

TERESE L. CHMIELEWSKI

University of Florida
Department of Physical Therapy
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EDUCATION

- University of Delaware, Newark, DE* 1998-2002
Ph.D., Biomechanics and Movement Science
Dissertation: Dynamic Stability in ACL-Deficient Knees
Advisor: Lynn Snyder-Mackler, PT, ScD, FAPTA
- University of Alabama, Birmingham, AL* 1995-1996
Non-degree seeking
- Sports Physical Therapy Fellowship* 1996-1997
Sports Section, American Physical Therapy Association
Mentor: Kevin E. Wilk, PT, DPT
- College of St. Scholastica, Duluth, MN* 1987-1993
MA, Physical Therapy
BA, Health Science

PROFESSIONAL EXPERIENCE

- 2005-present **Affiliate Assistant Professor**, Department of Orthopaedics and Rehabilitation
University of Florida, Gainesville, Florida
- 2003-present **Assistant Professor**, Department of Physical Therapy
University of Florida, Gainesville, Florida
- 2002-2003 **Research Assistant Professor**, Department of Physical Therapy
University of Florida, Gainesville, Florida
- 2000-2002 **Clinical Consultant**, University of Delaware Physical Therapy Clinic
University of Delaware, Newark, DE
- 1998-2002 **Research Assistant**, Department of Physical Therapy
University of Delaware, Newark, DE
- 1998 **Clinical Instructor**, University of Delaware Physical Therapy Clinic
University of Delaware, Newark, DE
- 1996-1998 **Outpatient Clinical Coordinator**, Outpatient Rehabilitation
HealthSouth Sports Medicine and Rehabilitation, Birmingham, AL
- 1994-1995 **Research Assistant**, Biomechanics Lab
American Sports Medicine Institute, Birmingham, AL
- 1994-1996 **Staff Physical Therapist**, Outpatient Rehabilitation
HealthSouth Sports Medicine and Rehabilitation, Birmingham, AL

1993-1994 **Staff Physical Therapist**, Inpatient Rehabilitation
HealthSouth Sports Medicine and Rehabilitation, Birmingham, AL

CERTIFICATIONS

Board Certified Sports Clinical Specialist, American Physical Therapy Association, 1999

LICENSURE

Florida - licensed	2002-present
Delaware – licensed	1998-2002
Alabama – licensed	1993-1998
Minnesota – licensed	1993-1996

PUBLICATIONS

Refereed Journals

1. Ilfeld BM, Wright TW, Sessler TI, **Chmielewski TL**. Valid and relevant outcome measures are critical for objective hypothesis-testing. In press, *Anesthesia & Analgesia*.
2. Mizner RL, Kawaguchi JK, **Chmielewski TL**. Muscle strength in the lower extremity does not predict post-instruction improvements in the landing patterns of female athletes. In press, *J Orthop Sports Phys Ther*.
3. Preston SA, Trumble TN, Zimmel DN, **Chmielewski TL**, Brown MP, Hernandez JA. Lameness, athletic performance, and financial returns in yearling Thoroughbreds bought for the purpose of resale for profit. *J Am Vet Med Assoc*, 2008 Jan 1; 232(1):85-90.
4. Fregly BJ, Reinbolt JA, **Chmielewski TL**. Evaluation of a patient-specific cost function to predict the influence of foot path on the knee adduction torque during gait. *Computer Methods in Biomechanics and Biomedical Engineering*, 2008 Feb;11(1):63-71. Epub 2007 Oct 15.
5. Fregly BJ, Reinbolt JA, Rooney KL, Mitchell KH, **Chmielewski TL**. Design of patient-specific gait modifications for knee osteoarthritis rehabilitation. *IEEE Transactions on Biomedical Engineering*, 2007 Sep;54(9):1687-95. Erratum in: *IEEE Trans Biomed Eng*. 2007 Oct;54(10):1905.
6. **Chmielewski TL**, Snyder-Mackler L. Appropriate interpretation and application of a clinical classification scheme to describe dynamic knee stability after ACL injury. *Journal of Neurophysiology* 2007 Jul;98(1):557.
7. Reinbolt JA, Haftka RT, **Chmielewski TL**, Fregly BJ. A computational framework to predict post-treatment outcome for gait-related disorders. *Med Eng Phys*. 2008 May;30(4):434-43. Epub 2007 Jul 5.
8. Reinbolt JA, Haftka RT, **Chmielewski TL**, Fregly BJ. Are patient-specific joint and inertial parameters necessary for accurate inverse dynamics analyses of gait? *IEEE Transactions on Biomedical Engineering*, 2007 May;54(5):782-93.
9. Wikstrom EA, Tillman MD, **Chmielewski TL**, Cauraugh JH, Borsa PA. Dynamic postural stability deficits in subjects with self-reported functional ankle instability. *Medicine and Science in Sports and Exercise*, 2007 Mar;39(3):397-402.

10. **Chmielewski TL**, Hodges MJ, Horodyski MB, Conrad BP, Bishop MD, Tillman SM. Investigation of clinician agreement in evaluating movement quality during unilateral lower extremity functional tasks: a comparison of 2 rating methods. *Journal of Orthopaedic and Sports Physical Therapy*, 2007 Mar;37(3):122-129.
11. Ilfeld B, Vandeborne K, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, **Chmielewski TL**, Wright TW. Ambulatory continuous interscalene nerve blocks decrease the time to discharge readiness after total shoulder arthroplasty: a randomized, triple-masked, placebo-controlled study. *Anesthesiology* 2006; 105(5):999-1007.
12. **Chmielewski TL**, Myer GD, Kauffman D, Tillman SM. Plyometric exercise in the rehabilitation of athletes: Physiological responses and clinical application. *Journal of Orthopaedic and Sports Physical Therapy*; 36(5):308-19, 2006.
13. Wikstrom EA, Tillman MD, **Chmielewski TL**, Borsa PA. Measurement and evaluation of dynamic joint stability of the knee and ankle after injury. *Sports Medicine*; 36(5):393-410,2006.
14. Ilfeld BM, Wright TW, Enneking FK, Mace JA, Shuster JJ, Spadoni EH, **Chmielewski TL**, Vandeborne K. Total shoulder arthroplasty as an outpatient procedure using ambulatory perineural local anesthetic infusion: a pilot feasibility study. *Anesthesia and Analgesia*; 101(5):1319-22, 2005.
15. **Chmielewski TL**, Hurd WJ, Rudolph KS, Axe MJ, Snyder-Mackler L. Perturbation training improves knee kinematics and reduces muscle co-contraction after complete unilateral anterior cruciate ligament rupture. *Physical Therapy*; 85(8):740-54, 2005.
16. Farquhar S, **Chmielewski TL**, Snyder-Mackler L. Accuracy of predicting maximal quadriceps force from submaximal effort contractions after anterior cruciate ligament rupture. *Muscle and Nerve*, 32(4):500-505, 2005.
17. Hurd WJ, **Chmielewski TL**, Snyder-Mackler L. Perturbation-enhanced neuromuscular training alters muscle activity in female athletes. *Knee Surgery Sports Traumatology Arthroscopy*. Epub ahead of print 4 June 2005.
18. **Chmielewski TL**, Hurd WJ, Snyder-Mackler L. Elucidation of a potentially destabilizing control strategy in ACL deficient non-copers. *Journal of Electromyography and Kinesiology*; 15(1): 83-92, 2005.
19. **Chmielewski TL**, Ramsey DK, Snyder-Mackler L. Evidence for differential control of tibial position in perturbed unilateral stance after acute ACL rupture. *Journal of Orthopaedic Research*; 23(1): 54-60, 2005.
20. **Chmielewski TL**, Stackhouse S, Axe MJ, Snyder-Mackler L. A prospective analysis of incidence and severity of quadriceps inhibition in a consecutive sample of 100 patients with complete acute anterior cruciate ligament rupture. *Journal of Orthopaedic Research*; 22(5): 925-930, 2004.
21. Reinold MM, Wilk KE, Fleisig GS, Zheng N, Barrentine SW, **Chmielewski T**, Cody RC, Jameson GG, Andrews JR. Electromyographic analysis of the rotator cuff and deltoid musculature during common shoulder external rotation exercises. *Journal of Orthopaedic and Sports Physical Therapy*; 34: 385-394, 2004.
22. Hurd WJ, **Chmielewski TL**, Axe MJ, Davis I, Snyder-Mackler L. Difference in normal and perturbed walking kinematics between male and female athletes. *Clinical Biomechanics*; 19:465-472, 2004.
23. Lewek MD, **Chmielewski TL**, Risberg MA, Snyder-Mackler L. Dynamic knee stability after anterior cruciate ligament rupture. *Exercise and Sport Science Reviews*; 31:195-200, 2003.

24. **Chmielewski TL**, Wilk KE, Snyder-Mackler L. Changes in weight-bearing following injury or surgical reconstruction of the anterior cruciate ligament. *Gait and Posture*; 16(1): 87-95, 2002.
25. **Chmielewski TL**, Rudolph KS, Snyder-Mackler L. Mechanisms for the development of dynamic knee stability after acute ACL injury. *Journal of Electromyography and Kinesiology*; 12(4): 267-274, 2002.
26. Williams GN, **Chmielewski TL**, Rudolph KS, Buchanan TS, Snyder-Mackler L. Dynamic Knee Stability: Current theory and implications for clinicians and scientists. *Journal of Orthopedic and Sports Physical Therapy*; 31(10): 546-566, 2001.
27. **Chmielewski TL**, Rudolph KS, Fitzgerald GK, Axe MJ, Snyder-Mackler L. Biomechanical evidence supporting a differential response to acute ACL injury. *Clinical Biomechanics*; 16 (7): 586-591, 2001.

Monographs

Chmielewski TL, Hurd WJ. Rehabilitation of the ACL Deficient Knee. Orthopaedic Section, American Physical Therapy Association, Home Study Course. Anticipated publication 2009.

Chmielewski T, Snyder-Mackler L. Proprioception and neuromuscular control: Methods to detect deficits and treatment plans. Sports Section, American Physical Therapy Association, Home Study Course 2000.

Book Chapters

1. **Chmielewski TL**, Tillman SM, Snyder-Mackler L. Knee. In: Kolt G, Snyder-Mackler L (eds). *Physical Therapies in Sport and Exercise*, 2nd ed. London, Harcourt, 2007, pp. 382-401.
2. **Chmielewski TL**, Hurd WJ, Hewett TE, Snyder-Mackler L. Principles of neuromuscular control for injury prevention and rehabilitation. In: Magee DJ, Zachazewski JE, Quillen WS (eds). Scientific Foundations and Principles of Practice in Musculoskeletal Rehabilitation. Elsevier, Philadelphia, 2007, pp. 375-387.
3. **Chmielewski TL**, Ferber R. Rehabilitation of the female athlete. In: Harrelson G, Wilk KE, Andrews JR (eds). Rehabilitation of the Injured Athlete. Saunders, Philadelphia, 2004, p.315-328.
4. **Chmielewski TL**, Mizner RL, Padamonsky W Jr., Snyder-Mackler L. The knee. In: Kolt G, Snyder-Mackler L (eds). *Physical Therapies in Sport and Exercise*. London, Harcourt, 2003, pp. 379-398.
5. Snyder-Mackler L, **Chmielewski T**. Neuromuscular control of the ACL deficient knee: implications for the development of osteoarthritis. In: Hascall VC, Kuettner KE (eds). The Many Faces of Osteoarthritis. Berlin, Birkhauser Verlag, 2002, pp 465-472.
6. **Chmielewski TL**, Rudolph KS, Axe MJ, Fitzgerald GK, Snyder-Mackler L. Movement patterns of individuals with good potential to dynamically stabilize their knee after acute ACL rupture. In: Hascall VC, Kuettner KE (eds). The Many Faces of Osteoarthritis. Berlin, Birkhauser Verlag, 2002. pp. 461-463.
7. Wilk KE, **Chmielewski T**. Rehabilitation of the elbow in throwing athletes. In: Baker CL Jr., Plancher KD (eds). Operative Treatment of Elbow Injuries. New York, Springer-Verlag, 2001. pp. 309-320.

8. **Chmielewski T**, Snyder-Mackler L. Therapeutic exercise and functional progression of the shoulder. In: Tovin BJ, Greenfield BH (eds). Evaluation and Treatment of the Shoulder: An Integration of the Guide to Physical Therapist Practice. Philadelphia, FA Davis, 2001. pp. 379-396.
9. Wilk KE, Harrelson GL, Arrigo C, **Chmielewski T**. Shoulder rehabilitation. In: Andrews JR, Harrelson GL, Wilk KE (eds). Physical Rehabilitation of the Injured Athlete. Philadelphia, WB Saunders, 1998. pp. 478-553.
10. Wilk KE, **Chmielewski T**. Rehabilitation of the elbow. In: Canavan P (ed). Rehabilitation in Sports Medicine: A Comprehensive Guide. Stamford, Appleton and Lange, 1998. pp. 253-273.

Booklets

1. Andrews JR, **Chmielewski T**, Escamilla RF, et al (eds). *Conditioning Program for Baseball Pitchers*, published by American Sports Medicine Institute, 1st printing, 1997.
2. Co-author. *Preventive & Rehabilitative Exercise for the Shoulder & Elbow*, published by American Sports Medicine Institute, 5th printing, 1997.

Published Abstracts

1. **Chmielewski TL**, Jones D, Day T, Tillman SM, George SZ. The association of fear of reinjury and function during anterior cruciate ligament reconstruction rehabilitation. *J Orthop Sports Phys Ther* 2008, 38(1): A71-A72.
2. Lentz TA, Tillman SM, Moser MW, Indelicato PA, George SZ, **Chmielewski TL**. Identifying impairments that predict function: a preliminary step in developing return-to-sport guidelines for ACL reconstruction. *J Orthop Sports Phys Ther* 2008, 38(1): A71.
3. Harty CM, Kawaguchi, **Chmielewski TL**, Mizner R. Relationship Between Muscular Strength and Lower Extremity Posture of Female Athletes During Drop Vertical Jumps. *Med Sci Sports Exerc* 2007, 39:5; S23.
4. Fletcher RM, **Chmielewski TL**, Kawaguchi J, Mizner R. The Relationship Between Hip Mechanics and Knee Loading During Single Leg Landing in Female Athletes. *Med Sci Sports Exerc* 2007, 39:5;S22.
5. Speer SM, Kawaguchi J, **Chmielewski TL**, Mizner R. Can Muscular Strength Within the Kinetic Chain Predict Athletes' Improvement in Performance With Landing Training? *Med Sci Sports Exerc* 2007, 39:5; S23.
6. DuPont CE, **Chmielewski TL**, Kawaguchi J, Mizner R. Neuromuscular Control of the Lower Extremity by Female Athletes during a Step Down Task. *Med Sci Sports Exerc* 2007, 39:5; S263.
7. Hodges MJ, **Chmielewski TL**, Day TI, Tillman SM. Development of a rehabilitation outcomes database in an outpatient orthopedic facility. *Journal of Orthopaedic and Sports Physical Therapy*, 37 (1) A50, 2007.
8. **Chmielewski TL**, Day T, Tillman SM, Moser MW, George SZ. Fear of reinjury is a potential factor in functional outcome after anterior cruciate ligament reconstruction. *Journal of Orthopaedic and Sports Physical Therapy*, 37 (1) A74, 2007.
9. **Chmielewski TL**, Rivett JA, Bisop MD, Tillman SM. Gender differences in frontal plane hip angle during a lateral step down are not related to hip muscle strength. *Journal of Orthopaedic and Sports Physical Therapy*, 37 (1) A77, 2007.
10. Naugle K, Wikstrom E, Tillman M, **Chmielewski T**, Cauraugh J, Borsa P. Dynamic Postural Stability Index shows Deficits in Individuals with Functional Ankle Instability. *2006 South*

Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium, Conference Proceedings.

11. Fregly BJ, Reinbolt JA, Rooney KL, Michell KH, **Chmielewski TL**. Predicting patient-specific gait modifications for knee osteoarthritis rehabilitation. *Proceedings of the 7th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering*, 2006.
12. Fregly BJ, Reinbolt JA, Koh BI, **Chmielewski TL**. Evaluation of a patient-specific cost function to predict the influence of foot path on the knee adduction torque during gait. *Proceedings of the 7th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering*, 2006.
13. **Chmielewski TL**, Tillman SM, Cullaty MD, Rivett JA, Conrad BP, Bishop MD. The relationship among hip and trunk muscle performance and hip kinematics during lower extremity functional tasks. *Journal of Orthopaedic and Sports Physical Therapy* 36(1): A73, 2006.
14. Wright TW, Ilfeld BM, **Chmielewski TL**, Vandenborne K, Enneking FK. Outpatient Shoulder Arthroplasty Using Ambulatory Perineural Anesthetic Infusion. Annual Closed American Shoulder and Elbow Surgeons meeting, Palm Beach, Fl 11/9-11/12/2005. Paper #9 pages 44-45.
15. Ilfeld BM, Wright TW, Enneking FK, **Chmielewski TL**, Vandenborne K. The effects of ambulatory continuous interscalene nerve blocks on readiness-for-discharge following total shoulder arthroplasty: a randomized, double-blind, placebo-controlled pilot study. *Anesthesiology*, 2005.
16. **Chmielewski TL**, Horodyski MB, Soh C, Hodges MJ, Bishop MD. Comparison of numerical and qualitative methods for evaluating core strength. *Journal of Orthopaedic and Sports Physical Therapy* 34(1): A 33, 2004.
17. **Chmielewski TL**, Horodyski MB, Hodges MJ, Conrad BP, Bishop MD. Does the assessment of core strength identify frontal plane knee angle deviations? *Medicine and Science in Sports and Exercise* 36 (5): S152, 2004.
18. Hurd WJ, **Chmielewski TL**, Axe MJ, Snyder-Mackler L. Differences in walking kinematics between genders during disturbed walking. *Medicine and Science in Sports and Exercise* 36(5): S152, 2004.
19. Ilfeld BM, Wright TW, Enneking FK, Mace JA, Spadoni EH, **Chmielewski TL**, Vandenborne K. Effect of Interscalene Perineural Local Anesthetic Infusion on Postoperative Physical Therapy Following Total Shoulder Replacement, abstracted. RAPM, 2004.
20. **Chmielewski TL**, Hurd WJ, Snyder-Mackler L. Neuromuscular perturbation training decreases co-contraction in those with the potential to compensate well for ACL rupture. *Proceedings of the 15th ISEK Congress*, 2004, p 263.
21. Hurd WJ, **Chmielewski TL**, Snyder-Mackler L. Gender differences in muscle activity patterns during disturbed walking before and after perturbation enhanced neuromuscular training. *Proceedings of the 15th ISEK Congress*, p 263, 2004.
22. **Chmielewski TL**, Snyder-Mackler L. The effect of muscle recruitment strategies on knee stability after acute ACL rupture. *Medicine and Science in Sports and Exercise* 35 (5): S222, 2003.
23. **Chmielewski TL**, Snyder-Mackler L. Mechanism underlying the effect of neuromuscular training to prevent knee injury. *Journal of Orthopaedic and Sports Physical Therapy* 33(2): A-56, 2003.
24. **Chmielewski TL**, Snyder-Mackler L. Quadriceps inhibition in patients with acute

- ACL injury. *Journal of Orthopaedic and Sports Physical Therapy* 32(1): A-50, 2002.
25. **Chmielewski TL**, Fitzgerald GK, Rudolph KS, Snyder-Mackler L. The effect of perturbation training on lower extremity muscle activation during walking and jogging in patients with acute ACL injury. *Journal of Orthopaedic and Sports Physical Therapy* 31(1): A-49, 2001.
 26. **Chmielewski TL**, Stackhouse S, Binder-Macleod SA, Johnson CD, Snyder-Mackler L. Predicting maximal voluntary isometric contraction (MVIC) of the quadriceps from submaximal contraction after ACL injury. American College of Sports Medicine Annual Meeting, Indianapolis, IN, May 2000.
 27. **Chmielewski TL**, Snyder-Mackler L, Chung M. Assessment of weight-bearing patterns in anterior cruciate ligament deficient and surgically reconstructed patients using the NeuroCom Balance Master®. *Journal of Orthopaedic and Sports Physical Therapy* 30(1): A-36, 2000.

SCIENTIFIC PRESENTATIONS (platform and poster presentations)

1. **Chmielewski TL**, Day T, Tillman SM, Moser MW, George SZ. Fear of reinjury is a potential factor in functional outcome after anterior cruciate ligament reconstruction. *Journal of Orthopaedic and Sports Physical Therapy*, 37 (1) A74, 2007.
2. **Chmielewski TL**, Rivett JA, Bisop MD, Tillman SM. Gender differences in frontal plane hip angle during a lateral step down are not related to hip muscle strength. *Journal of Orthopaedic and Sports Physical Therapy*, 37 (1) A77, 2007.
3. **Chmielewski TL**, Rivett JA, Cullaty MD, Bishop MD, Tillman SM. Contribution of trunk and hip muscle performance to single leg hop distance. American College of Sports Medicine, Denver, CO, June 2006.
4. **Chmielewski TL**, Tillman SM, Cullaty MD, Rivett JA, Conrad BP, Bishop MD. The relationship among hip and trunk muscle performance and hip kinematics during lower extremity. APTA Combined Sections Meeting, San Diego, CA, February 2006.
5. **Chmielewski TL**, Hurd W, Snyder-Mackler L. Neuromuscular perturbation training decreases co-contraction in those with the potential to compensate well for ACL rupture. 15th ISEK Congress, Boston, MA, June 2004.
6. **Chmielewski TL**, Horodyski MB, Soh C, Hodges MJ, Bishop MD. Does the assessment of core strength identify frontal plane knee angle deviations? 51st Annual Meeting American College of Sports Medicine, Indianapolis, IN, June 2004.
7. **Chmielewski TL**, Horodyski MB, Soh C, Hodges MJ, Bishop MD. Comparison of numerical and qualitative methods for evaluating core strength. APTA Combined Sections Meeting, Nashville, TN, February 2004.
8. **Chmielewski TL**, Snyder-Mackler L. The effect of muscle recruitment strategies on knee stability after acute ACL rupture. 50th Annual Meeting, American College of Sports Medicine, San Francisco, CA, May 2003.
9. Snyder-Mackler L, **Chmielewski TL**. Five-year prospective testing and classification of patients with complete acute ACL rupture. 4th Biennial Conference, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Auckland, New Zealand, March 2003.
10. **Chmielewski TL**, Snyder-Mackler L. Knee stiffening during unilateral standing in individuals with instability after acute ACL rupture. 4th Biennial Conference, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Auckland, New Zealand, March 2003.

11. **Chmielewski TL**, Snyder-Mackler L. Dynamic Stabilization: Muscular control of tibial translation after complete unilateral ACL rupture. 49th Annual meeting, Orthopaedic Research Society, New Orleans, LA, March 2003.
12. **Chmielewski TL**, Snyder-Mackler L. Mechanism underlying the effect of neuromuscular training to prevent knee injury. APTA Combined Sections Meeting, Tampa, FL, February 2003.
13. **Chmielewski TL**, Snyder-Macker L. Dynamic stabilization: Muscular control of tibial translation after complete unilateral ACL rupture. 49th Annual Orthopaedic Research Society Meeting, New Orleans, LA, February 2003.
14. **Chmielewski TL**, Snyder-Mackler L. Training-induced changes in knee stabilization strategies after ACL rupture. IV World Congress of Biomechanics, Calgary, Canada, August 2002.
15. **Chmielewski TL**, Snyder-Mackler L. Quadriceps inhibition in patients with acute ACL injury. APTA Combined Sections Meeting, Boston, MA, February 2002.
16. **Chmielewski TL**, Rudolph KS, Fitzgerald GK, Axe MJ, Snyder-Mackler L. Movement patterns of individuals with good potential to dynamically stabilize their knee after ACL rupture. "The Many Faces of Osteoarthritis": An International Conference to Honor Klaus Kuettner, Lake Tahoe, CA, June 2001.
17. **Chmielewski TL**, Fitzgerald GK, Rudolph KS, Snyder-Mackler L. The effect of perturbation training on lower extremity muscle activation during walking and jogging in patients with acute ACL injury. APTA Combined Sections Meeting, San Antonio, TX, February 2001.
18. **Chmielewski TL**, Stackhouse S, Binder-Macleod SA, Johnson CD, Snyder-Mackler L. Predicting maximal voluntary isometric contraction (MVIC) of the quadriceps from submaximal contraction after ACL injury. American College of Sports Medicine Annual Meeting, Indianapolis, IN, May 2000.
19. **Chmielewski TL**, Snyder-Mackler L, Chung M. Assessment of weight-bearing patterns in anterior cruciate ligament deficient and surgically reconstructed patients using the NeuroCom Balance Master®. APTA Combined Sections Meeting, New Orleans, February 2000.
20. **Chmielewski T**, Manal TJ, Rudolph KS, Snyder-Mackler L. The effects of perturbation training on walking and jogging performance of patients with acute ACL injury. International Society of Biomechanics XVIIth Congress, Calgary, Canada, August 1999.
21. Wilk KE, **Chmielewski T**. Proprioceptive Exercises for ACL Deficient Patients. Physical Therapy '98: APTA Scientific Meeting and Exposition, Orlando, FL, June 1998.

INVITED LECTURES

International

Open and Closed Kinetic Chain Exercise in Rehabilitation, Rehabilitation After ACL Reconstruction with Hamstring Autograft, Scales for Measuring Function After ACL Reconstruction, Rehabilitation After Operative Treatment of Impingement, Rehabilitation After Open Stabilization of the Shoulder, The Place of Biomechanics in Sports Medicine. Third Asian Federation of Sports Medicine Congress, Muscat, Sultanate of Oman, January 2000.

National

1. ACL Injuries: Who Can Cope, ACL Injury Prevention Strategies. Team Concept Conference, Sports Section, American Physical Therapy Association, Las Vegas, NV, December 2006.
2. Rehabilitation Considerations for the Female Overhead Athlete. 21st Injuries in Baseball Course, American Sports Medicine Institute, Atlanta, GA, January 2003.
3. An Integrated Approach to OKC, CKC & Neuromuscular Exercise for ACL Rehabilitation. American College of Sports Medicine Annual Meeting, Baltimore, MD, June 2001.
4. Therapeutic Modalities. Hands II, HealthSouth Outpatient Division Clinical Education, Orlando, FL, October 1998.
5. Elbow Rehabilitation Following Selected Surgical Procedures. 16th Annual Injuries in Baseball Course, American Sports Medicine Institute, Birmingham, AL, January 1998.
6. Therapeutic Modalities, Alabama Association of Family Care Practitioners Annual Meeting. Perdido Beach, FL, May 1997.
7. Therapeutic Modalities. Hands III, HealthSouth Outpatient Division Clinical Education, St. Louis, MO, March 1997.
8. Recent Advances in Quadriceps Muscle Training. 15th Annual Injuries in Baseball Course, American Sports Medicine Institute, Birmingham, AL, January 1997.
9. New Concepts in Rehabilitation. The Sports Medicine and Soccer Symposium, SouthEastern Medical Association, Birmingham, AL, July 1996.
10. Adhesive Capsulitis, Indications/Contra-indications for Orthotics. Recent Advances in Rehabilitation Course, American Sports Medicine Institute, Birmingham, AL, May 1996.
11. Proprioception in the Upper Extremity. Shoulder I, HealthSouth Outpatient Division Clinical Education, Birmingham, AL, February 1996.

Local or Regional

1. Fear of Re-injury and Outcomes in Knee Rehabilitation. Brooks Research Seminar Series, Brooks Healthcare System, Jacksonville, FL, May 2008.
2. ACL Injuries: Who Can Cope? and ACL Rehab: Non & Post Operative. The 14th Annual Sports Medicine Symposium for the Health Care Professional, Current Concepts in Sports Medicine, Wellington Orthopaedic & Sports Medicine, Cincinnati, OH, February 2008.
3. Clinical Management of ACL Injuries. Department of Applied Physiology & Kinesiology, University of Florida, Gainesville, FL, October 2007.
4. Biomechanical Evaluation of the Athlete: Implications on Injury Prevention. Co-presentation with Susan Tillman. The Athletic Shoulder and Knee: Returning the Elite Athlete Back to Sports, Shands Rehab Centers Conference Series, Gainesville, FL, August 2007.
5. The Relationship Among Hip and Trunk Muscle Performance and Hip Kinematics During Lower Extremity Functional Tasks. Florida Physical Therapy Association, Gainesville Sub-district Meeting, Gainesville, FL, February 2006.
6. Neuromuscular Adaptations After Acute ACL Injury. Research Seminar Series, Department of Physical Therapy, University of Florida, Gainesville, FL, November 2002.
7. Elbow Rehabilitation. Department of Physical Therapy, University of Delaware, Newark, DE, June 2001.
8. Selecting and Training Candidates for Non-Operative Management of Anterior Cruciate Ligament Injury. Medical Aspects of Sports 32nd Annual Seminar, University of Delaware, Newark, DE, January 2001.
9. Therapeutic Exercise Prescription and Progression. Department of Physical Therapy,

- University of Delaware, Newark, DE, June 2000.
10. Elbow Rehabilitation. Department of Physical Therapy, University of Delaware, Newark, DE, June 2000.
 11. Basic Biomechanics. Department of Physical Therapy, University of Delaware, Newark, DE, September 1999.
 12. Elbow Rehabilitation. Department of Physical Therapy, University of Delaware, Newark, DE, June 1999.
 13. Dynamic Stability of the Shoulder. Department of Physical Therapy, University of Delaware, Newark, DE, June 1998.
 11. Therapeutic Modalities in Sports Medicine. American Sports Medicine Institute Fellows Lecture Series, Birmingham, AL, January 1997.
 12. Therapeutic Modalities in Sports Medicine. American Sports Medicine Institute Fellows Lecture Series, Birmingham, AL, November 1995.

CONTINUING EDUCATION COURSES TAUGHT

University of Florida Nicaragua Service Learning Project

February 2005 Co-instructor, Rehabilitation for Subacromial Impingement

HealthSouth, Inc., Outpatient Division Clinical Education

July 1998 Lead Instructor, Knee I
 March 1998 Lead Instructor, Knee I
 September 1997 Co-instructor, Knee III
 August 1997 Co-instructor, Shoulder I
 June 1996 Co-instructor, Foot and Ankle I

NorthEast Seminars

July 1996 Co-instructor, Recent Advances in the Evaluation and Treatment of the Shoulder and Knee
 August 1996 Co-instructor, Recent Advances in the Evaluation and Treatment of the Shoulder and Knee

TEACHING

University of Florida, Department of Physical Therapy, Gainesville, FL

Entry-level physical therapy curriculum

2006-present PHT 6771 Musculoskeletal Disorders II (4 credits)
 2006-present PHT 6770 Musculoskeletal Disorders I (2 credits)
 2002-2005 PHT 6724 Orthopedic Physical Therapy (6 credits)
 2002, 2003 PHT 5170 Biomechanics (guest lecturer for hip, knee, shoulder and elbow units)

Graduate curriculum

2003 PHT 6313 Neurological Aspects of Orthopedic Rehabilitation (3 credits)

University of Delaware, Department of Physical Therapy, Newark, DE

Entry-level physical therapy curriculum

1999-2001 PHYT 611 Clinical Management (1 credit)
 2000 PHYT 802 Medical Science II (teaching assistant)

2000 PHYT 608 Musculoskeletal Evaluation and Treatment (teaching assistant)
 1998-1999 PHYT 604 Functional Anatomy (teaching assistant)

SERVICE

Professional

2007-present Reviewer, Journal of Orthopaedic Research
 2007 Review, Journal of Applied Physiology
 2007 Reviewer, Journal of Sport Rehabilitation
 2006 Reviewer, Physiotherapy Theory and Practice
 2006,2008 Reviewer, Archives of Physical Medicine and Rehabilitation
 2005-present Reviewer, Physical Therapy in Sport
 2004-present Research Committee, Sports Section, American Physical Therapy Association
 2004, 2006 Moderator, Platform Presentations, APTA Combined Sections Meeting
 2003-present Editorial Review Board Member, Journal of Orthopaedic and Sports Physical Therapy
 2001-2003 Reviewer, Journal of Orthopaedic and Sports Physical Therapy

University/College

2004 Member, University Strategic Plan Review Committee
 2004 College Banner Bearer, Convocation and President's Inauguration
 2003-2004 Graduation Marshall
 2002 Member, Ad-hoc Committee on College Identification

Department

2008 Coordinator, Blood Borne Pathogens Training
 2008 Academic Appeal Committee
 2007 Faculty Practice Task Force
 2007 Entry-level Radiology Course Task Force
 2005-present Liaison, Nicaragua Project
 2004-present Member, Equipment and Inventory Committee
 2004-present Faculty, Nicaragua Project 2005
 2004 Faculty, Interdisciplinary Family Health
 2003-2004 Member, Curriculum Committee
 2002-present Member, Orthopedic and Sports Physical Therapy Fellowship Committee and Sports Physical Therapy Fellowship Faculty Mentor
 2001-2003 Member, Accreditation Committee

Clinical

May 2008 Preparticipation athletic screenings (biomechanical analysis), University of Florida football (57 athletes)
 January 2008 Preparticipation athletic screenings (biomechanical analysis), University of Florida football (63 athletes) and softball (2 athletes)
 August 2007 Preparticipation athletic screenings (biomechanical analysis), University of Florida volleyball (10 athletes)
 May 2007 Preparticipation athletic screenings (biomechanical analysis), University of Florida football (59 athletes)

January 2007	Preparticipation athletic screenings (biomechanical analysis), University of Florida football (47 athletes)
July 2006	Preparticipation athletic screenings (biomechanical analysis), University of Florida football (31 athletes)
January 2006	Preparticipation athletic screenings (biomechanical analysis), University of Florida football (34 athletes)

FUNDED GRANTS

NFL Charities (Chmielewski) 11/9/2007-4/9/2009
 The Effect of Plyometric Exercise Intensity on Function & Articular Cartilage Metabolism after ACL Reconstruction
 The goal of this study is to compare the effect of low and high-intensity plyometric exercise on self-report of function and articular cartilage biomarkers in patients with ACL reconstruction.
 \$125,000

1R21HD053490 (Fregly) 9/12/2007-8/31/2009
 National Institutes of Health
 Real-Time Model-Based Gait Retraining for Knee Osteoarthritis Rehabilitation
 The goal of this study is to determine whether gait retraining reduces knee kinetics associated with knee OA progression and whether the gait modifications are maintained for at least one month after training.
 Role: Co-Investigator
 \$275,000

1K01HD052713 (Chmielewski) 9/30/2007-8/31/2012
 National Institutes of Health
 Muscle Weakness and Post-traumatic Knee OA
 The goal of this Mentored Research Scientist Development award is to gain skills in the conduct of clinical trials, assessment of articular cartilage morphology with magnetic resonance imaging (MRI), and biochemical analysis of articular cartilage and inflammatory markers. The effect of intensive quadriceps strengthening on knee function and articular cartilage structure will be investigated in patients with meniscectomy.
 \$487,907

Brooks Rehabilitation Research Endowment (Chmielewski) 4/1/2007-6/30/2009
 Brooks Healthcare System
 Urinary Levels of a Knee Osteoarthritis Biomarker in the Early Period after ACL Reconstruction
 The purpose of this pilot project is to compare urinary levels of a knee osteoarthritis biomarker (CTX-II) in patients with ACL reconstruction and uninjured controls. The secondary aim is to examine the relationship of urinary CTX-II levels with self-report of knee function in the patient group.
 \$40,000

Faculty Development Program (Bishop) 11/1/2003-10/31/2004
 University of Florida Academic Technology
 Interactive Clinical Case Studies

Role: Co-Investigator
\$10,000

2003 Research Opportunity Fund (Chmielewski) 4/1/2003-3/31/2004
University of Florida Division of Sponsored Research
Gender Differences in Core Strength
\$100,000

Small Grant Program (Chmielewski) 1/1/2001-12/31/2001
Sports Section, American Physical Therapy Association
Mechanisms Through Which Perturbation Training Increases Dynamic Stability in the Anterior
Cruciate Ligament Deficient Knee
\$1500

RESEARCH AND THESIS ADVISING

Undergraduate Honor's Thesis

2007-2008 Sarah Weisbruch, "The influence of psychosocial characteristics on
recovery after ACL reconstruction"
2007-2008 Michael Berman, "Functional movement analysis in pre-participation
athletic screenings"
2004-2005 Miral Patel, "The relationship between quadriceps strength and lower
extremity loading"

Sports Physical Therapy Residents

2008-2009 Debi Jones
2006-2007 Trevor Lentz
2005-2006 Joseph Rivett
2003-2004 Mary Gregory

Independent Study

2007 Seth Steinhauer, undergraduate, Health Sciences (1 credit)
2004 Carl Jehn, Master's student, Veterinary Medicine (3 credits)

PHT 6604 Development of a Case Study II

2008 Christopher Simms
2008 Debi Jones
2008 Jack Dunn
2006 Jackie Mataja
2006 Sheri Walters
2006 Michelle Sanchez
2006 Lindsey Facciolo
2006 Ken Byrd (Co-mentor with Steven George)
2005 Lindsay Wright
2005 Cassie Sloan
2004 Beth Kintzer
2004 Heidi Betz

Master's of Health Science

2002-2003 Michael Hodges, Chair
2002-2003 Supriya Shidore, Committee Member

Rehabilitation Science Degree

2007-present Patty Hovis, Chair
2004-present Matthew Morgan, Committee Member

External Committee Member

2007-present Michael Fattey, PhD, Mechanical Engineering
2007-present Stephanie Preston, PhD, Veterinary Medicine
2004-2007 Erik Wikstrom, PhD, Applied Physiology & Kinesiology
2004-2005 Gerard Rozea, PhD, Applied Physiology & Kinesiology
2002-2003 Bernadette Buckley, PhD, Applied Physiology & Kinesiology

HONORS AND AWARDS

Feb 2008 James A. Gould Excellence in Teaching Orthopaedic Physical Therapy,
Orthopaedic Section, American Physical Therapy Association
Feb 2008 Senior author, Excellence in Research Award, Sports Section, American Physical
Therapy Association
April 2004 Alumni of the Month, College of St. Scholastica
2001-2002 Promotion of Doctoral Studies, PODS II scholarship, American Physical Therapy
Association, \$7500

PROFESSIONAL MEMBERSHIPS

2000- 2006 American College of Sports Medicine
1993-present American Physical Therapy Association
2003-present Orthopaedic Section
2000-2003 Section on Administration
1999-present Research Section
1996-present Sports Section