

**Riann M. Palmieri-Smith, Ph.D., ATC**  
**Curriculum Vitae**

School of Kinesiology  
University of Michigan  
401 Washtenaw Avenue  
Ann Arbor, MI 48109-2214

Phone: (734) 615-3154  
Fax: (734) 936-1925  
Email: riannp@umich.edu

**Education**

Ph.D.	University of Virginia	Sports Medicine/Athletic Training	2004
M.S.	Indiana State University	Athletic Training	2000
B.S.	California University of Pennsylvania	Athletic Training	1999

**Professional Experience**

**Associate Professor**, Athletic Training, School of Kinesiology, University of Michigan, 2010-present  
**Program Area Chair**, Athletic Training, School of Kinesiology, University of Michigan, 2004-present  
**Associate Professor**, Dept. of Orthopaedic Surgery, University of Michigan, 2010-present  
**Assistant Professor**, Athletic Training, School of Kinesiology, University of Michigan, 2004-present  
**Adjunct Associate Professor**, Movement Science, School of Kinesiology, U. of Michigan, 2010-present  
**Adjunct Assistant Professor**, Movement Science, School of Kinesiology, U. of Michigan, 2005-present  
**Director of Athletic Training Education**, School of Kinesiology, U. of Michigan, 2004-2006  
**Assistant Professor**, Dept. of Human Services, Curry School of Education, U. of Virginia, 2004  
**Doctoral Fellow in Sports Medicine**, Dept. of Human Services, Curry School of Education, U. of Virginia, 2002-2003  
**Doctoral Fellow in Life Science**, Dept. of Athletic Training, Indiana State University, 2000-2002  
**Graduate Assistant Athletic Trainer**, Dept. of Athletic Training, Indiana State University, 1999-2000  
**Research Assistant**, West Virginia University, 1997-1999

**Honors and Awards**

**NATA Fellow**, 2017  
**Loan Repayment Award**, National Institutes of Health, 2010-2012  
**Loan Repayment Award**, National Institutes of Health, 2008-2010  
**New Investigator Award**, National Athletic Trainers' Research and Education Foundation, 2007  
**Loan Repayment Award**, National Institutes of Health, 2006-2008  
**Second runner-up Clint Thompson Manuscript Award**, Journal of Athletic Training, 2004  
**Outstanding Alumni Award**, Department of Health Science and Sports Studies, California University of Pennsylvania, 2005  
**Young Professional Alumni Award**, College of Health and Human Performance, Indiana State University, 2005  
**David H. Perrin Dissertation Award**, National Athletic Trainers' Research and Education Foundation, 2005

**Outstanding Doctoral Student Oral Presentation**, National Athletic Trainers' Research and Education Foundation, 2004

**Outstanding Masters Student Oral Presentation**, National Athletic Trainers' Research and Education Foundation, 2004 (Student's Mentor)

**Graduate Award**, Indiana State University 6<sup>th</sup> Annual Research Showcase, 2002

**Outstanding Graduate Student Award**, Indiana State University Department of Athletic Training, 2000

**Outstanding Senior Student Athletic Trainer**, California University of Pennsylvania, 1999

**Presidential Scholar**, California University of Pennsylvania, 1997-1999

**Peer Reviewed Publications** (\* represents undergraduate, graduate student or post-doc I mentored)

71. Digiacoio JE, **Palmieri-Smith RM**, Redmann JA 3<sup>rd</sup>\*, Lepley LK. Examination of Knee Morphology After Secondary Ipsilateral ACL Injury Compared to Those That Have Not Reinjured: A Preliminary Study. *J Sport Rehabil.* 2018; 27:73-82.
70. Johnson AK\*, **Palmieri-Smith RM**, Lepley LK. Contribution of neuromuscular factors to quadriceps asymmetry after anterior cruciate ligament reconstruction. *J Athl Train.* 2018; 52: 347-54.
69. Thomas AC, Hubbard-Turner T, Wikstrom EA, **Palmieri-Smith RM**. Epidemiology of Post-traumatic Osteoarthritis. *J Athl Train.* 2017; 52:491-6.
68. **Palmieri-Smith RM**, Cameron KC, Pietrosimone B, Thomas AC, DiStefano L, Driban J. The role of athletic trainers in preventing and managing post-traumatic osteoarthritis in physically active populations. *J Athl Train.* 2017; 2:610-23.
67. **Palmieri-Smith RM**, Potter HS, Wojtys EM. Early cartilage changes after ACL injury: Evaluation with imaging and serum biomarkers – A pilot study. *Arthroscopy.* 2016; 32: 1309-18.
66. Lepley LK\* and **Palmieri-Smith RM**. Pre-operative quadriceps activation is related to post-operative activation, not strength, in patients post-ACL reconstruction. *Knee Surg Sports Traumatol Arthrosc.* 2016; 24: 236-46.
65. Thomas AC\*, Wojtys EM, Brandon C, **Palmieri-Smith RM**. Muscle atrophy contributes to quadriceps weakness after ACL reconstruction. *J Sci Med Sport.* 2016; 19:7-11.
64. Thomas AC,\* McLean SG, **Palmieri-Smith RM**. Effects of Neuromuscular Fatigue and Quadriceps Inhibition on Knee Biomechanics. *J Orthop Sports Phys Ther.* 2015; 45: 1042-50.
63. Lepley LK\* and **Palmieri-Smith RM**. Quadriceps Strength, Muscle Activation Failure and Patient- Reported Function at the Time of Return-to-Activity in ACL Reconstructed Patients: A Cross-Sectional Study. *J Orthop Sports Phys Ther.* 2015; 45:1017-25.
62. Lepley LK\*, Wojtys EM, **Palmieri-Smith RM**. Combination of Eccentric Exercise and Neuromuscular Electrical Stimulation Post-ACL Reconstruction to Improve Knee Mechanics. *Clin Biomech.* 2015; 30: 738-47.
61. Lepley LK\*, Wojtys EW, **Palmieri-Smith RM**. Does concomitant meniscectomy or meniscal r repair affect the recovery of quadriceps function post-ACL reconstruction? *Knee Surg Sports Traumatol Arthrosc.* 2015; 23: 2756-61.
60. Lepley LK\*, Wojtys EW, **Palmieri-Smith RM**. Combination of eccentric exercise and neuromuscular electrical stimulation post-ACL reconstruction to improve quadriceps function. *Knee.* 2015; 22:270-7.
59. **Palmieri-Smith RM** and Lepley LK\*. Quadriceps strength asymmetry following ACL reconstruction alters knee joint biomechanics and functional performance at time of return to activity. *Am J Sports Med.* 2015; 43:1662-9.

58. Lepley LK\* and **Palmieri-Smith RM**. Cross-education strength and activation after eccentric exercise. *J Athl Train*. 2014; 49: 582-9.
57. Brown TN\*, McLean SG, **Palmieri-Smith RM**. Associations between lower limb muscle activation strategies and resultant multi-planar knee kinetics during single leg landings. *J Sci Med Sport*. 2014;17: 408-13.
56. Brown TN\*, **Palmieri-Smith RM**, McLean SG. Comparative adaptation of lower limb biomechanics during unilateral and bilateral landings after different neuromuscular-based ACL injury prevention protocols. *J Strength Cond Res*. 2014; 28: 2859-71.
55. Beaulieu ML\*, **Palmieri-Smith RM**. Real-time feedback on knee abduction moment does not improve frontal-plane knee mechanics during jump landings. *Scan J Med Sci Sports*. 2014; 24: 692-699.
54. Kipp K\*, **Palmieri-Smith RM**. Differences in kinematic control of ankle joint motions in people with chronic ankle instability. *Clin Biomech*. 2013; 48: 186-91.
53. **Palmieri-Smith RM**, Villwock M, Downie B, Hecht G, Zernicke R. Pain and Effusion on Quadriceps Activation and Strength. *J Athl Train*. 2013;48:186-91.
52. Lepley LK\* and **Palmieri-Smith RM**. Effect of eccentric strengthening following anterior cruciate ligament reconstruction on quadriceps strength. *J Sport Rehabil*. 2013;22:150-6.
51. Lepley LK\*, Thomas AC, McLean SG, **Palmieri-Smith RM**. Fatigue's lack of effect on thigh-muscle activity in ACL reconstructed patients during a dynamic landing task. *J Sport Rehabil*. 22:83-92.
50. Kipp K\*, Brown TN, McLean SG, **Palmieri-Smith RM**. Decision-making and experience level influence frontal plane knee joint biomechanics during a cutting maneuver. *J Appl Biomech*. 2013;29: 756-62.
49. Thomas AC\*, Wojtys EM, **Palmieri-Smith RM**. Lower extremity muscle strength following ACL injury and reconstruction. *J Athl Train*. 2013; 48:610-20.
48. Kipp K\* and **Palmieri-Smith RM**. Principal component based analysis of biomechanical inter-trial variability in individuals with chronic ankle instability. *Clin Biomch*. 2012; 27: 706-10.
47. Thomas AC\*, **Palmieri-Smith RM**, McLean SG. Isolated hip and ankle fatigue are unlikely risk factors for ACL injury. *Scand J Med Sci Sports*. 2011; 21: 359-68.
46. Kipp K\*, McLean SG, **Palmieri-Smith RM**. Patterns of hip flexion motion predict frontal and transverse plane knee torques during a single-leg land-and-cut maneuver. *Clin Biomech*. 2011; 26:504-8.
45. **Palmieri-Smith RM**, Thomas AC, Karvonen-Gutierrez, Sowers MF. A clinical trial of neuromuscular electrical stimulation in improving quadriceps strength and activation among women with mild and moderate osteoarthritis. *Phys Ther*. 2010; 1441-52.
44. **Palmieri-Smith RM**, Thomas AC, Karvonen-Gutierrez, Sowers MF. Isometric Quadriceps Strength in Women with Mild, Moderate, and Severe Knee Osteoarthritis. *Am J Phys Med Rehab*. 2010;89:541-8.
43. Thomas AC\*, McLean SG, **Palmieri-Smith RM**. Quadriceps and Hamstrings Fatigue Alters Hip and Knee Mechanics. *J Appl Biomech*. 2010; 26:159-170.
42. Thomas AC\*, Sowers M, Karvonen-Gutierrez C, **Palmieri-Smith RM**. Lack of quadriceps dysfunction in women with early knee osteoarthritis. *J Orthop Res*. 2010; 28: 595-9.
41. Hopkins JT, Brown TN, Christensen L, **Palmieri-Smith RM**. Deficits in peroneal latency and electromechanical delay in patients with functional ankle instability. *J Orthop Res*. 2009; 27: 1541-6.
40. Brown TN\*, **Palmieri-Smith RM**, McLean SG. Sex and limb differences in hip and knee

- kinematics and kinetics during anticipated and unanticipated jump landings: implications for anterior cruciate ligament injury. *Br J Sports Med.* 2009; 43: 1049-56.
39. Sowers M, Karvonen-Gutierrez CA, **Palmieri-Smith RM**, Jacobson JA, Jiang Y, Ashton-Miller JA. Knee osteoarthritis in obese women with cardiometabolic clustering. *Arthritis Rheum.* 2009;61(10):1328-1336.
  38. **Palmieri-Smith RM** and Thomas AC. A neuromuscular mechanism of post-traumatic osteoarthritis associated with ACL injury. *Exerc Sci Sport Rev.* 2009;37(3): 147-153.
  37. **Palmieri-Smith RM**, McLean SG, Ashton-Miller JA, Wojtys EM. Lateral quadriceps and hamstring co-contraction contributes to greater knee abduction loads in females. *J Athl Train.* 2009;44(3): 256-263.
  36. **Palmieri-Smith RM**, Hopkins JT, Brown TN. Peroneal activation deficits in persons with functional ankle instability. *Am J Sports Med.* 2009;37(5): 982-9.
  35. Zernicke RF, Antle KA, McLean SG, **Palmieri-Smith RM**, Ashton-Miller JA, Wojtys EM. Play at your own risk: Sport and the injury epidemic. *J Intercollegiate Sport.* 2009; 2: 42-63.
  34. **Palmieri-Smith RM**, Wojtys EM, Ashton-Miller JA. Association between preparatory muscle activation and peak knee valgus angle. *J Electromyogr Kinesiol.* 2008;18(6): 973-9.
  33. **Palmieri-Smith RM**, Thomas AC, Wojtys EM. Maximizing Quadriceps Function after ACL reconstruction. *Clin Sports Medicine.* 2008; 27: 405-24. (Invited)
  32. Hart JM, Garrison JC, **Palmieri-Smith RM**, Kerrigan DC, Ingersoll CD. Lower Extremity Joint Moments of Collegiate Soccer Players Differ Between Genders During a Forward Jump. *J Sport Rehabil.* 2008;17(2):137-47.
  31. Bowman TG, **Palmieri-Smith RM**. Humeral Head Epiphyseal Plate Fracture in a Collegiate Track and Field Decathlete: A Case Study. *J Sport Rehabil.* 2008; 17(1): 76-83.
  30. Berg CL, Hart JM, Cross KM, **Palmieri-Smith RM**, Ingersoll CD. Cryotherapy Does Not Effect Peroneal Reaction Following Sudden Inversion. *J Sport Rehabil.* 2007; 16(4): 285-294.
  29. **Palmieri-Smith RM**, Kreinbrink J, Ashton-Miller JA, Wojtys EM. Quadriceps inhibition induced by an experimental knee joint effusion affects knee joint mechanics during a single-legged drop landing. *Am J Sports Med.* 2007; 35(8): 1269-1275.
  28. Hart JM, Garrison JC, Kerrigan DC, **Palmieri-Smith RM**, Ingersoll CD. Gender Differences In Gluteus Medius Muscle Activity Exist In Soccer Players Performing A Forward Jump. *Res Sports Med.* 2007;15(2):147-55.
  27. Agel J, **Palmieri-Smith RM**, Dick R, Wojtys EM, Marshall SW. Descriptive epidemiology of collegiate women's volleyball injuries: national collegiate athletic association injury surveillance system, 1988-1998 through 2003-2004. *J Athl Train.* 2007; 42: 295-302.
  26. **Palmieri-Smith RM**, Leonard JL, Garrison, JC, Weltman AL, Ingersoll CD. Peripheral joint cooling increases spinal reflex excitability and serum norepinephrine. *Int J Neurosci.* 2007; 117:229-42.
  25. Bowman TG, Hart JM, **Palmieri RM**, McGuire BA, Ingersoll CD. A functional fatiguing protocol and deceleration time of the shoulder from an internal rotation perturbation. *J Athl Train.* 2006; 41: 275-279.
  24. Russell KA, **Palmieri RM**, Zinder SM, Ingersoll CD. Gender differences in valgus knee angle during a single-leg landing. *J Athl Train.* 2006;41:166-171.
  23. **Palmieri RM**, Garrison JC, Leonard JL, Weltman AL, Edwards JE, Ingersoll CD. The effects of focal ankle joint cooling on local and core temperature. *J Athl Train.* 2006;41: 185-188.
  22. Sowers MF, Jannausch ML, Gross M, Karvonen CA, **Palmieri RM**, Crutchfield M, Richards-McCullough K. Performance-based Physical Functioning in African American and Caucasian

- Women at Mid-Life: Considering Body Composition, Leg Strength, and Knee Osteoarthritis. *Am J Epidemiol.* 2006;163:950-8.
21. McVey ED, **Palmieri RM**, Docherty CL, Zinder SM, Ingersoll CD. Arthrogenic muscle inhibition is present in patients exhibiting functional ankle instability. *Foot Ankle Intl.* 2005;26(12): 1055-1061.
  20. Garrison JC, Hart JM, **Palmieri RM**, Kerrigan DC, Boxer J, Ingersoll CD. Comparison of knee joint moments in male and female college soccer players during a single-leg landing. *J Sport Rehabil.* 2005;14(4): 332-337.
  19. **Palmieri RM**, Tom JA, Weltman AL, Edwards JE, Saliba EN, Mistry DJ, Ingersoll CD. Pre-synaptic modulation of quadriceps arthrogenic muscle inhibition. *Knee Surg Sports Traumatol Arthrosc.* 2005;13:370-6.
  18. **Palmieri RM** and Ingersoll CD. Intersession reliability of a protocol to assess paired reflex depression in the vastus medialis. *Int J Neurosci.* 2005;115: 735-40.
  17. Garrison JC, Hart JM, **Palmieri RM**, Kerrigan DC, Ingersoll CD. Lower extremity EMG does not differ between male and female collegiate soccer players during single-leg landing. *J Sport Rehabil.* 2005;14: 48-57.
  16. **Palmieri RM**, Tom JA, Weltman AL, Edwards JE, Saliba EN, Mistry DJ, Ingersoll CD. Soleus arthrogenic muscle response induced by an experimental knee joint effusion is mediated by pre- and post-synaptic spinal mechanisms. *J Electromyogr Kinesiol.* 2004; 14: 631-640.
  15. **Palmieri RM**, Ingersoll CD, Hoffman MA. The Hoffmann Reflex: Methodological considerations and applications for use in sports medicine research. *J Athl Train.* 2004; 39: 268-277.
  14. **Palmieri RM**, Weltman AL, Tom JA, Edwards JE, Saliba EN, Mistry DJ, Ingersoll CD. Plasma catecholamine concentration is not related to the soleus arthrogenic muscle response induced by an experimental knee joint effusion. *Neurosci Letters.* 2004; 366: 76-79.
  13. Stone MB, **Palmieri RM**, Ingersoll CD. The Role of Nonsteroidal Anti-inflammatory Drugs for the Treatment of Delayed Onset Muscle Soreness in Sport. *International SportMed Journal.* 2004; 8: 147-154.
  12. **Palmieri RM**, Ingersoll CD, Hoffman MA, Cordova ML, Porter DA, Edwards JE, Babington JP, Krause BA, Stone MB. Arthrogenic muscle response to a simulated ankle joint effusion. *Br J Sports Med.* 2004; 38:26-30.
  11. Hopkins JT and **Palmieri RM**. Effects of ankle joint effusion on lower leg function. *Clin J Sports Med.* 2004; 4:1-7.
  10. **Palmieri RM**, Ingersoll CD, Edwards JE, Hoffman MA, Stone MB, Babington JP, Cordova ML. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. *Am J Phys Med Rehabil.* 2003; 82:910-916.
  9. Stone MB, Stemmans CA, Edwards JE, Ingersoll CD, **Palmieri RM**, Krause BA. Certified athletic trainers' perception of exercise associated muscle cramps. *J Sport Rehabil.* 2003; 12:333-342.
  8. Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, **Palmieri RM**, Cordova ML, Krause BA. A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability. *J Strength Cond Res.* 2003; 17: 587-589.
  7. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ, Stone MB, Krause BA. Artificial knee joint effusion improves postural steadiness in healthy subjects. *Arch Phys Med Rehabil.* 2003; 84: 1076-1079.

6. Stone MB, Edwards JE, Ingersoll CD, Babington JP, **Palmieri RM**. Intrasession and intersession reliability of an electrical method to induce muscle cramp. *Muscle Nerve*. 2003;1:122-123.
5. Hoffman MA, **Palmieri RM**, Ingersoll CD. Simultaneous Hoffmann reflex measurements in multiple muscles around the ankle. *Int J Neurosci*. 2003; 113: 39-46.
4. **Palmieri RM**, Ingersoll CD, Stone MB, Krause BA. Center-of-pressure parameters used in the assessment of postural control. *J Sport Rehabil*. 2002;11: 51-66.
3. **Palmieri RM**, Hoffman MA, Ingersoll CD. Intersession reliability for H-reflex measurements arising from the soleus, peroneal, and tibialis anterior musculature. *Int J Neurosci*. 2002; 112: 841-850.
2. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ. Prolonged ankle brace application does not affect the spectral qualities of postural control. *J Athl Train*. 2002;37:269-274.
1. Cordova ML, Ingersoll CD, **Palmieri RM**. Efficacy of prophylactic ankle support: An experimental perspective. *J Athl Train*. 2002; 37: 458-462.

### Manuscripts in Press

1. Curran MT, Lepley LK, **Palmieri-Smith RM**. Continued Improvements in Quadriceps Strength and Knee Biomechanical Symmetry over 18 months: Time to Reconsider the 6-Month Return-to-Activity Guidelines? *J Athl Train*.
2. Lapointe AP, Nolasco LA, Sosnowski A, Andrews E, Martini DN, **Palmieri-Smith RM**, Gates DH, **Broglia SP**. Kinematic differences during a jump cut maneuver between individuals with and without a concussion history. *Int J Psychophysiol*.

### Manuscripts in Review

1. Curran MT, Lepley LK, **Palmieri-Smith RM**. Continued Improvements in Quadriceps Strength and Knee Biomechanical Symmetry over 18 months: Time to Reconsider the 6-Month Return-to-Activity Guidelines? *J Athl Train*. *In revision*
2. Palmieri-Smith RM, Redman J, Lepley LK. ALTERATIONS IN HAMSTRING ACTIVITY AT RETURN-TO-PLAY POST-ACLR: PROTECTIVE MECHANISM AMONG PATIENT THAT DO NOT RE-INJURE? *In revision*. *Knee Surg Sports Traumat Arthros*

### Non-Peer Reviewed Publications

2. **Palmieri RM**. Leadership in the Academy: Junior Faculty as Program Directors. *Journal of Athletic Training*. 2005; 40: 4.
1. Ingersoll CD, **Palmieri RM**, Hopkins JT. A Joint Dilemma. *Rehabilitation Management*. 2003;16: 38-42.

### Published Abstracts

62. Palmieri-Smith RM, Wojtys EM, Potter HG. Early Cartilage Changes Following ACL Injury/ Reconstruction: Evaluation With Imaging and Serum Biomarkers. *J Athl Train*. 2015; 50: S-160.
61. Lepley LK, Wojtys EM, Palmieri-Smith RM. Combination of Eccentric Exercise and Neuromuscular Electrical Stimulation to Improve Knee Mechanics Post-ACL Reconstruction. *J Athl Train*. 2015; 50: S-160.
60. Lepley LK, Wojtys EM, **Palmieri-Smith RM**. Combination of Eccentric Exercise and Neuromuscular Electrical Stimulation to Improve Quadriceps Function Post-ACL reconstruction.

*J Athl Train.* 2014; 49(3): S-88.

59. Lepley LK and **Palmieri-Smith RM**. Concomitant Meniscectomy or Meniscal Repair Does Not Affect the Recovery of Quadriceps Function Post-ACL Reconstruction. *Med Sci Sport Exerc.* 2014; 49: S-201.
58. Lepley LK, **Palmieri-Smith RM**. Preoperative quadriceps activation is associated with postoperative activation, not strength, following ACL reconstruction. *J Athl Train.* 2013; 48: S-37.
57. Lepley LK, **Palmieri-Smith RM**. Quadriceps strength, not activation, improves in the unexercised limb following a single-legged eccentric exercise program. *Med Sci Sport Exerc.* 2013; 45(5S):349.
56. Lepley LK, **Palmieri-Smith RM**. Quadriceps Strength is Associated with Sagittal Plane Knee Angles and Moments During a Dynamic Landing Following Anterior Cruciate Ligament Reconstruction. *J Athl Train.* 2012; 47: S-146.
55. Lepley LK, **Palmieri-Smith RM**. Preoperative Quadriceps Strength is Associated with Postoperative Quadriceps Strength Following Anterior Cruciate Ligament Reconstruction. *Med Sci Sport Exerc.* 2012; 44: .
54. Thomas AC, Wojtys EW, Palmieri-Smith RM. Contributions of central activation failure and atrophy to quadriceps weakness associated with ACL reconstruction. *J Athl Train.* 2011; 46: S-102.
53. Klykken LW, Thomas AC, McLean SG, **Palmieri-Smith RM**. The effects of neuromuscular fatigue on knee biomechanics and muscle activity of ACL reconstructed patients. *J Athl Train.* 2011; 46: S-104.
52. Brown TN, McLean SG, **Palmieri-Smith RM**. Quadriceps activation predicts knee kinetics during single-leg landings. Proceedings of the American Society of Biomechanics. 2011.
51. Brown TN, **Palmieri-Smith RM**, McLean SG. Training-induced hip strength changes predict knee flexion and abduction moments during unilateral landings. *Proceedings of the XXIIth International Society of Biomechanics.* 2011.
50. Brown TN, **Palmieri-Smith RM**, McLean SG. Training-induced hip-extensor-flexor strength Ratio changes predict knee abduction moment during single-leg landings. *Med Sci Sports Exerc.*
49. **Palmieri-Smith RM**, Villwock M, Hecht G, Downie B, Zernicke R. Pain and effusion effects on quadriceps strength and activation. Proceedings of the Orthopaedic Research Society. 2011; 36: Abstract 1662.
48. Thomas AC, McLean S, **Palmieri-Smith RM**. Neuromuscular fatigue and quadriceps inhibition alter lower extremity biomechanics. Proceedings of the Orthopaedic Research Society. 2011; 36: Abstract 0394.
47. Kipp K, Brown TN, McLean SG, **Palmieri-Smith RM**. Altered knee muscle reflex activity during a cutting maneuver is influenced by motor learning not neuromuscular training. Proceedings of the American Society of Biomechanics. 2010.
46. Beaulieu ML, Brown TN, **Palmieri-Smith RM**, McLean SG. Relationship between knee mechanics during a jump landing task and hip strength varies across maturation. *Med Sci Sport Exerc.* 2010; 42(5): 93.
45. Brown TN, McLean SG, **Palmieri-Smith RM**. Lower extremity muscle activation changes following a standard six-week neuromuscular training program. *Med Sci Sport Exerc.* 2010; 42(5): 690-1.
44. Kipp K, McLean SG, Brown TN, **Palmieri-Smith RM**. Frontal-plane knee motion during

- anticipated and unanticipated cutting in recreational and elite female athletes. *Med Sci Sport Exerc.* 2010; 42(5): 680.
43. Thomas AC, Sowers MF, Karvonen-Gutierrez C, **Palmieri-Smith RM**. Quadriceps-hamstrings ratio is associated with knee adduction moment in women with knee osteoarthritis. *Med Sci Sport Exerc.* 2010;42(5): 93.
  42. Thomas AC and **Palmieri-Smith RM**. Subchondral bone contusions associated with ACL injury do not alter frontal plane knee biomechanics. *J Athl Train.* 2010; 45(3): S-74.
  41. Thomas AC, Sowers MF, Karvonen-Gutierrez, **Palmieri-Smith RM**. Quadriceps strength does not decrease with knee osteoarthritis progression. *Med Sci Sport Exerc.* 2009; 41(5): S-87.
  40. Brown TN, **Palmieri-Smith RM**, McLean SG. The effects of fatigue and decision making on lower limb kinematics after a neuromuscular training program. *Med Sci Sport Exerc.* 2009; 41(5): S-56.
  39. Thomas AC, **Palmieri-Smith RM**, McLean SG. Isolated hip and ankle fatigue alters lower extremity kinematics. *J Athl Train.* 2009; 44: S-64.
  38. **Palmieri-Smith RM** and Hopkins JT. Dynamic instability in patients with functional ankle instability. *J Athl Train.* 2008; 43: S-109.
  37. **Palmieri-Smith RM** and Hopkins JT. Neuromuscular dysfunction in persons with functional ankle instability. *Br J Sports Med.* 2008; 42: 537.
  36. Thomas AC, McLean SG, **Palmieri-Smith RM**. Isolated quadriceps and hamstrings fatigue alters hip and knee mechanics. *Med Sci Sport Exerc.* 2008; 40(5): S-49.
  35. Parekh J, **Palmieri-Smith RM**, McLean SG. Muscle pre-motor phase measures during a simple choice reaction task predict high risk knee landing mechanics. *Med Sci Sport Exerc.* 2008; 40(5): S-88.
  34. Brown TN, **Palmieri-Smith RM**, McLean SG. The effects of temporal changes in unanticipated stimuli on lower limb mechanics during jump landings. *Med Sci Sport Exerc.* 2008; 40(5): S-297.
  33. **Palmieri-Smith RM**, Wojtys EM, Ashton-Miller JA. Association between preparatory muscle activation and peak valgus knee angle. *Journal of Athletic Training.* 2007;42:S-77.
  32. Cordova ML, LeBlanc MJ, Ingersoll CD, Wojtys EM, **Palmieri-Smith RM**. Quadriceps and hamstrings muscle strength following ACL reconstruction: A meta-analysis of patellar tendon vs. semitendinosus tendon grafts. *Journal of Athletic Training.* 2007;42:S-85.
  31. Bowman TG, Hart JM, **Palmieri RM**, McGuire BA, Ingersoll CD. A repetitive throwing exercise protocol increases deceleration time from an internal rotation perturbation. *Journal of Athletic Training.* 2006;41:S-20.
  30. Scibek JS, Hughes RE, Carpenter JE, **Palmieri RM**, Brown SHC, Namesnik KT. Observed changes in scapulohumeral rhythm and movement velocity in rotator cuff tear patients following a subacromial injection. *Journal of Athletic Training.* 2006;40:S-35.
  29. **Palmieri RM**, Garrison JC, Leonard JL, Weltman A, Ingersoll CD. Peripheral joint cooling increases spinal reflex excitability and serum norepinephrine. *Journal of Athletic Training.* 2006;41:S-44.
  28. Silcox KM, Garrison JC, **Palmieri RM**, Fujiwara L, Ingersoll CD. Plyometric training alters hamstring activity during a landing task. *Journal of Athletic Training.* 2006;40:S-69.
  27. Weniger GR, Leonard JL, **Palmieri RM**, Saliba EN, Ingersoll CD. A two-week static stretching program does not decrease quadriceps muscle inhibition in patients with patellofemoral pain syndrome. *Journal of Athletic Training.* 2006;40:S-87.



26. Swaney MR, McVey ED, **Palmieri RM**, Parente WR, Ingersoll CD. Core stabilization training does not increase ball velocity or number of pitches thrown in overhead athletes. *Journal of Athletic Training*. 2006;40:S-88.
25. Aumann KB, Hart JM, **Palmieri RM**, Kerrigan DC, Ingersoll CD. Hip flexor fatiguing exercise does not affect lumbar forward lean in males with and without a history of low back pain. *Journal of Athletic Training*. 2006;40:S-105.
24. Berg CL, Hart JM, **Palmieri RM**, Cross KM, Ingersoll CD. Cryotherapy does not affect peroneal reaction time following sudden inversion. *Journal of Athletic Training*. 2005;40:S-36.
23. Tobianski NA, Livingston SC, **Palmieri RM**, Barth JT, Ingersoll CD. Soccer headgear increases peak acceleration of the head during purposeful heading. *Journal of Athletic Training*. 2005;40:S-43.
22. Golofski L, Garrison JC, **Palmieri RM**, Weltman A, Ingersoll CD. Differences in ACL stiffness at two points in the menstrual cycle in women taking oral contraception and women not taking oral contraception. *Journal of Athletic Training*. 2005;40:S-117.
21. Oliver CL, Leonard JL, **Palmieri RM**, McGuire B, Ingersoll CD. Wrist flexor strength is not related to ulnar collateral ligament strain. *Journal of Athletic Training*. 2005;40:S-117.
20. Ingersoll CD, Weltman A, Edwards JE, Tom JA, Saliba EN, Mistry DJ, **Palmieri RM** (2004). An experimental knee joint effusion does not affect plasma catecholamine concentration. *Medicine & Science In Sports & Exercise*. 2004; 36:S-301.
19. Garrison JG, Ingersoll CD, Hart J, **Palmieri RM**, Boxer J. Comparison of knee joint moments in male and female varsity collegiate soccer players during a single-leg landing. *Medicine & Science In Sports & Exercise*. 2004; 36:S-347.
18. **Palmieri RM**, Tom JA, Edwards JE, Weltman A, Saliba EN, Mistry DJ, Ingersoll CD (2004). Soleus arthrogenic muscle response is mediated by pre- and post-synaptic spinal mechanisms. *Medicine & Science In Sports & Exercise*. 2004; 36:S-165.
17. **Palmieri RM**, Weltman A, Edwards JE, Tom JA, Saliba EN, Mistry DJ, Ingersoll CD. Pre-synaptic modulation of quadriceps arthrogenic muscle inhibition. *Journal of Athletic Training*. 2004;39:S-70.
16. Ingersoll CD and **Palmieri RM**. Intersession reliability of a protocol to assess reflex activation history in the vastus medialis. *Journal of Athletic Training*. 2004;39:S-70.
15. McVey ED, **Palmieri RM**, Docherty CL, Zinder SM, Ingersoll CD. Arthrogenic muscle inhibition is present in patients exhibiting functional ankle instability. *Journal of Athletic Training*. 2004;39:S-7.
14. Russell KA, **Palmieri RM**, Zinder SM, Ingersoll CD. Knee Flexion Angle Increases Valgus Knee Angle and Surface Gluteus Medius EMG Activity During a Single Leg Drop Jump. *Journal of Athletic Training*. 2004;39:S-35.
13. **Palmieri RM**, Ingersoll CD, Edwards JE, Hoffman MA, Stone MB, Babington JP, Cordova ML, Krause BA. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. *Journal of Athletic Training*. 2003;38: S-35.
12. Campbell HL, Cordova ML, Ingersoll CD, Demchak TJ, **Palmieri RM**. A cryokinetics protocol does not affect quadriceps muscle fatigue. *Journal of Athletic Training*. 2003; 38: S-48.
11. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Ankle ice immersion facilitates the soleus Hoffmann reflex and muscle response. *Journal of Athletic Training*. 2003;38: S-48.
10. Hopkins JT and **Palmieri RM**. Effects of ankle joint effusion on lower leg function. *Medicine & Science In Sports & Exercise*. 2003. 25: S-18.

9. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Stone MB, **Palmieri RM**. Focal temperature change facilitates the peak-peak soleus Hoffmann reflex and muscle response. *Medicine & Science In Sports & Exercise*. 2003. 25: S-24.
8. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ, Stone MB, Krause BA. Artificial knee joint effusion improves postural steadiness. *Medicine & Science in Sports & Exercise*. 2002; 34: S-270.
7. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Joint cryotherapy modulates the soleus Hoffmann reflex and muscle response. *Medicine & Science in Sports & Exercise*. 2002; 34: S-89.
6. Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, **Palmieri RM**, Cordova ML, Krause BA. A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability. *Medicine & Science in Sports & Exercise*. 2002; 34: S-232.
5. **Palmieri RM**, Ingersoll CD, Hoffman MA, Cordova ML, Porter DA, Edwards JE, Babington JP, Krause BA, Stone MB. Arthrogenic muscle response following artificial ankle joint effusion. *Journal of Athletic Training*. 2002; 37: S-25.
4. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Knee joint cryotherapy facilitates the vastus medialis Hoffmann reflex and muscle response. *Journal of Athletic Training*. 2002; 37: S-25.
3. Stone MB, Stemmans CL, Edwards JE, Ingersoll CD, **Palmieri RM**, Krause BA. Certified athletic trainers' perceptions of exercise associated muscle cramp. *Journal of Athletic Training*. 2002; 37: S-84.
2. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ. Prolonged ankle brace application does not affect the spectral qualities of postural sway. *Medicine & Science in Sports & Exercise*. 2001; 33: S-153.
1. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Ankle joint and triceps surae muscle cooling produce similar changes in the soleus H:M ratio. *Journal of Athletic Training*. 2001; 36: S-50.

### **Funded Grants**

1. *Blood flow restriction training to improve muscle function following ACL reconstruction*  
Source: University of Michigan (Mcubed program)  
PI: Palmieri-Smith  
Direct Costs: \$60,000
2. *Operant Conditioning of Motor Evoked Torque Responses to Improve Quadriceps function in Individuals with Anterior Cruciate Ligament Reconstruction*  
Source: Medical University of South Carolina  
PIs: Krishnan and Palmieri-Smith  
Total Costs: \$30,000
3. *Functional resistance training during gait: A novel intervention to improve knee function after ACLR*  
Source: National Institutes of Child Health and Human Development  
Direct Costs: \$250,000

### **Pending Grants**

1. *MiACLR: Michigan Initiative for ACL rehabilitation (R01)*  
Source: National Institutes of Child Health and Human Development

PI: Palmieri-Smith  
Total Costs: \$426,598 (Indirects = \$149,260)  
Scored: 16<sup>th</sup> percentile

### **Completed Grants**

16. *Restoration of Quadriceps Activation after ACL injury and surgery*  
Source: UM Bone & Joint Injury and Prevention Center  
PI: Riann M. Palmieri-Smith, Ph.D., ATC – 10% effort  
Period: October 31, 2007 to 2014  
Amount: \$40,000  
Aim: The goal of the project is to determine the impact of pre-operative NMES therapy on neuromuscular activation, atrophy, and functional outcomes.
  
15. *Quadriceps Inhibition after ACL Injury: Neuromuscular and Functional Consequences*  
Source: National Institutes of Health (NIAMS) K08  
PI: Riann M. Palmieri-Smith, Ph.D., ATC – 75% effort  
Period: April 19, 2008- March 31, 2013  
Amount: \$634,500  
Aim: The goal of the project was to determine the magnitude of quadriceps AMI necessary to alter lower extremity mechanics and to assess the feasibility of introducing NMES to reverse quadriceps weakness and restore knee kinematics
  
14. *The effect of geographic bone bruises on biological markers and MRI findings of osteoarthritis after anterior cruciate ligament injury*  
Source: National Football League Charities  
PI: Riann M. Palmieri, Ph.D., ATC  
Period: January 1, 2006- June 31, 2011  
Amount: \$125,000 (Direct Costs)  
Aim: The goal of this project is to determine whether geographic bone bruises that accompany anterior cruciate ligament injury result in pre-clinical signs of osteoarthritis.
  
13. *Post-traumatic osteoarthritis associated with ACL injury*  
Source: Rackham School of Graduate Studies  
PI: Riann M. Palmieri, Ph.D., ATC  
Period : March 1, 2006-2010  
Amount: \$12,650  
Aim: The overall goal of the proposed project is to determine the impact of an ACL rupture and associated lateral bone bruising on the integrity of knee joint articular cartilage and knee joint kinetics.
  
12. *The efficacy of neuromuscular estim for improving quadriceps activation*  
Source: Arthritis Foundation, Michigan Chapter  
PI: Riann M. Palmieri-Smith, Ph.D., ATC  
Period: July 1, 2007- December 31, 2009  
Amount: \$20,000

Aim: The goal of this project is to determine if neuromuscular electrical stimulation (NMES) is capable of reversing quadriceps arthrogenic muscle inhibition (AMI) and restoring function in a sample of patients with early radiographic evidence of medial tibiofemoral osteoarthritis (OA).

11. *Neuromuscular inhibition of the dynamic ankle stabilizers in patients with ankle instability*

Source: National Athletic Trainers' Research & Education Foundation

PI: Riann M. Palmieri, Ph.D., ATC

Period: July 1, 2006 – December 31, 2007

Aim: The goal of this project is to determine the role of the dynamic ankle stabilizers in resisting sudden ankle inversion during walking.

Amount: \$65,861 (Total costs)

10. *The effects of an experimentally induced increase in intra-articular pressure and quadriceps inhibition on knee joint kinematics and muscle activation*

Source: Office for the Vice President of Research, University of Michigan

PI: Riann M. Palmieri, Ph.D., ATC

Period: June 2005 – June 30, 2006

Amount: \$11,260

Aim: The goal of the project is to determine whether the quadriceps inhibition that results following an experimentally-induced increase in knee intra-articular pressure places the knee joint at risk for injury.

9. *Functional status and the menopause transition*

Source: National Institutes of Health (NIAMS – 5R01 AG17104)

PI: MaryFran Sowers, Ph.D.

Role: Co-investigator – 5% effort

Period: July 1, 2006 – June 30, 2011

Amount: \$1,348,624 (annual directs)

Aim: The major goals of this project are to characterize measures of physical functioning in a well-characterized cohort of women transitioning the menopause.

8. *Effects of SCENAR® therapy on acute ankle sprains*

Source: Samuel Eli Institute

Title: Effects of Scenar therapy on acute ankle sprains

PI: Ann Gill-Taylor, EdD, FAAN, RN (Riann Palmieri, Collaborator)

Period: 2003-2005

Amount: \$200,000 (Total Costs)

Aim: The major goal of this project is to determine if SCENAR® therapy will reduce pain and swelling, reverse muscle inhibition, improve ankle functional status, and shorten the recovery time following acute ankle sprains.

7. *Thermoregulatory, spinal, and neuroendocrine involvement in motoneuron pool facilitation during focal ankle joint cooling*

Source: U. of Virginia General Clinical Research Center/U. of Virginia School of Medicine

Principal Investigators: Riann Palmieri and Christopher Ingersoll

Period: 2003-2004

Amount: \$68,000 (Total Costs)

Aim: The major goal of this project is to determine the central mechanisms by which cryotherapy potentially acts to reverse muscle inhibition.

6. *The neuroendocrine response and spinal inhibitory processes involved in arthrogenic muscle response following an experimental knee joint effusion*  
Principal Investigators: Riann Palmieri and Christopher Ingersoll  
Source: U. of Virginia General Clinical Research Center/U. of Virginia School of Medicine  
Period: 2002-2004  
Amount: \$28,000 (Total Costs)  
Aim: The major goal of this project was to determine the neural networks involved in the quadriceps inhibition and soleus facilitation present with a knee joint effusion.
5. *Bilateral muscle inhibition following unilateral joint effusion*  
Source: Great Lakes' Athletic Trainers' Association  
Principal Investigator: Riann Palmieri  
Period: 2001  
Amount: \$1,000 (Total Costs)  
Aim: The goal of this project was to determine if joint effusion contributes to the presence of bilateral quadriceps muscle inhibition
4. *Arthrogenic muscle response following artificial ankle joint effusion*  
Source: Indiana State University Office of Sponsored Programs and ISU Graduate School Research Fund  
PI: Riann Palmieri  
Period: 2001  
Amount: \$500.00 (Sponsored Programs) and \$300.00 (Graduate School Research Fund)  
Aim: The goal of this project was to determine if ankle effusion results in a reflexive inhibition of the surrounding joint musculature.
3. *Arthrogenic muscle response following artificial ankle joint effusion*  
Source: Indiana State University Office of Sponsored Programs and ISU Graduate School Research Fund  
PI: Riann Palmieri  
Period: 2001  
Amount: \$500.00 (Sponsored Programs) and \$300.00 (Graduate School Research Fund)  
Aim: The goal of this project was to determine if ankle effusion results in a reflexive inhibition of the surrounding joint musculature.
2. *Artificial knee joint effusion increases postural steadiness.*  
Source: Indiana State University Graduate School Research Fund  
PI: Riann Palmieri  
Period: 2000  
Amount: \$400.00  
Aim: The goal of this project was to determine if knee joint effusion influenced proprioception and postural steadiness.
1. *Prolonged ankle brace application does not affect the spectral qualities of postural sway*

Source: Indiana State University Graduate School Research Fund

PI: Riann Palmieri

Period: 2000

Amount: \$150.00

Aim: To goal of this project was to determine if long-term ankle brace application interfered with the proprioceptive system's ability to control posture.

### **Invited Presentations**

14. Lepley LK, **Palmieri-Smith RM**. Maximizing muscle strength after ACL reconstruction: new insights to a clinical challenge. To be presented: NATA Annual Meeting 2016
14. **Palmieri-Smith RM**. The implications of post-traumatic osteoarthritis after an ACL injury. Pre-Conference Workshop on ACL Injuries. Team Concept Conference for Sports Physical Therapy. December 4, 2014.
13. **Palmieri-Smith RM**. Early considerations of ACL rehabilitation and Therapeutic Strategies for targeting arthrogenic muscle inhibition. Pre-Conference Workshop on ACL Injuries. Team Concept Conference for Sports Physical Therapy. December 4, 2014.
12. **Palmieri-Smith RM**, Hart JM, Pietrisimone B. Clinical Perspective and Emerging Concepts for Treating Muscle Dysfunction. Presented at NATA Annual Meeting. June 2014
11. **Palmieri-Smith RM**. Peripheral Triggers and Central Mechanisms of Arthrogenic Muscle Inhibition. Presented at the International Congress of Manual Therapy. Bologna, Italy. November 2012.
10. **Palmieri-Smith RM**. Therapeutic Strategies for Targeting Arthrogenic Muscle Inhibition. Presented at the International Congress of Manual Therapy. Bologna, Italy. November 2012.
9. **Palmieri-Smith RM**. Arthrogenic Muscle Inhibition and ACL Injury. Presented at the University of Delaware BIOMS seminar. October 2009.
8. **Palmieri-Smith RM**. Arthrogenic Muscle Inhibition: A Neuromuscular Consequence of Joint Injury. Presented at the ACSM Annual Convention, Indianapolis, IN, May 2008.
7. Ingersoll CD, **Palmieri-Smith RM**. Special Interest Group: Therapies to reverse muscle inhibition. Presented at the NATA Annual Convention, Anaheim, CA, June 2007.
6. **Palmieri-Smith RM**. Neuromuscular consequences of knee and ankle injury. Presented in the Distinguished Scholars Session at The NATA Annual Convention, Anaheim, CA, June 2007.
5. **Palmieri-Smith RM**. Arthrogenic Muscle Inhibition: A neuromuscular consequence of ankle injury? Presented at the 3<sup>rd</sup> International Ankle Symposium, Dublin, Ireland, August 2006.
4. **Palmieri RM**. Arthrogenic Muscle Inhibition: A Neuromuscular Consequence of Joint Injury. Presented at Pennsylvania State University's Kinesiology Graduate Colloquium, State Park, PA, March 2006.
3. **Palmieri RM**. Arthrogenic Muscle Inhibition: Sources and Implications for Rehabilitation. Presented at The Hope College Distinguished Lecture Series in Sports Medicine, Holland, MI, November 2005.
2. **Palmieri RM**, Hopkins JT, Ingersoll CD. Muscle inhibition following Joint Injury. Presented at the National Athletic Trainers' Association Annual Convention, Indianapolis, IN, June 2005.
1. Hopkins JT, Ingersoll CD, Krause BA, **Palmieri RM**. Arthrogenic muscle inhibition: Implications and intervention in joint injury. Presented at the Annual Meeting of the Midwest American College of Sports Medicine, Columbus, OH, October 2001.

### **Presentations**

77. Curran MT, Lepley LK, **Palmieri-Smith RM**. Continued Improvements in Quadriceps Strength and Knee Biomechanical Symmetry Over 18 Months: Time to Reconsider the 6-Month Return-to-Activity Guidelines? *NATA Annual Meeting and Symposium*. Baltimore, MD. June 2016.
76. Lepley LK and **Palmieri-Smith RM**. Maximizing muscle strength after ACLR: New insights to a clinical challenge. *NATA Annual Meeting and Symposium*. Baltimore, MD. June 2016.
75. **Palmieri-Smith RM**, Wojtys EM, Potter HG. Early Cartilage Changes Following ACL Injury/ Reconstruction: Evaluation With Imaging and Serum Biomarkers. *NATA Annual Meeting and Symposium*. St. Louis, MO June 25, 2015
74. Lepley LK, Wojtys EM, **Palmieri-Smith RM**. Combination of Eccentric Exercise and Neuromuscular Electrical Stimulation to Improve Knee Mechanics Post-ACL Reconstruction. *NATA Annual Meeting and Symposium*. St. Louis, MO. June 25, 2015
73. Failla M, Snyder-Mackler L, **Palmieri-Smith RM**. Comparison of Quadriceps Activation and Outcomes by Graft Type at Time of Return to Activity after ACLR. *Combined Sections Meeting of the American Physical Therapy Association*. Indianapolis, IN. February 2015.
72. Lepley LK, **Palmieri-Smith RM**. Quadriceps Strength, Not Volitional Muscle Activation, is the Primary Contributor to Physical Function Post-ACL Reconstruction. *University of Kentucky Center for Muscle Biology Research Day*. Lexington, KY. October 30, 2014.
71. Lepley LK, Wojtys EM, **Palmieri-Smith RM**. Combination of Eccentric Exercise and Neuromuscular Electrical Stimulation to Improve Quadriceps Function Post-ACL reconstruction. *NATA Annual Meeting and Symposium*. Indianapolis, IN. June 26, 2014.
70. Lepley LK and **Palmieri-Smith RM**. Concomitant Meniscectomy or Meniscal Repair Does Not Affect the Recovery of Quadriceps Function Post-ACL Reconstruction. *ACSM Annual Meeting*. Orlando, FL. May 28, 2014.
69. Lepley LK, **Palmieri-Smith RM**. Preoperative quadriceps activation is associated with postoperative activation, not strength, following ACL reconstruction. *NATA Annual Meeting and Symposium*. Las Vegas, NV. June 26, 2013
68. Lepley LK, **Palmieri-Smith RM**. Quadriceps strength, not activation, improves in the unexercised limb following a single-legged eccentric exercise program. *ACSM Annual Meeting, Indianapolis, IN. May 30, 2013*.
67. Lepley LK, **Palmieri-Smith RM**. Quadriceps Strength is Associated with Sagittal Plane Knee Angles and Moments during a Dynamic Landing Following Anterior Cruciate Ligament Reconstruction. Presented at the National Athletic Trainers' Association Annual Meeting and Symposium. St. Louis, MO. June 28, 2012.
66. Lepley LK, **Palmieri-Smith RM**. Preoperative Quadriceps Strength is Associated with Postoperative Quadriceps Strength Following Anterior Cruciate Ligament Reconstruction. Presented at the American College of Sport Medicine Annual Meeting. San Francisco, CA. May 31, 2012.
65. Thomas AC, Wojtys EW, Palmieri-Smith RM. Contributions of central activation failure and atrophy to quadriceps weakness associated with ACL reconstruction. Presented at NATA Annual Meeting, New Orleans, LA, June 2011.
64. Klykken LW, Thomas AC, McLean SG, Palmieri-Smith RM. The effects of neuromuscular fatigue on knee biomechanics and muscle activity of ACL reconstructed patients. Presented at NATA Annual Meeting, New Orleans, LA, June 2011.
63. Brown TN, McLean SG, **Palmieri-Smith RM**. Quadriceps activation predicts knee kinetics during single-leg landings. Presented at American Society of Biomechanics Annual Meeting, Long Beach, CA, August 2011.

62. Brown TN, **Palmieri-Smith RM**, McLean SG. Training-induced hip strength changes predict knee flexion and abduction moments during unilateral landings. Presented at the International Society of Biomechanics, Brussels, Belgium. 2011.
61. Brown TN, **Palmieri-Smith RM**, McLean SG. Training-induced hip-extensor-flexor strength ratio changes predict knee abduction moment during single-leg landings. Presented at ACSM Annual Meeting, Denver, CO, June 2010.
60. **Palmieri-Smith RM**, Villwock M, Hecht G, Downie B, Zernicke R. Pain and effusion effects on quadriceps strength and activation. Presented at Orthopaedic Research Society Annual Meeting, Long Beach, CA, January 2011. 36: Abstract 1662.
59. Thomas AC, McLean S, **Palmieri-Smith RM**. Neuromuscular fatigue and quadriceps inhibition alter lower extremity biomechanics. Presented at Orthopaedic Research Society Annual Meeting, Long Beach, CA, January 2011.
58. Kipp K, Brown TN, McLean SG, **Palmieri-Smith RM**. Altered knee muscle reflex activity during a cutting maneuver is influenced by motor learning not neuromuscular training. Presented at American Society of Biomechanics Annual Meeting, Providence, RI, August 2010.
57. Thomas AC and **Palmieri-Smith RM**. Subchondral bone contusions associated with ACL injury do not alter frontal plane knee biomechanics. Presented at NATA Annual Meeting, Philadelphia, PA, June 2010.
56. Beaulieu ML, Brown TN, **Palmieri-Smith RM**, McLean SG. Relationship between knee mechanics during a jump landing task and hip strength varies across maturation. Presented at ACSM Annual Meeting, Baltimore, MD, June 2010.
55. Brown TN, McLean SG, **Palmieri-Smith RM**. Lower extremity muscle activation changes following a standard six-week neuromuscular training program. Presented at ACSM Annual Meeting, Baltimore, MD, June 2010.
54. Kipp K, McLean SG, Brown TN, **Palmieri-Smith RM**. Frontal-plane knee motion during anticipated and unanticipated cutting in recreational and elite female athletes. Presented at ACSM Annual Meeting, Baltimore, MD, June 2010.
53. Thomas AC, Sowers MF, Karvonen-Gutierrez C, **Palmieri-Smith RM**. Quadriceps-hamstrings ratio is associated with knee adduction moment in women with knee osteoarthritis. Presented at ACSM Annual Meeting, Baltimore, MD, June 2010.
52. Thomas AC, **Palmieri-Smith RM**, McLean SG. Isolated hip and ankle fatigue alters lower extremity kinematics. Presented at NATA Annual Meeting, San Antonio, TX, June 2009.
51. Thomas AC, Sowers MF, Karvonen-Gutierrez, **Palmieri-Smith RM**. Quadriceps strength does not decrease with knee osteoarthritis progression. Presented at ACSM Annual Meeting, Seattle, WA, May 2009.
50. Brown TN, **Palmieri-Smith RM**, McLean SG. The effects of fatigue and decision making on lower limb kinematics after a neuromuscular training program. Presented at ACSM Annual Meeting, Seattle, WA, May 2009.
49. **Palmieri-Smith RM** and Hopkins JT. Dynamic instability in patients with functional ankle instability. Presented at NATA Annual Meeting, St. Louis, MO, June 2008.
48. **Palmieri-Smith RM** and Hopkins JT. Neuromuscular dysfunction in persons with functional ankle instability. Presented at World Congress on Sports Injury Prevention, Oslo, Norway, June 2008.
47. Thomas AC, McLean SG, **Palmieri-Smith RM**. Isolated quadriceps and hamstrings fatigue alters hip and knee mechanics. Presented at ACSM Annual Convention, Anaheim, CA, May 2008.



46. Parekh J, **Palmieri-Smith RM**, McLean SG. Muscle pre-motor phase measures during a simple choice reaction task predict high risk knee landing mechanics. Presented at ACSM Annual Convention, Anaheim, CA, May 2008.
45. Brown TN, **Palmieri-Smith RM**, McLean SG. The effects of temporal changes in unanticipated stimuli on lower limb mechanics during jump landings. Presented at ACSM Annual Convention, Anaheim, CA, May 2008.
44. **Palmieri-Smith RM**, McLean SG, Ashton-Miller SG, Wojtys EM. Gender differences in quadriceps and hamstring co-contraction patterns are associated with knee joint loading. Presented at ACL Retreat IV, Greensboro, NC, March 2008.
43. Brown TN, Palmieri-Smith RM, McLean SG. An unanticipated stimulus alters lower limb mechanics during single-leg landing. Presented at ACL Retreat IV, Greensboro, NC, March 2008.
42. Parekh JN, **Palmieri-Smith RM**, McLean SG. Fatigue-induced changes in central control increases non-contact ACL injury risk in females. Presented at ACL Retreat IV, Greensboro, NC, March 2008.
41. Thomas AC, McLean SG, **Palmieri-Smith RM**. Isolated quadriceps and hamstring fatigues alters hip and knee mechanics. Presented at ACL Retreat IV, Greensboro, NC, March 2008.
40. **Palmieri-Smith RM**, Wojtys EM, Ashton-Miller JA. Association between preparatory muscle activation and peak valgus knee angle. Presented at the National Athletic Trainers' Association Annual Convention, Anaheim, CA, June 2007.
39. Cordova ML, LeBlanc MJ, Ingersoll CD, Wojtys EM, **Palmieri-Smith RM**. Quadriceps and hamstrings muscle strength following ACL reconstruction: A meta-analysis of patellar tendon vs. semitendinosus tendon grafts. Presented at the National Athletic Trainers' Association Annual Convention, Anaheim, CA, June 2007.
38. McIntyre E, Ahmed AA, Youkeun O, Kreinbrink JE, **Palmieri RM**, Wojtys EM, Ashton-Miller JA. On changes in hamstring length during a simulated jump landing: An in vitro study. Presented at the 40<sup>th</sup> American Society of Biomechanics Annual Meeting, Blacksburg, VA, September 2006.
37. Bowman TG, Hart JM, **Palmieri RM**, McGuire BA, Ingersoll CD. A repetitive throwing exercise protocol increases deceleration time from an internal rotation perturbation. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
36. Scibek JS, Hughes RE, Carpenter JE, **Palmieri RM**, Brown SHC, Namesnik KT. Observed changes in scapulohumeral rhythm and movement velocity in rotator cuff tear patients following a subacromial injection. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
35. **Palmieri RM**, Garrison JC, Leonard JL, Weltman A, Ingersoll CD. Peripheral joint cooling increases spinal reflex excitability and serum norepinephrine. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
34. Silcox KM, Garrison JC, **Palmieri RM**, Fujiwara L, Ingersoll CD. Plyometric training alters hamstring activity during a landing task. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
26. Weniger GR, Leonard JL, **Palmieri RM**, Saliba EN, Ingersoll CD. A two-week static stretching program does not decrease quadriceps muscle inhibition in patients with patellofemoral pain syndrome. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.

32. Swaney MR, McVey ED, **Palmieri RM**, Parente WR, Ingersoll CD. Core stabilization training does not increase ball velocity or number of pitches thrown in overhead athletes. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
31. Aumann KB, Hart JM, **Palmieri RM**, Kerrigan DC, Ingersoll CD. Hip flexor fatiguing exercise does not affect lumbar forward lean in males with and without a history of low back pain. Presented at the National Athletic Trainers' Association Annual Convention, Atlanta, GA, June 2006.
30. Berg CL, Hart JM, **Palmieri RM**, Cross KM, Ingersoll CD. Cryotherapy does not affect peroneal reaction following sudden inversion. Presented at the National Athletic Trainers' Association Annual Convention, Indianapolis, IN, June 2005.
29. Tobianski NA, Livingston SC, **Palmieri RM**, Barth JT, Ingersoll CD. Soccer headgear increases peak acceleration of the head during purposeful heading. Presented at the National Athletic Trainers' Association Annual Convention, Indianapolis, IN, June 2005.
28. Golofski L, Garrison JC, **Palmieri RM**, Weltman A, Ingersoll CD. Differences in ACL stiffness at two points in the menstrual cycle in women taking oral contraception and women not taking oral contraception. Presented at the National Athletic Trainers' Association Annual Convention, Indianapolis, IN, June 2005.
27. Oliver CL, Leonard JL, **Palmieri RM**, McGuire B, Ingersoll CD. Wrist flexor strength is not related to ulnar collateral ligament strain. Presented at the National Athletic Trainers' Association Annual Convention, Indianapolis, IN, June 2005.
26. **Palmieri RM**, Tom JA, Edwards JE, Weltman A, Saliba EN, Mistry DJ, Ingersoll CD. Soleus arthrogenic muscle response is mediated by pre- and post-synaptic spinal mechanisms. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, June 2004.
25. Ingersoll CD, Weltman A, Edwards JE, Tom JA, Saliba EN, Mistry DJ, **Palmieri RM**. An experimental knee joint effusion does not affect plasma catecholamine concentration. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, June 2004.
24. Garrison JG, Ingersoll CD, Hart J, **Palmieri RM**, Boxer J. Comparison of knee joint moments in male and female varsity collegiate soccer players during a single-leg landing. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, June 2004.
23. **Palmieri RM**, Weltman A, Edwards JE, Tom JA, Saliba EN, Mistry DJ, Ingersoll CD. Pre-synaptic modulation of quadriceps arthrogenic muscle inhibition. Presented at the National Athletic Trainers' Association Annual Convention, Baltimore, MD, June 2004.
22. Ingersoll CD and **Palmieri RM**. Intersession reliability of a protocol to assess reflex activation history in the vastus medialis. Presented at the National Athletic Trainers' Association Annual Convention, Baltimore, MD, June 2004.
21. McVey ED, **Palmieri RM**, Docherty CL, Zinder SM, Ingersoll CD. Arthrogenic muscle inhibition is present in patients exhibiting functional ankle instability. Presented at the National Athletic Trainers' Association Annual Convention, Baltimore, MD, June 2004.
17. Russell KA, **Palmieri RM**, Zinder SM, Ingersoll CD. Knee Flexion Angle Increases Valgus Knee Angle and Surface Gluteus Medius EMG Activity During a Single Leg Drop Jump. Presented at the National Athletic Trainers' Association Annual Convention, Baltimore, MD, June 2004.
19. Garrison JG, Ingersoll CD, Hart J, **Palmieri RM**, Boxer J. Female collegiate soccer players produce greater knee internal rotation moments than their male counterparts during a single-leg

- landing. Presented at the Combined Sections of the American Physical Therapy Association, Nashville, TN, February 2004.
18. **Palmieri RM**, Ingersoll CD, Tom JA, Weltman AL, Edwards JE, Saliba EN. The neuroendocrine response and spinal inhibitory processes involved in arthrogenic muscle response following an experimental knee joint effusion. Presented at the General Clinical Research Center Annual Symposium, Charlottesville, VA, October 2003.
  17. **Palmieri RM**, Ingersoll CD, Edwards JE, Hoffman MA, Stone MB, Babington JP, Cordova ML, Krause BA. Arthrogenic muscle inhibition is not present in the limb contralateral to a simulated knee joint effusion. Presented at the National Athletic Trainers' Association Annual Convention, St. Louis, MO, June 2003.
  16. Campbell HL, Cordova ML, Ingersoll CD, Demchak TJ, **Palmieri RM**. A cryokinetics protocol does not affect quadriceps muscle fatigue. Presented at the National Athletic Trainers' Association Annual Convention, St. Louis, MO, June 2003.
  15. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Ankle ice immersion facilitates the soleus Hoffmann reflex and muscle response. Presented at the National Athletic Trainers' Association Annual Convention, St. Louis, MO, June 2003.
  14. **Palmieri RM**. Arthrogenic muscle inhibition: Implications in joint injury. Presented at the Arts and Sciences of Sports Medicine Conference, Charlottesville, VA, June 2003.
  13. Hopkins JT and **Palmieri RM**. Effects of ankle joint effusion on lower leg function. Presented at the Annual Meeting of the American College of Sports Medicine, San Francisco, CA, May 2003.
  12. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, Stone MB, **Palmieri RM**. Focal temperature change facilitates the peak-to-peak soleus Hoffmann reflex and muscle response. Presented at the Annual Meeting of the American College of Sports Medicine, San Francisco, CA, May 2003.
  11. **Palmieri RM**, Ingersoll CD, Hoffman MA, Cordova ML, Porter DA, Edwards JE, Babington JP, Krause BA, Stone MB. Arthrogenic muscle response following artificial ankle joint effusion. Presented at the National Athletic Trainers' Association Annual Convention, Dallas, TX, June 2002.
  10. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Knee joint cryotherapy facilitates the vastus medialis Hoffmann reflex and muscle response. Presented at the National Athletic Trainers' Association Annual Convention, Dallas, TX, June 2002.
  9. Stone MB, Stemmans CL, Edwards JE, Ingersoll CD, **Palmieri RM**, Krause BA. Certified athletic trainers' perceptions of exercise associated muscle cramp. Presented at the National Athletic Trainers' Association Annual Convention, Dallas, TX, June 2002.
  8. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ, Stone MB, Krause BA. Artificial knee joint effusion improves postural steadiness. Presented at the Annual Meeting of the American College of Sports Medicine, St. Louis, MO, May 2002.
  7. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Joint cryotherapy modulates the soleus Hoffmann reflex and muscle response. Presented at the Annual Meeting of the American College of Sports Medicine, St. Louis, MO, May 2002.
  6. Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, **Palmieri RM**, Cordova ML, Krause BA. A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability. Presented at the Annual Meeting of the American College of Sports Medicine, St. Louis, MO, May 2002.

5. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ, Stone MB, Krause BA. Artificial Knee Joint Effusion Improves Postural Steadiness. Presented at the Annual Meeting of the Midwest American College of Sports Medicine, Columbus, OH, October 2001.
4. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Joint cryotherapy modulates the soleus Hoffmann reflex and muscle response. Presented at the Annual Meeting of the Midwest American College of Sports Medicine, Columbus, OH, October 2001.
3. Stone MB, Vaughan MA, Ingersoll CD, Edwards JE, Babington JP, **Palmieri RM**, Cordova ML, Krause BA. A single dose of ginkgo biloba does not affect soleus motoneuron pool excitability. Presented at the Annual Meeting of the Midwest American College of Sports Medicine, Columbus, OH, October 2001.
2. **Palmieri RM**, Ingersoll CD, Cordova ML, Kinzey SJ. Prolonged ankle brace application does not affect the spectral qualities of postural sway. Presented at the Annual Meeting of the American College of Sports Medicine, Baltimore, MD, June 2001.
1. Krause BA, Ingersoll CD, Edwards JE, Cordova ML, **Palmieri RM**, Stone MB. Ankle joint and triceps surae muscle cooling produce similar changes in the soleus H:M ratio. Presented at the National Athletic Trainers' Association Annual Convention, Los Angeles, CA, June 2001.

### **Workshops**

1. The Hoffmann reflex: Applications in sports medicine research. Arts & Sciences of Sports Medicine, Charlottesville, VA, June 2003.

### **Teaching**

#### *University of Michigan, Department of Athletic Training,*

- AT 260 Introduction to Athletic Training
- AT 115 Prevention & Care of Athletic Injuries
- AT 210 Clinical Evaluation of Upper Extremity Athletic Injuries
- AT 375 Pathophysiology for the Allied Health Professions

#### *University of Virginia, Department of Human Services*

- EDHS 354 Neuromechanical Basis of Human Movement
- EDHS 451 Emergency Medical Care
- EDHS 451L Emergency Medical Care Laboratory
- EDHS 544-1 Athletic Injuries
- EDHS 544-2 Athletic Injuries Laboratory
- EDHS 750 Practicum in Sports Medicine
- EDHS 841 Orthopaedic Basis of Rehabilitation
- EDHS 850 Seminar: Current Topics in Athletic Training
- EDHS 950 Doctoral Seminar in Kinesiology

#### *Indiana State University, Department of Athletic Training*

- ATTR 210 Introduction to Analysis of Human Motion
- ATTR 212 Athletic Training and Emergency First Aid Lab
- ATTR 363 Athletic Injury Evaluation: Lower Extremity

ATTR 365 Athletic Injury Evaluation: Upper Extremity  
ATTR 475 Therapeutic Exercise  
ATTR 662 Athletic Trauma: Upper Extremity

### **Curriculum Development**

AT 375 Pathophysiology for the Allied Health Professions  
AT 420 Pharmacology for the Allied Health Professions  
AT 458 Clinical Evaluation of Upper Extremity Athletic Injuries  
AT 459 Clinical Evaluation of Upper Extremity Athletic Injuries Laboratory

### **Service**

#### *University of Michigan, School of Kinesiology*

Undergraduate Curriculum Committee, 2004-2005;  
Search Committee Chair – Athletic Training Tenure Track Faculty Position, 2005-2006  
Search Committee Member – Endowed Chair in Kinesiology, 2008-2009  
Graduate Committee, 2006-2008  
Search Committee Chair – Athletic Training Tenure Track Faculty Position, 2010.  
Search Committee Member – Biomechanics (Rehabilitation Robotics) Tenure Track Faculty Position, 2010-2011  
Executive Committee, 2010-2012; 2015-2017  
Curriculum Reform Committee Member, 2010-2012  
Curriculum & Instruction Committee, 2012-present  
Search Committee Chair- Biomechanics Faculty Position, 2014  
Biomechanics Search Committee Member, 2017

#### *University of Michigan*

Sports Injury Prevention Center Implementation Committee, 2006-2008  
Sports Injury Prevention Center Director Search, 2006-2007  
Bone & Joint Injury Prevention & Rehab Center Operating Committee, 2008-2011  
CTSA Research Committee, 2007-2009  
Health and Behavioral Sciences Institutional Review Board Member, 2010-present  
Health and Behavioral Sciences Institutional Review Vice Chair , 2017-present

#### *University of Virginia, Sports Medicine Program*

Graduate Selection Committee, 2003-2004

#### *Indiana State University, Athletic Training Department*

Assistant Professor Search Committee, 2000  
Assistant Athletic Trainer Search Committee, 2000  
Entry-level Curriculum Committee, 2000-2001  
Undergraduate Self Study Committee, 2000-2002  
Honors and Awards Committee, 2001-2002

#### *National Athletic Trainers' Association Research and Education Foundation*

Vice Chair of Grants, Research Committee, 2010 to present  
Research Committee Member, 2006 to present  
Free Communications Student Poster/Oral Adjudicator, 2004-2006  
Free Communications Moderator, 2004-present  
Workshop Moderator, 2005  
Free Communications Room Monitor, 2002-2004

*Manuscript Reviewer*

American Journal of Physical Medicine and Rehabilitation  
Archives of Physical Medicine and Rehabilitation  
American Journal of Sports Medicine  
Biomed Central Musculoskeletal Disorders  
Chronic Illnesses  
Clinical Neurophysiology  
Ergonomics  
European Journal of Applied Physiology  
International Journal of Sports Medicine  
Journal of Athletic Training  
Journal of Applied Biomechanics  
Journal of Applied Physiology  
Journal of Bone and Joint Surgery  
Journal of Orthopedic Research  
Journal of Rheumatology  
Journal of Sport Rehabilitation  
Journal of Sports Science and Medicine  
Medicine & Science in Sport & Exercise  
Muscle & Nerve  
Neuroscience Letters  
Osteoarthritis & Cartilage  
Perceptual and Motor Skills  
Sports Medicine

*Editorial Boards*

Editorial Assistant, Journal of Sport Rehabilitation, 2001-2004  
Section Editor, Journal of Athletic Training, 2004- 2008  
Associate Editor, Sports Health: A multi-disciplinary approach, 2008-present  
Editorial Board, Journal of Applied Biomechanics, 2009-present  
Editorial Board, Journal of Athletic Training, 2011-present

*Grant Application Reviewer*

University of Michigan, Office of Vice Provost for Research  
University of Michigan, Medical School  
University of Michigan, Dept. of Orthopaedic Surgery  
University of Utah, Center on Aging  
NATA Research & Education Foundation

## **Mentoring**

### *Post-Doctoral Scholars:*

**Kristof Kipp, Ph.D.** (2009-11) – National Institutes of Health T32 NRSA Post-Doctoral Fellow. Currently an Assistant Professor at Marquette University

**Scott Brown, Ph.D.** (2018-present)

### *Doctoral Students:*

**Abbey Thomas, PhD, ATC.** U. of Michigan School of Kinesiology. Currently an Assistant Professor at The University of North Carolina at Charlotte

**Tyler Brown, PhD.** U. of Michigan School of Kinesiology. Currently an Assistant Professor at University of Montana

**Lindsey Lepley, MEd, ATC.** U. of Michigan School of Kinesiology. Currently an Assistant Professor at The University of Connecticut

**Michael Curran, MS, ATC.** U. of Michigan School of Kinesiology. Current student in program

### *Doctoral Student Research Rotations:*

**Jessica Deneweth.** U. of Michigan School of Kinesiology.

**Melanie Beaulieu.** U. of Michigan School of Kinesiology.

**Robert Saner.** U. of Michigan School of Kinesiology.

### *Doctoral Student Dissertation Committees (not primary mentor):*

**Jason Scibek.** U. of Michigan School of Kinesiology, 2004

**Steve Collins.** U. of Michigan Dept. of Mechanical Engineering, 2008

**Pei-Chun Kao.** U. of Michigan School of Kinesiology, 2009

**Antoinette Domingo.** U. of Michigan School of Kinesiology, 2009

**Chad Tiernan.** U. of Michigan School of Kinesiology, 2012

**Min Huang.** U. of Michigan School of Kinesiology, 2010

**David Lipps.** U. of Michigan Dept. of Mechanical Engineering, 2012

**Karl Zelik.** U. of Michigan Dept. of Mechanical Engineering, 2012

**Mark Gordon.** U. of Michigan Dept. of Mechanical Engineering, 2012

**Jessica Deneweth.** U. of Michigan School of Kinesiology, 2014

**Melanie Beaulieu.** U. of Michigan School of Kinesiology, 2015

### *Master's Students Thesis Committees:*

**Alexa Johnson.** U. of Michigan School of Kinesiology, 2016

**H. Heo.** U. of Michigan School of Kinesiology, 2004

**Kate Aumann.** U. of Virginia Athletic Training, 2004

**Christine Berg.** U. of Virginia Athletic Training, 2004

**Tom Bowman.** U. of Virginia Athletic Training, 2004

**Lauren Golofski.** U. of Virginia Athletic Training, 2004

**Carrie Oliver.** U. of Virginia Athletic Training, 2004

**Blair Putnam.** U. of Virginia Athletic Training, 2004

**Keith Silcox.** U. of Virginia Athletic Training, 2004  
**Michelle Swaney.** U. of Virginia Athletic Training, 2004  
**Grace Tessier.** U. of Virginia Athletic Training, 2004  
**Nick Tobianski.** U. of Virginia Athletic Training, 2004  
**Jerry Weniger.** U. of Virginia Athletic Training, 2004  
**Lauren Williams.** U. of Virginia Athletic Training, 2004  
**Eric McVey.** U. of Virginia Athletic Training, 2003  
**Kyla Russell.** U. of Virginia Athletic Training, 2003  
**Henry Wolfe.** U. of Virginia Athletic Training, 2003  
**Campbell H.** Indiana State University Athletic Training, 2002

*Undergraduate Student Research Experiences:*

**Stephanie Osmer.** U. of Michigan Athletic Training  
**Amber Radtke.** U. of Michigan Athletic Training  
**Kellen Lawless.** U. of Michigan Movement Science  
**Akhil Shah.** U. of Michigan Movement Science (UROP)  
**Jagbir Khangura.** U. of Michigan Movement Science (UROP)  
**Megan Collela.** U. of Michigan Movement Science (UROP)  
**Katherine Donnelly.** U. of Michigan Athletic Training  
**Jennifer Kurz.** U. of Michigan Athletic Training  
**Sabrina Silver.** U. of Michigan Movement Science (UROP)  
**James Bistolarides.** U. of Michigan Movement Science  
**Brigid Nash.** U. of Michigan Movement Science  
**Chie Tadaki.** U. of Michigan Movement Science  
**Ashley Lescanec.** U. of Virginia Sports Medicine  
**Alex Fierstein.** U. of Michigan Movement Science  
**Sarah Hilu.** U. of Michigan Movement Science (UROP)  
**Kyle Doubrava.** U. of Michigan LSA (UROP)  
**Shelby Ebenhoeh.** U. of Michigan LSA (UROP)  
**Meagan Strickland.** U. of Michigan LSA (UROP)  
**Nicole Jimenez.** U. of Michigan LSA (UROP)  
**John Redman.** U. of Michigan Kinesiology (UROP)  
**William Ballew.** U. of Michigan Kinesiology  
**Megan Kujawa.** U. of Michigan Kinesiology  
**Samuel Schroeder.** U. of Michigan LSA (UROP)  
**Hannah Swirple.** U. of Michigan Kinesiology

**Professional Affiliations/Licensure Information**

*National Athletic Trainers' Association, Certified Member, Certification number 069902719*  
*State of Michigan AT Licensure, License number 2601000867*  
*Commonwealth of Virginia Board of Medicine, Athletic Training Certification, Certification number 0126000339 (2002-2004)*  
*Virginia Athletic Trainers' Association, Certified Member, (2002-2004)*  
*American College of Sports Medicine, Member (2000-present)*  
*Indiana Athletic Training Board, Licensed Member, License number 36000808A (2001-2002)*



*Great Lakes' Athletic Trainers' Association, Certified Member (2000-2002; 2004-present)*  
*Indiana Athletic Trainers' Association, Certified Member (2000-2002)*  
*Pennsylvania Department of Health, Emergency Medical Technician (1998-2003)*