeedback on quadriceps activation and strength after knee joint injury. 2013.

Erica Beidler (MEd) Advisor: Influences on annual computerized neurocognitive baseline test performance in collegiate student-athletes. 2012.

Ian Hix (MEd) Advisor: Effect of lidocaine phonophoresis with hydrogel dressing on cutaneous anaesthesia after varying treatment times. 2012.

Jenna Cataldi (MEd) Advisor: Time to Numbness Onset and Numbness Duration with Cryotherapy. 2012.

Hailey Love (MEd) Advisor: Comparison of Skin Temperature and Patient-Reported Sensation for Various Modes of Administration of Cryotherapy. 2012.

Shandi Anderson (MEd) Committee Member: The use of exercise alone or exercise with biofeedback in people with low back pain. 2012.

John Goetchus (MEd) Committee Member: Unipedal postural control after exercise in individuals with ACL reconstructed knees. 2012

Andrew Cage (MEd) Advisor: Relative transmission of ultrasound energy through drug suspensions commonly used for phonophoresis. 2011.

Alyssa Shulby (MEd) Advisor: The effect of ice treatment on Delayed Onset Muscle Soreness (DOMS). 2011.

Thomas Newman (MEd) advisor: The effects of prophylactic ankle bracing on dynamic reach distance and obstacle course performance in military cadets. 2011.

Brandon Warner (MEd) Advisor: Superficial heat application does not affect quadriceps central activation ratio or peak torque in individuals with quadriceps inhibition. 2011.

Leah Bradley (MEd) Advisor: The effect of mouthguard use on running performance. 2011.

Alissa Meuthing (MEd) Committee Member: Shoulder Muscle Activation in Individuals with Previous Shoulder Injury. 2011.

Megan Houston (MEd) Committee Member: Responsiveness of Three Measures of Injury-Related Fear in Interscholastic and Intercollegiate Athletes. 2011.

Carolyn Dartt (MEd) Committee Member: Effect of Textured Insoles on Static and Dynamic Balance in Individuals with a History of an Ankle Sprain. 2011.

Devin Roberts (MEd) Committee Member: Techniques for Estimating Quadriceps Central Activation. 2011.

Sara Childress (MEd) Advisor – Comparison of low frequency and high frequency ultrasound imaging in the measurement of the anterior talofibular ligament. 2010.

Luke Donovan (MEd) Advisor – The anaesthetic effect of lidocaine after varying times of phonophoresis. 2010.

Megan Himes (MEd) Advisor – No difference in tranverse abdominis activation during side bridge exercises in people with low back pain. 2010.

Leah Sisson (MEd) – Committee Member - Comparison of ankle arthrometry and stress ultrasound to assess the anterior talofibular ligament in healthy ankles. 2010.

Katherine Johnson (MEd) – Committee Member - Reliability of thoracic spine rotation range of motion measurements in healthy adults. 2010.

Meghan Starliper (MEd) – Committee Member - Effects of side-lying sling-based bridging exercise on transverse abdominis activation in individuals with and without low back pain. 2010.

Rebecca Guthrie (MEd) Advisor: Effect of supine bridging or sling bridging exercise on transverse abdominis activation ratio in individuals with low back pain. 2009

Nathaniel Gorbet (MEd) Advisor: No difference in transverse abdominis muscle thickness between healthy and low back pain patients during the quadruped exercise. 2009

Jennifer Sims (MEd) Advisor: Effect of Wii Fit and traditional rehabilitation of static and dynamic measures of postural control. 2009

Kimberly Rupp (MEd) Advisor: The effect of cold water immersion on repeated maximal performance in collegiate soccer players. 2009

Rebecca Coyle (MEd) Committee Member: Intrinsic foot muscle activation during short foot and towel crunch exercise. 2009

Danielle Knapp (MEd) Committee Member: Differential ability of selected postural control measures in the prediction of chronic ankle instability status. 2009

Elizabeth Sibilsky (MEd) Committee Member: Surface electromyography of the abductor hallucis and anterior tibialis muscles during the intrinsic foot muscle test. 2009

Leah Frommer (MEd) Advisor: Concussion symptomatology between sexes in high school athletes – 2008.

Ashleigh Gauvain (MEd) Advisor: Relationship between multi-directional hip strength and knee valgus angle during a twenty centimeter step down test – 2008.

Neal Glaviano (MEd) Advisor: Effectiveness of iontophoresis dosage when indirectly measured by skin anaesthesia – 2008.

Juliet Huang (MEd) Advisor: Sling exercise therapy versus traditional warm-up and its effect on the velocity and accuracy in throwers – 2008.

Naoki Negishi (MEd) Committee Member: Quadriceps activation after cryotherapy and active therapeutic exercise in subjects with anterior knee pain – 2008.

Christopher Gibbons (MEd) Committee Member: Effect of transcranial magnetic stimulation on volitional quadriceps activation in post-operative partial meniscectomy patients – 2008.

Jonathan Naick (MEd) Committee Member: Relationships between measures of core stability and static and dynamic balance – 2008.

Lauren Germanowski (MEd) Committee Member: Effects of ankle taping and bracing on plantar pressure in subjects with chronic ankle instability – 2008.

Heather Schmidt (MEd) Committee Member: Increased plantar pressure on the lateral aspect of the foot with chronic ankle instability – 2008.

Adam Alverado (BA: Philosophy) Committee Member. Foul Balls and Foul Actions: The Morality of Steroid Use in Professional Baseball. May, 2008.

Noelle Parent (MEd) Advisor: Muscle energy technique for anterior/posterior pelvic tilt in patients with sacroiliac joint pain. 2007.

Adam Perreault (MEd) Advisor: The effectiveness of Strain counterstrain as a treatment for upper trapezius tender point pain. 2007.

Courtney Teeter (MEd) Advisor: Effect of duration and amplitude of direct current on lidocaine delivered by iontophoresis. 2007.

Jenna Page (MEd) Advisor: The effects of contrast bath on the range of motion and pain on a recently immobilized ankle. 2007.

Lee Dedore (MEd) Advisor: The relationship of knee valgus angle on unanticipated cutting with youth sport experience in females. 2007.

Alda Williams (MEd) Committee Member: The effect of a single training session on transverse abdominus thickness as measured by real-time ultrasound. 2010.

Daniel Huffman (MEd) Committee Member: The Effects of topical counterirritant application to the knee joint on quadriceps motoneuron pool excitability in healthy subjects. 2007.

Scott Morrison (MEd) Committee Member: The effect of orthotics on plantar pressure in gait. 2007.

Mark Van Riper (MEd) Committee Member: The effect of hip abductor fatigue on knee valgus with unanticipated cutting in females. 2007.

Megan Griffith (MEd) Committee Member: Plantar pressure in various walking speeds. 2007.

Ed Strapp (BS University of North Carolina, Chapel Hill): The effect of repeated phonophoresis treatments on the accumulation of dexamethasone in the serum. 1999.

Marybeth Poppe (MEd) Advisor: The Effects of External Pressure on Blood Flow using an Elastic Wrap. 1993.

Kevin Cross & Melissa Matherly (BSEd): The effects of cold application on balance. 1993.

RESEARCH:

Other:

Sub Investigator: The Effect of Low Power GaAs Laser on the Resolution of a Hematoma on Rats as Measured by MRI. Principal Investigator: Ethan Saliba. 1991-1992.

The Effect of Eccentric Exercise on Achilles Tendinitis: Masters' in Physical Therapy Research Proposal, Hahnemann University, 1989.

The Comparison of Torque Acceleration Energy to Vertical Jump as a Measure of Anaerobic Power. Masters' in Athletic Training Research Thesis, University of Virginia, 1987.

SERVICE:

UVa Committee Appointments:

- ◆ UVa PreHealth Task Force 2014-2016
- ◆ UVa Provost's Committee on Academic Policy 2012-present.
- ◆ Curry School of Education, Undergraduate Committee Chair 2015-present
- ◆ Curry School of Education, Curriculum and Program Review Committee 2011-present.
- ◆ Curry School of Education, Curriculum Review Committee 2009-2014.
- ◆ Curry School of Education, Admissions Committee 2007.
- ◆ UVa Cares. Committee dedicated to raising awareness of the presence of eating disorders, and to the education and prevention of disordered eating and distorted body image issues. Appointed by Patricia Lampkin, Vice President and Chief Student Affairs Officer (2005-present).
- ◆ Served on committee for eating disorders in athletes, University of Virginia Athletics Department, 1996.
- ◆ Served on committee to evaluate the treatment of women athletes, University of Virginia Athletics Department, 1993.

SERVICE:

Professional/National Committees:

- CAATE Site Visitor 2016
- NATA Fellows Committee 2012-present
- Agency for Healthcare Research and Quality (AHRQ) Effective Health Care (EHC) Program draft report. 2012-14.

- APTA Orthopaedic Section Research Committee. 2008-2010
- NATA Research & Education Foundation Free Communications Committee. 2006-2009.
- NATA Education Executive Committee: Establish educational guidelines for Athletic Training Education; appointment 1997-2003.
- NATA Clinical Education Committee: Chairperson, 1999-2003.
- NATABOC item development committee for the Written Portion of the Certification Exam, 1995-2000.
- NATABOC Role Delineation Study: Raleigh, NC, December 6, 1993. One of 18 certified athletic trainers to construct the basis for the certification process of entry-level athletic trainers.

Editorial Review Boards:

- ◆ Journal of Athletic Training – Associate Editor
- ◆ Athletic Training Foundation
- ◆ Journal of Orthopedic and Sports Physical Therapy
- ◆ Clinical Rehabilitation
- ◆ SportsHealth; An Interdisciplinary Journal
- ◆ Athletic Training and Sports Healthcare
- ◆ Journal of Sports Rehabilitation
- ◆ Archives of Physical Medicine and Rehabilitation
- ◆ Strategies; Journal for Physical and Sport Educators
- ◆ FA Davis Publishing Company
- ◆ Human Kinetics Publishing Company
- ◆ Physician and Sports Medicine

Grant Review:

- APTA Foundation Orthopedic Section Grant Review Committee, 2009-present
- Kentucky Science & Engineering Foundation; Kentucky Science & Technology Corporation, 2009- present.
- NATA Foundation Grant Review, 2008- present.
- Nominated to serve on the Scientific Review Committee, Physical Therapy 2008.

PROFESSIONAL ORGANIZATIONS:

Membership:

- ◆ National Athletic Trainers' Association
- ◆ Virginia Athletic Trainers' Association
- ◆ American Physical Therapy Association; Orthopedic Section
- ◆ McCue Society, Secretary / Treasurer
- ◆ Atlantic Coast Conference (ACC) Athletic Trainers' Association Scholarship Selection Committee
- ◆ United States Weightlifting Association

AWARDS:

- ◆ James O. West Memorial Service Award, 2013.
- ◆ VATA Educator of the Year: Awarded Jan 2013.
- ◆ NATA Fellow, 2011
- ◆ Second Runner-up for 2007 *Journal of Athletic Training* Kenneth L. Knight Award for the Outstanding Research Manuscript
- ◆ Z Society Recognition for Art & Science of Sports Medicine Conference, 2006
- ◆ NATA Service Award, 2004
- ◆ Runner-up *Journal of Athletic Training* article of the year, 1989
- ◆ Academic Distinction; Hahnemann University, 1989
- ◆ Athletic Scholarship, University of Virginia
- ◆ ACC Honor Roll 1982-1986
- ◆ ACC Champion, 3 meter Diving, 1986
- ◆ All ACC Swim Team (Diving), 1983-86
- ◆ Paul V. Hicks Award for Leadership, 1986
- ◆ Dean's List, University of Virginia, 1984-86
- ◆ High School All-America (1Meter & 3Meter Diving) 1982