CURRICULUM VITAE
Mark D. Tillman

ADDRESS

University of Florida
Applied Physiology and Kinesiology
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PERSONAL INFORMATION

Born: July 2, 1970, Ft. Lee, Virginia

EDUCATION

Ph.D. University of Florida, August 1999
Major: Health and Human Performance
Specialization: Biomechanics
Dissertation Title: "Gender differences and predisposition toward a mechanism of anterior cruciate ligament injuries: A biomechanical and anthropological approach."

M.S. University of Florida, August 1995
Major: Engineering Mechanics
Specialization: Biomechanics

B.S. University of Florida, May 1994
Major: Engineering Sciences
Specialization: Biomedical Engineering
Honor Graduate

RESEARCH INTERESTS

My research is focused in two areas: lower extremity biomechanics and interdisciplinary biomechanics concentrating on special populations. The goals related to these topics are the same: *injury prevention* and improving *quality of life*. Concerning my primary research focus (lower extremity biomechanics); my collaborations with Biomechanists, Physical Therapists, Athletic Trainers, and Orthopedic Surgeons have resulted in publications and funding related to mechanisms of anterior cruciate ligament injury and functional measures of dynamic stability during landing tasks. As a secondary focus, I have worked with Physicians and Occupational Therapists to evaluate the functional outcomes of various therapeutic and surgical interventions for special populations (e.g. wheelchair users, knee replacement patients, and individuals with multiple sclerosis). More recently, I have begun to change my research focus toward conservative treatments of knee osteoarthritis.

ACADEMIC EMPLOYMENT HISTORY

Associate Professor, University of Florida, Applied Physiology and Kinesiology
August 2007 to present

Assistant Professor, University of Florida, Applied Physiology and Kinesiology
August 2000 to August 2007
Courses taught:
APK 2100/PET 2320 Applied Human Anatomy
APK 3220/PET 3340 Biomechanical Basis of Human Movement
PET 4948 Practicum in ESS
PET 6905 Directed Independent Study
PET 6910 Supervised Research
HSC 6905/4906 International Topics in Health and Human Performance
APK 6226 Biomechanics of Human Movement

Assistant Professor, Stetson University, Sport & Exercise Science
August 1999 to May 2000
Courses taught:
SES 303 Motor Learning and Development
SES 310 Human Anatomy & Physiology I-Lab
SES 311 Human Anatomy & Physiology II-Lab
SES 313 Kinesiology
SES 440 Special Topics in Biomechanics
SES 498 Senior Research

Instructor, University of Florida, Exercise and Sport Sciences
August 1998 to May 1999
Course taught:
PET 3340 Biomechanical Basis of Human Movement

Graduate Teaching Assistant, Anatomy Laboratory, University of Florida, August 1996 to May 1999
Course taught:
PET 2320 Applied Human Anatomy-Lab

Research Assistant, Biomechanics Laboratory, University of Florida, May 1998 to August 1998
Project: Gender differences and predisposition toward anterior cruciate ligament injury: A biomechanical and anthropological approach

Research Assistant, Motor Behavior Laboratory, University of Florida, November 1997 to January 1998
Project: Stroke Rehabilitation

Research Assistant, Paromed Medzinteknik, Neubeuern, Germany, April 1996 to July 1996

Graduate Teaching Assistant, Senior-level Engineering Design EGM 4000/4001,

University of Florida, May 1994 to May 1995

HONORS AND AWARDS

2008 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree
-awarded to faculty who have greatly influenced undergraduate students named as Anderson Scholars (GPA greater than 3.87/4.0 in their first two years)

2007 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2006-2007 College of Health and Human Performance Teacher of the Year

2006 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2005 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2004 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2003 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2002 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2001 Anderson/College of Liberal Arts and Sciences Scholar Faculty Honoree

2004 Distinguished Member of The National Society of Collegiate Scholars
-awarded for commitment to the ideals of Scholarship, Leadership, and Service

2003 Honorary Member of the Student Athletic Trainers Organization
-awarded for dedication and support of the athletic training program

2002-2003 College of Health and Human Performance Teacher of the Year

2002 Favorite Faculty Member as voted by Exercise & Sport Sciences Students

Norma M. Leavitt Graduate Scholarship, January 1998

President’s Honor Roll, 1994

Engineering Dean’s List, 1993-1994

Florida Undergraduate Academic Scholarship, 1988

GRANT ACTIVITY

Funded:

Summary of Grant Funding Received

ROLE	TOTAL	Direct Costs	Indirect Costs
Principal Investigator	$ 60,868	$ 59,512	$ 1,356
Co-Principal Investigator	$ 40,572	$ 28,944	$ 13,169
Investigator	$ 515,319	$ 435,311	$ 81,364
TOTALS	**$ 621,259**	**$ 528,267**	**$ 95,889**

1. **Tillman, M.D.-P.I.,** Chow, J.W., Sheu, J., & Hass, C.J. (2006). Effects of Whole-body Vibration on Spasticity, Gait, Balance, Flexibility, & Quality of Life in Individuals with Cerebral Palsy. HHP Research Opportunity Fund 2006. (funded, DC=$4,500).

2. Chow. J.W., Fournier, K.A., **Tillman, M.D.-co-investigator**, & Hass, C.J. (2006). Static and dynamic balance control in children with autism. Organization for Autism Research. ($2,000 funded, DC=$2,000).

3. Janelle, C.M. & **Tillman, M.D.-co P.I.** (2006). The Fizogen Strap: An effective means of enhancing anaerobic performance? Fizogen Precision Technologics. ($37,184 funded, DC=$25,556, IDC=$11,628).

4. Chow, J.W. & **Tillman, M.D.-co P.I.** (2005). Impact force attenuation properties of Comfihips^{TM} hip protectors. TransGlobal Orthopedics, LLC. ($4,929 funded, DC=$3,388, IDC=$1,541).

5. **Tillman, M.D.-P.I.**, Chow, J.W. (2005). Sagittal Knee Geometry and Extensor Mechanism of Pre and Postpubescent Individuals. RGP Research Opportunity Incentive Seed Fund. ($43,050 funded, DC=$43,050).

6. **Tillman, M.D.-P.I.**, Chow, J.W. (2004). Gender, maturation, bilateral symmetry and the knee extensor mechanism. HHP Research Opportunity Fund 2004. ($6,275 funded, DC=$6,275).

7. Levy, C.E., Giacobbi, P.R., Mann, W.C., Chow, J.W., & **Tillman, M.D.-co-investigator** (2005). The Impact of Power-Assist Wheelchairs on QOL. NIH R21: National Institutes of Health. ($333,811 funded: DC=$255,632, IDC=$78,179).

8. Chow, J.W., Wight, J.T., Grover, G.B., & **Tillman, M.D.-co-investigator** (2004). Exploring the Relationships Between Shoulder Flexibility and Mechanics of the Tennis Serve. United States Tennis Association. (funded: $5,980; DC=$5,200, IDC=$780).

9. Dover, G.C. Powers, M.E., & **Tillman, M.D**.**-co-investigator**. (2003). Comparison of shoulder and elbow joint position sense using a vibration stimulus. National Athletic Trainers Association Research and Education Foundation, (funded: $2,096, DC=$2,096).

10. Chmielewski, T., Horodyski, M., Bishop, M.D., **Tillman, M.D.-co-investigator,** Meister, K. & Soh, C. (2003). Gender Differences in Core Strength. Research Opportunity Fund 2003, (funded: $100,000; DC=$100,000).

11. Chow, J.W., Park, S., **Tillman, M.D.-co-investigator** (September 2001-December 2002). Lumbar spine kinematics and lower trunk muscle activity during different types of tennis serve. United States Tennis Association. (funded: $8,039; DC=$6,990, IDC=$1,049).

12. Chow, J.W., **Tillman, M.D. -co-investigator**, Vlasak, R. (August 2002-). Knee extensor mechanism in total knee replacement individuals. Research Opportunity Fund 2002. (funded: $25,000; DC=$25,000).

13. **Tillman, M.D.-P.I.,** Chow, J.W., & Hass, C.J. (September 2002-August 2003). The influence of joint position on lower extremity joint loads and muscle activity during exercise on a recumbent stepper and cycle ergometer. NuStep Inc. (funded: $11,543; DC=$10,187, IDC=$1,356).

14. Falsetti, A.B., Bauer, J.A., **Tillman, M.D. -co-investigator,** Smith, K.R., Kaminski, T.W., & Meister, K. (1998). Gender differences and predisposition toward anterior cruciate ligament injury: A biomechanical and anthropological approach. University of Florida Division of Sponsored Research #98050866 (funded: $26,850; DC=$26,850).

Not funded or pending:

1. Chow, J.W., Tillman, M.D., Hass, C.J., Otzel, D.M., Gonik, R., & Senesac, C. (2006). Effects of Whole-body Vibration on Spasticity, Gait, Balance, Flexibility, & Quality of Life in Individuals with Cerebral Palsy. UCP Research and Educational Foundation. ($99,921 not funded: DC=$87,279, IDC=$12,642).

2. Levy, C.E., Giacobbi, P.R., Chow, J.W., **Tillman, M.D.-co-investigator,** Mann, W.C., Brumback, B., & Hubbard, S. (2006). The Impact of Geared Manual Wheels on QOL. NIH R21: National Institutes of Health. ($365,931 not funded: DC=$275,000, IDC=$90,931).

3. Chow, J.W., Hass, C.J., **Tillman, M.D.-co-investigator.**, Okun, M.S., Skidmore, F., & Mulligan, T. (2006). Characteristics on Ramps in People with Parkinson's Disease. RGP Research Opportunity Incentive Seed Fund. ($78,010 not funded, DC=$78,010).

4. Skidmore, F.M., Mulligan, T., Heilman, K., Veldhuis, J., Fernandez, H., Crucian, G., Schmalfuss, C., **Tillman, M.D.-co-investigator**, Handberg, E., Chiara, T. (2006). The Impact of Treadmill Exercise on Neurologic and Endocrine Function in Advanced Parkinson's Disease. The American Parkinson's Disease Association: Cotzias Mentored Award. ($240,000 not funded: DC=$240,000).

5. Skidmore, F.M., Mulligan, T., Heilman, K., Veldhuis, J., Fernandez, H., Crucian, G., Schmalfuss, C., **Tillman, M.D.-co-investigator**, Handberg, E., Chiara, T. (2006). The Impact of Treadmill Exercise on Neurologic and Endocrine Function in Advanced Parkinson's Disease. The National Parkinson's Foundation: 2006-2007 Mega Grants Program. ($941,113 not funded: DC=$941,113).

6. Skidmore, F.M., Mulligan, T., Heilman, K., Veldhuis, J., Fernandez, H., Crucian, G., Schmalfuss, C., **Tillman, M.D.-co-investigator**, Handberg, E., Chiara, T. (2006). The Impact of Treadmill Exercise on Neurologic and Endocrine Function in Advanced Parkinson's Disease. Michael J. Fox Foundation for Parkinson's Research. ($743,110 not funded: DC=$595,288, IDC=$147,822).

7. **Tillman, M.D.-P.I.**, Chow, J.W., Hass, C.J., Bishop, M.D., Chmielewski, T. & Trindade, A.A. (2005). Sex differences and knee injuries: a maturation approach. NIH R01: The National Institute of Arthritis and Musculoskeletal and Skin Diseases. ($637,063 not funded: DC=$450,000; IDC=$187,063).

8. Chow, J.W., **Tillman, M.D.-co-investigator**, & Indelicato, P.A. (2004). Quadriceps Deficit in ACL-Reconstructed Knees. National Institutes of Health, ($395,179 not funded: DC = $275,000, IDC = $120,179).

9. Chow, J.W., **Tillman, M.D.-co-investigator**, & Borsa, P.A. (2004). Effects of ACL Reconstruction Using Patellar Tendon and Hamstring Autografts on Knee Extension Mechanics. The Aircast Foundation, ($99,941 not funded: DC = $85,717, IDC = $14,224).

10. Ferree, E.M., Chow, J.W., & **Tillman, M.D.-co-investigator**. (2004). Exercise Machine for Children with Disabilities. National Institutes of Health, [($124,625 pending: DC = $99,223, IDC = $20,439), subcontract to Chow & Tillman: ($48,240 not funded: DC = $33,155, IDC = $15,085)].

11. Levy, C.E., Chow, J.W., **Tillman, M.D.-co-investigator**, Giacobbi, P., Wu, S., & Mann, W.C. (2004). The Impact of Power Assist Wheelchairs on Quality of Life – A Pilot Study. Independence Technology, ($40,000 not funded: DC = $36,364, IDC = $3,636).

12. Gibson, H.J., Williams, S.K., **Tillman, M.D.-co-P.I.**, Todorovich, J., Chen, W.W., Grist, R.R., & Zwick, P. (2004). Are Older Rural Floridians Physically Active? Objective and Perceptual Evaluations of Environmental Influence. Active Living Research: The Robert Wood Johnson Foundation. ($164,423 not funded: DC=$152,961, IDC=$11,462).

13. **Tillman, M.D.-P.I.**, Chow, J.W. (2004). Gender, maturation and the knee extensor mechanism. Research Opportunity Fund 2004. ($50,750 not funded, DC=$50,750).

14. **Tillman, M.D.-P.I.**, Wikstrom, E.A., Chmielewski, T., & Borsa, P. (2004). Does Augmented Feedback Improve Dynamic Stability? National Athletic Trainers Association Research and Education Foundation. ($1,635 not funded: DC=$1,635).

15. **Tillman, M.D.-P.I.**, Wikstrom, E.A., Chmielewski, T., & Borsa, P. (2004). Does Augmented Feedback Improve Dynamic Stability? Southeastern Athletic Trainers Association Research and Education Committee. ($735 not funded: DC=$735).

16. **Tillman, M.D.-P.I.**, Chow, J.W., Hass, C.J., Bishop, M.D., Buckley, B.D., & Trindade, A.A. (2003). Sex differences and knee injuries: a maturation approach. NIH R01: The National Institute of Arthritis and Musculoskeletal and Skin Diseases. ($586,350 not funded: DC=$400,000; IDC=$186,350).

17. Levy, C.E., Chow, J.W., **Tillman, M.D.-co-investigator**, Giacobbi, P., Wu, S., & Mann, W.C. (2003). The Impact of Power Assist Wheelchairs on Quality of Life. National Institutes of Health. ($398,376 not funded: DC=$274,742, IDC=$123,634).

18. Chow, J.W., **Tillman, M.D.-co-investigator,** Cauraugh, J.H., & Lovins, T. (2003). Mobility After Stroke: Effect of Aerobic Training Using a Recumbent Exercise Stepper. American Heart Association, (not funded: $119,900 requested).

19. Chow, J.W., Loos, C., & **Tillman, M.D.-co-investigator**. (2003). Effect of fatigue on impact force characteristics during running, marching, and hiking in military personnel. United States Army Medical Research and Materiel Command, (not funded: $88,655 requested).

20. Chow, J.W., **Tillman, M.D.-co-investigator,** Levy, C.E., Mann, W.C., Hanson, C. & Zhang, J.J. (2002). Comparison of Manual and Power-Assist Wheelchairs in Improving Independence. National Institute on Disability and Rehabilitation Research/U.S Department of Education, (not funded: $449,676 requested).

21. Chow, J.W., **Tillman, M.D.-co-investigator** (2002). Effects of ACL reconstruction using allografts and autografts on knee extension mechanics. The Whitaker Foundation, (not funded: $232,605 requested).

22. Chow, J.W., **Tillman, M.D. -co-investigator,** Park, S. (2002). Effect of ACL reconstruction on knee extension mechanics. NIH R03: The National Institute of Arthritis and Musculoskeletal and Skin Diseases. (not funded: $217,500 requested).

23. Chow, J.W., **Tillman, M.D.-co-investigator**, Levy, C.E., Mann, W.C., Hanson, C. (2002). Comparison of manual and power-assist wheelchairs in improving independence. National Institute on Disability and Rehabilitation Research Department of Education. (not funded: $446,142 requested).

24. Chow, J.W., **Tillman, M.D. -co-investigator,** Indelicato, P.A., & Meister, K. (2001). Effects of preset angular speed on knee joint forces during isokinetic knee extensions for uninjured and ACL-reconstructed knees. The Whitaker Foundation (not funded: $139,896 requested)

25. Kaminski, T.W., Dede, D.E., **Tillman, M.D. -co-investigator,** & Janelle, C.M. (2001). Understanding mild traumatic brain injury in women's soccer: A comprehensive approach involving neuropsychological performance, dynamic balance, biomechanical analysis and visual search patterns. Research Opportunity Fund 2001 (not funded: $81,211 requested; DC=$81,211).

26. Chow, J.W., **Tillman, M.D. -co-investigator,** Vlasak, R., & Fregly, B. (2001). Pre- and post-operation comparison of knee extensor mechanism in total knee replacement individuals. Research Opportunity Fund 2001 (not funded: $57,212 requested; DC=$57,212).

REFEREED PUBLICATIONS

1. Wikstrom, E.A., Tillman M.D., Chmielewski, T.L., Cauraugh, J.H., Naugle, K.E., & Borsa, P.A. (2009). Dynamic postural control but not mechanical stability differs among those with and without chronic ankle instability. Scandanavian Journal of Medicine and Science in Sports, (in press).

2. Tamse, T., **Tillman, M.D.,** Johnson, A.W., Abrams, G.L., Issa, I., Stopka, C.B. (2009). Supervised moderate intensity resistance exercise training improves strength in special Olympic athletes. Journal of Strength and Conditioning Research, (in press).

3. Conatser, P., **Tillman, M.D.,** Naugle, K.E., & Stopka, C.B. (2009). Athletic trainers' beliefs toward working with Special Olympics athletes. Journal of Athletic Training, 44(3), 279-285.

4. Wikstrom, E.A., **Tillman, M.D.,** Chmielewski, T.L., Cauraugh, J.H., Naugle, K.E., & Borsa, P.A. (2009). Self-assessed disability and functional performance in patients with and without ankle instability: A case control study. Journal of Orthopaedic and Sports Physical Therapy, 39(6), 458-467.

5. Gullett, J.C., **Tillman, M.D.,** Gutierrez, G.M., & Chow, J.W. (2009). A biomechanical comparison of back and front squats in healthy trained individuals. Journal of Strength and Conditioning Research, 23(1), 284-292.

6. Macheck, M.A., Stopka, C.B., **Tillman, M.D.,** Sneed, S.M., & Naugle, K.E. (2008). The effects of a supervised resistance-training program on special olympics athletes. Journal of Sport Rehabilitation, 17(4), 372-379.

7. Wikstrom, E.A., **Tillman, M.D.,** Schenker, S.M., & Borsa, P.A. (2008). Jump-landing direction influences dynamic postural stability scores. Journal of Science and Medicine in Sport, 11(2), 106-111.

8. Wikstrom, E.A., **Tillman, M.D.**, Schenker, S., & Borsa, P.A. (2008). Failed jump

landing trials: deficits in neuromuscular control. Scandinavian Journal of Medicine and Science in Sports, 18(1), 55-61.

9. Chow, J.W., Knudson, D.V., **Tillman, M.D.,** & Andrew, D.P.S. (2007). Pre- and post-impact muscle activation in the tennis volley: Effects of ball speed, ball size, and side of the body. British Journal of Sports Medicine, 14(11), 754-759.

10. Wikstrom, E.A., **Tillman, M.D.,** Chmielewski, T.L., Cauraugh, J.H., & Borsa, P.A. (2007). Dynamic postural stability deficits in subjects with self-reported ankle instability. Medicine & Science in Sports & Exercise, 39(3), 297-402.

11. Wikstrom, E.A., **Tillman, M.D.**, Chmielewski, T.L., & Borsa, P.A. (2006). Measurement and evaluation of dynamic joint stability of the knee and ankle after injury. Sports Medicine 36(5), 393-410.

12. Wikstrom, E.A., Arrigenna, M. **Tillman, M.D.,** & Borsa, P.A. (2006). Dynamic postural stability in subjects with braced, functionally unstable ankles. Journal of Athletic Training, 41(3), 245-250.

13. Wikstrom, E.A., **Tillman, M.D.,** Kline, K.J., & Borsa, P.A. Gender and limb differences in dynamic postural stability during landing. Clinical Journal of Sports Medicine, 16(4), 311-315.

14. Chow, J.W., Park, S., Wight, J.T., & **Tillman, M.D.** (2006). Reliability of a technique for determining sagittal knee geometry from lateral knee radiographs. The Knee, 13, 318-323.

15. **Tillman, M.D.,** Hass, C.J., Chow, J.W., Brunt, D. (2005). Coordinative actions of the lower extremity joints during locomotion and landings. Journal of Applied Biomechanics, 21(4), 359-370.

16. Wikstrom, E.A., **Tillman, M.D.**, Smith, A.N., & Borsa, P.A. (2005). A new force-plate technology measure of dynamic postural stability: The dynamic postural stability index. Journal of Athletic Training, 40, 305-309.

17. **Tillman, M.D.,** Bauer, J.A., Cauraugh, J.H., & Trimble, M.H. (2005). Differences in lower extremity alignment between males and females: Possible predisposing factors for knee injury. Journal of Sports Medicine and Physical Fitness, 45(3), 355-359.

18. Deane, R.S., Chow, J.W., **Tillman, M.D.,** & Fournier, K.A. (2005). Effects of hip flexor training on spring, shuttle run, and vertical jump performance. Journal of Strength and Conditioning Research, 19(3), 615-621.

19. Minnello, S., Dover, G.C., Powers, M., **Tillman, M.D.,** & Wikstrom, E.A. (2004). Does ankle cryotherapy affect dynamic stability of healthy subjects? Journal of Sport Rehabilitation, 14(3), 234-247.

20. Wikstrom, E.A., **Tillman, M.D.**, & Borsa, P.A. (2005). Detection of dynamic stability

deficits in subjects with functional ankle instability. Medicine & Science in Sports & Exercise, 37(2), 169-175.

21. Hass, C.J., Schick, E.A., **Tillman, M.D.,** Chow, J.W., Brunt, D., & Cauraugh, J.H. (2005). Maturation influences the biomechanics of drop landings in recreational female athletes. Medicine & Science in Sports & Exercise, 37(1), 100-107.

22. Gutierrez, G.M., Chow, J.W., **Tillman, M.D.,** McCoy, S., Castellano, V., & White, L. (2005). Resistance training improves gait kinematics in persons with multiple sclerosis. Archives of Physical Medicine and Rehabilitation, 86(9), 1824-1829.

23. Todorovich, J.R., Wirth, C.K., Zhang, J.J., **Tillman, M.D.,** & Fleming, D.S. (2004). Systematically measuring student persistence in physical education. Teaching Elementary Physical Education, 15(4), 28-30.

24. **Tillman, M.D**., Criss, R.M., Brunt, D., & Hass, C.J. (2004). Landing constraints influence ground reaction forces and lower extremity EMG in female volleyball players. Journal of Applied Biomechanics, 20, 38-50.

25. Wikstrom, E.A., Powers, M.E., & **Tillman, M.D.** (2004). The effect of isokinetic and functional fatigue protocols on dynamic stability during jump landings. Journal of Athletic Training, 39(3), 247-253.

26. **Tillman, M.D**., Hass, C.J., Brunt, D, & Bennett, G.R. (2004). Jumping and landing strategies in women's volleyball. Journal of Sports Science & Medicine, 3, 30-36.

27. Levy, C.E., Chow, J.W., **Tillman, M.D.,** Hanson, C., Donohue, T., & Mann, W. (2004). Variable ratio power assist wheelchair for elders eases wheeling over a variety of terrains. Archives of Physical Medicine and Rehabilitation, 85,104-112.

28. Hass, C.J., Schick, E.A., Chow, J.W., **Tillman, M.D**., Brunt, D., & Cauraugh, J.H. (2003). Lower Extremity Biomechanics: A Comparison between Prepubescent and Postpubescent Female Athletes During Stride Jumps. Journal of Applied Biomechanics, 19(2), 139-152.

29. Farrell, K.C., Reisinger, K.D., & **Tillman, M.D.** (2003). Force and repetition in cycling: Implications for iliotibial band friction syndrome. The Knee, 10(1), 103-109.

30. **Tillman, M.D.,** Chiumento, A.B., Trimble, M.H., Bauer, J.A., Cauraugh, J.H., Kaminski, T.W. & Hass, C.J. (2003). The effects of medially and laterally posted orthotics on tibiofemoral rotation in landing. Physical Therapy in Sport, 4(1), 35-40.

31. Bishop, M.D., Brunt, D., Kukulka, C., **Tillman, M.D.** & Pathare, N. (2003). Modulation of the braking impulse under the stance limb during unplanned gait termination in human subjects with parkinsonism. Neuroscience Letters, 348, 89-92.

32. Andrew, D.P.S., Chow, J.W., Knudson, D.V., & **Tillman, M.D.** (2003). Effect of ball size on player reaction and racquet acceleration during the tennis volley. Journal of Science & Medicine in Sport, 6(1), 104-114.

33. **Tillman, M.D.,** Fiolkowski, P., Bauer, J.A., & Reisinger, K.D. (2002). Kinetic and temporal changes during running on different surfaces. Sports Engineering, 5(3), 121-128.

34. **Tillman, M.D.,** Smith, K.R., Bauer, J.A., Cauraugh, J.H., Falsetti, A.B., & Pattishall, J.L. (2002). Differences in three intercondylar notch geometry indices between males and females: A cadaver study. The Knee, 9(1), 41-46.

35. **Tillman, M.D**., Hass, C.J., & Brunt, D. (2002). Volleyball landings may explain ACL gender gap. BioMechanics, 9(3), 87-93.

36. **Tillman, M.D.** & Chow, J.W. (2002). Applications of force-plate technology. Athletic Therapy Today, 7(6), 50-51.

37. **Tillman, M.D.** & Cauraugh, J.H. (2001). Reservations about conclusions from a computed tomography study on patellar taping and patellofemoral incongruence. American Journal of Sports Medicine, 29(6), 829-830.

38. Bauer. J.A. & **Tillman, M.D.** (2001). Tennis elbow: Not just for tennis players! Current Concepts: Official statements by the American College of Sports Medicine, October, 1-2.

39. **Tillman, M.D.,** Fiolkowski, P., Brunt, D., & Bauer, J.A. (2000). Changes in gait due to anterior knee instability. Physical Therapy Case Reports, 3(1), 11-16.

40. Bauer, J.A., Cauraugh, J.H., & **Tillman, M.D.** (2000). An insole pressure measurement system: Repeatability of postural data. Foot and Ankle International, 21(3), 53-58.

41. Bauer, J.A., Cauraugh, J.H., Kellogg, R. & **Tillman, M.D.** (1999). Gait analysis of the post-polio individual: Quantitative information for the patient and clinician. Orthopädie Technik, 6, 485-490.

PROFESSIONAL PRESENTATIONS

National:

1. Salmon, J.R. & **Tillman, M.D.** (2009, August). Does acute whole body vibration training improve physical performance for people with knee osteoarthritis? Poster presented at the 2009 American Society of Biomechanics Annual Meeting. State College, PA.

2. Mizell, R., Hass, C.J., Siders, R., & **Tillman, M.D.** (2009, August). Anticipatory effects on frontal plane kinematics during cutting movements. Poster presented at the 2009 American Society of Biomechanics Annual Meeting. State College, PA.

3. **Tillman, M.D.,** Vallabhajosula, S., Chow, J.W., Fournier, K.A., Giacobbi, P., Hubbard,

S. & Levy, C.E. (2009, May). Changes in upper extremity and trunk angular kinematics during power-assisted wheelchair use. Thematic poster presented at the 2009 American College of Sports Medicine Annual Meeting, Seattle, WA.

4. **Tillman, M.D.,** Chow, J.W., Fournier, K.A., Vallabhajosula, S., Giacobbi, P., Dietrich, F.D., Hubbard, S., & Levy, C.E. (2008, August). Changes in wheeling kinematics after 8 weeks of pushrim-activated power-assisted wheelchair use. Poster presented at the 2008 North American Congress on Biomechanics Meeting. Ann Arbor, MI.

5. **Tillman, M.D.,** Wikstrom, E.A., Chmielewski, T.L., Cauraugh, J.H., & Borsa, P.A. (2008, June). Dynamic postural stability in copers and individuals with chronic ankle instability. Poster presented at the 2008 American College of Sports Medicine Annual Meeting. Indianapolis, IN.

6. **Tillman, M.D.,** Wight, J.T., Grover, G.B., & Chow, J.W. (2007, June). Shoulder external rotation passive flexibility is altered by increased repetitions in tennis players. Poster presented at the 2007 American College of Sports Medicine Annual Meeting. New Orleans, LA.

7. **Tillman, M.D.,** Wight, J.T., Garbrecht, J.D., Reese, C., & Chow, J.W. (2006, September). Gender differences in geometric measures of knee extensor function. Podium presentation at the 2006 American Society of Biomechanics Annual Meeting. Blacksburg, VA.

8. **Tillman, M.D.,** Wight, J.T., Fichter, J.W., & Chow, J.W. (2006, June). Gender, bilateral symmetry, and the knee extensor mechanism. Poster presented at the 2006 American College of Sports Medicine Annual Meeting. Denver, CO.

9. **Tillman, M.D.,** Wikstrom, E.A., Kontos, D., Tarah, D., & Chow, J.W. (2005, June). Functional stability during jumps and jump landings: bilateral symmetry and gender comparisons. Thematic poster presented at the 2005 American College of Sports Medicine Annual Meeting. Nashville, TN.

10. **Tillman, M.D.,** Gullett, J.C., Gutierrez G.M., & Chow, J.W. (2004, September). Knee joint kinetics and lower extremity muscle activation during front and back squats. Poster presented at the 2004 American Society of Biomechanics Annual Meeting. Portland, OR.

11. **Tillman, M.D.,** Chow, J.W., Gutierrez, G.M., & Hass, C.J. (2004, June). Biomechaical comparison of two lower extremity exercise machines used for knee injury rehabilitation. Poster presented at the 2004 American College of Sports Medicine Annual Meeting. Indianapolis, IN.

12. **Tillman, M.D.** (2004, January). Commonly Used Equipment for collecting EMG. Oral presentation given at the 2004 Southeast American College of Sports Medicine Annual Meeting. Atlanta, GA. [Symposia: Recent Developments in Electromyography for Sports Medicine].

13. **Tillman, M.D.,** Chow, J.W., Gutierrez, G.M., & Hass, C.J. (2003, September). A comparison of lower extremity muscle activity during exercise on a cycle ergometer and recumbent stepper. Poster presented at the 2003 American Society of Biomechanics Annual Meeting, Toledo, OH.

14. **Tillman, M.D.,** Chow, J.W., Gutierrez, G.M., & Hass, C.J. (2003, June). The influence of seat position on lower extremity mechanics during recumbent stepping. Poster presented at the 2003 American College of Sports Medicine Annual Meeting. San Francisco, CA.

15. Chow, J.W., **Tillman, M.D.,** & Hass, C.J. (2003, June). Stability analysis of parallel and trap bar squats. Poster presented at the 2003 American College of Sports Medicine Annual Meeting. San Francisco, CA.

16. **Tillman, M.D.,** Chow, J.W., Norris, K.C., Reisinger, K.D., & Hass, C.J. (2002, June). An evaluation of hip strength in transfemoral amputees. Poster presented at the 2002 American College of Sports Medicine Annual Meeting. St. Louis, MO.

17. **Tillman, M.D.,** Hass, C.J., Brunt, D., & Miller, J. (2001, August). Prevalence of jumping and landing techniques in volleyball: An analysis of elite female volleyball players. Poster presented at the 2001 American Society of Biomechanics Annual Meeting. San Diego, CA.

18. **Tillman, M.D.,** Hass, C.J., Bauer, J.A., Trimble, M.H., & Pattishall, J.L. (2001, June). Lower extremity biomechanical alignment does not predict tibial rotation during dynamic activity. Poster presented at the 2001 American College of Sports Medicine Annual Meeting. Baltimore, MD.

19. **Tillman, M.D.,** Smith, K.R., Pattishall, J.L., Bauer, J.A., & Falsetti, A.B. (1999, October). Differences in intercondylar notch geometry between males and females. Poster presented at the 1999 American Society of Biomechanics Annual Meeting, Pittsburg, PA.

20. **Tillman, M.D.,** Fiolkowski, P., Murray, R.D., Bauer, J.A., & Reisinger, K.D. (1998, May). Changes in ground reaction forces during running on different surfaces. Poster presented at the 1998 American College of Sports Medicine Annual Meeting, Orlando, FL.

21. Bauer, J.A., Cauraugh, J.H., & **Tillman, M.D.** (1997, September). A new insole pressure measurement system: Repeatability of postural sway data. Poster presented at the 21st Annual Meeting of the American Society of Biomechanics, Clemson, SC.

22. Thomas, T. & **Tillman, M.D.** (1997, September). A kinematic analysis of obstacle clearance strategies in normal gait. Podium presentation at the 21st Annual Meeting of the American Society of Biomechanics, Clemson, SC.

23. **Tillman, M.D.** (1997, July). Human movement analysis: Injury assessment and prevention. Lecture presented at the Brazilian Workshop on Exercise Science, Gainesville, FL. [Invited]

International:

1. **Tillman, M.D.** (2006, March). Biomechanics for Clinical Populations: Power Assist Wheelchair Mechanics. Lecture presented at the Symposium on Exercise and Movement in cooperations with the Technische Universität Darmstadt; Darmstadt, Germany.

2. **Tillman, M.D.** (2005, May). Status and Information of the Department of Applied Physiology and Kinesiology at the University of Florida. Lecture presented at the Cooperative Agreement Symposium between the Universidade Estadual Paulista and the University of Florida, Rio Claro, Brazil.

3. **Tillman, M.D.,** Wikstrom, E.A., & Borsa, P.A. (2004, October). Detection of dynamic stability deficits in subjects with functional ankle instability. Oral presentation given at the 2nd International Ankle Symposium; Dover, Delaware.

4. **Tillman, M.D.** (2002, July). Hip torque profiles in above knee amputees. Lecture presented at the Symposium on Exercise and Movement in cooperation with the Technische Universität Darmstadt; La Clusaz, France.

5. **Tillman, M.D.** Fiolkowski, P., Brunt, D., & Bauer, J.A. (1998, August). Changes in gait due to anterior knee instability: A longitudinal case study. Poster presented at the 1998 Meeting of the North American Congress on Biomechanics, Waterloo, Ontario, Canada.

6. **Tillman, M.D.** (1996, July). Exercise and diabetes. Lecture presented at the Symposium on Exercise and Movement in cooperation with Technische Hochschule Darmstadt; La Clusaz, France.

PUBLISHED ABSTRACTS

1. Naugle, K.E., Wikstrom, E.A., **Tillman, M.D.,** Schenker, S.M., & Borsa, P.A. (2006). Jump Protocol Direction Does Not Affect Dynamic Postural Stability or EMG in Healthy Subjects. Journal of Athletic Training, S-101.

2. Dover, G.C., Borsa, P.A., **Tillman, M.D.,** & George, S.Z. (2006). Multiple Daily TENS Treatments For The Shoulder After Exercise-Induced Injury. Journal of Athletic Training, S-85.

3. Norton, C.E., **Tillman, M.D.,** Norton, C.A., & Chow, J.W. (2006). Effect of Loop-Strap Location on Facemask Removal Tool Performance Time. Journal of Athletic Training, S-57.

4. Chow, J.W., **Tillman, M.D.,** Fournier, K.A., Vallabhajosula, S., & Stancil, M. (2006). A Kinematic Comparison of Manual and Pushrim-Activated Power-Assisted Wheelchair Propulsion. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

5. Wight, J.T., Grover, G.B., Chow, J.W., & **Tillman, M.D.** (2006). Shoulder Maximum External Rotation in the Tennis Serve is not Related to Shoulder Passive External Rotation Flexibility. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics,

CD-ROM.

6. Forde, F., Chow, J.W., & **Tillman, M.D.** (2006). A Tibio-Femoral Joint kinetics Comparison of the Olumpic and Trap Bar Squats Between males and Females. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

7. Chow, J.W., Wight, J.T., Johnson, R.W., & **Tillman, M.D.** (2006). Loaded Patellar Tendon Lengths in ACL Reconstructed Knees. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

8. Otzel, D.M., Chow, J.W., & **Tillman, M.D.** (2006). Inter-day Reliability of Central Activation Ratio of Quadriceps in Healthy Young Adults. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

9. Park, S.A., **Tillman, M.D.**, & Chow, J.W. (2006). Effects of Limited Lower Back Motion on Soft Landing Mechanics. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

10. Fournier, K., Radonovich, K., **Tillman, M.D.**, & Chow, J.W. (2006). Ground Reaction forces During the Stance Phase of Gait of Young Autistic Children. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

11. Chow, J.W., Wight, J.T.., Mizell, R.A., & **Tillman, M.D.** (2006). Bilateral Comparison of Knee Extensor Mechanism and Patellar Tendon Length in Youngs Adults with Healthy Knees. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

12. Chow, J.W., Mizell, R.A., Wight, J.T.., & **Tillman, M.D.** (2006). Patellar Tendon is Extensible During maximum Effort Knee Extensions. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

13. Chow, J.W., Otzel, D.M., & **Tillman, M.D.** (2006). Bilateral Strength and Activation Characteristics of Quadriceps in Experienced Soccer Players: Implications on Return to Play Criteria. Proceedings of the 30th Annual Meeting of the American Society of Biomechanics, CD-ROM.

14. Wight, J.T., Grover, G.B., Chow, J.W., & **Tillman, M.D.** (2006). Shoulder External Rotation Flexibility in Tennis Players. Medicine and Science in Sports & Exercise, 38(5), S398.

15. Park, S-A., **Tillman, M.D.,** & Chow, J.W. (2006). Effects of Gender and Verbal instruction on Soft landing Biomechanics in Two Different Jumps. Medicine and Science in Sports & Exercise, 38(5), S266.

16. Naugle, K, Wikstrom, E.A., **Tillman, M.D.,** Chmielewski, T., Cauraugh, J.H., & Borsa. P.A. (2006). Dynamic Postural Stability Index shows Deficits in Individuals with Functional Ankle Instability. South Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium, Conference Proceedings, CD-ROM.

17. Wikstrom, E.A., **Tillman, M.D.,** Schenker, S., Kline, K, & Borsa, P.A. (2006). Neuromuscular control differences between Successful and Failed Jump Landing Trials. South Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium, Conference Proceedings, CD-ROM.

18. Dover, G.C., Conrad, B.P. **Tillman, M.D.,** Wikstrom, E.A., & Borsa, P.A. (2005). Comparison of shoulder and elbow joint position sense using a vibration stimulus. Journal of Athletic Training, 40(2), S-92.

19. Wikstrom, E.A., **Tillman, M.D.**, Kline, K.J., & Borsa, P.A. (2005). Gender and limb dominance comparisons of dynamic stability during jump landings. Journal of Athletic Training, 40(2), S-58.

20. Chow, J.W., Wight, J.T., **Tillman, M.D.**, Park, S.A., Mizell, R.D., & Woodruff, R.D. (2005). Intra-analyst reliability of a technique for determining sagittal knee geometry from lateral knee radiographs. Medicine and Science in Sports & Exercise, 37(5), S2111.

21. Fournier, K.F, **Tillman, M.D.**, & Chow, J.W. (2005). The influence of verbal instruction and vision on postural control strategies. Medicine and Science in Sports & Exercise, 37(5), S2180.

22. Gutierrez, G.M., Chow, J.W., **Tillman, M.D.**, & White, L.J. (2005). Effect of strength training on static balance in persons with multiple sclerosis – A preliminary study. Medicine and Science in Sports & Exercise, 37(5), S975.

23. Otzel, D.M., Chow, J.W., & **Tillman, M.D.** (2005). Bilateral comparison of knee flexion-extension isokinetic strength in soccer players. Medicine and Science in Sports & Exercise, 37(5), S801.

24. Wight, J.T., Grover, G.B., Chow, J.W., & **Tillman, M.D.** (2005). Arm cocking and upper torso rotation patterns associated with elbow varus torque in baseball pitching. Medicine and Science in Sports & Exercise, 37(5), S627.

25. Wikstrom, E., **Tillman, M.D.,** Smith, A.N., & Borsa, P.A. (2005). Reliability and validity of a new measure of dynamic stability: The dynamic stability index. Journal of Orthopaedic and Sports Physical Therapy, 35(5), A-27.

26. Chow, J.W., Otzel, D.M., & **Tillman, M.D.** (2005). An examination of return to play criteria for knee strength in experienced soccer players. International Society of Biomechanics in Sport.

27. Wikstrom E, **Tillman M.D.**, Kline K, Borsa P. (2005). Gender and limb differences in dynamic stability and energy absorption during landing. Proceedings of the South Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium, CD-ROM.

28. Arrigenna M, Wikstrom E, **Tillman M.D.**, Borsa P. (2005). Prophylactic ankle stabilizers do not alter dynamic stability in the functionally unstable ankle. Ankle Stabilizers Do Not Alter Dynamic Stability in the Functionally Unstable Ankle. Proceedings of the South Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium, CD-ROM.

29. Wrigley, W.M., Chow, J.W., **Tillman, M.D.,** & Siders, R.A. (2004). Effects of ankle stabilization on push-off mechanics from a three-point stance in football. Proceedings of the International Society of Biomechanics in Sport.

30. Chow, J.W., Park, S-A., **Tillman, M.D.,** & Grover, G.B. (2004). Lower trunk kinematics and muscle activity during different types of tennis serves. Proceedings of the 28th Annual Meeting of the American Society of Biomechanics. [www.x-cd.com/biomech04/pdfs/331.pdf]

31. Chow, J.W., Park, S-A., Wight, J.T., & **Tillman, M.D.** (2004). Reliability of a technique for determining sagittal knee geometry from lateral knee radiographs. Proceedings of the 28th Annual Meeting of the American Society of Biomechanics. [www.x-cd.com/biomech04/pdfs/332.pdf]

32. Wight, J.T., Grover, G.B., Chow, J.W., Richards, J.G., & **Tillman, M.D.** (2004). Influence of torso rotation and arm cocking styles on elbow varus torque in baseball pitching. Proceedings of the 28th Annual Meeting of the American Society of Biomechanics. [www.x-cd.com/biomech04/pdfs/274.pdf]

33. Buckley, B.D., Kaminski, T.W., & **Tillman, M.D.** (2004). Comparison of muscle activation patterns in boys and girls during a simple landing task. Journal of Athletic Training, 39(2), S-68.

34. Haskins, M.C., Powers, M.E., **Tillman, M.D.**, & Horodyski, M.B. (2004). The effects of patellofemoral bracing on quadriceps activity during open and closed kinetic chain exercise. Journal of Athletic Training, 39(2), S-102.

35. Wikstrom, E.A., Powers, M.E., **Tillman, M.D.**, & Horodyski, M.B. (2004). The effects of isokinetic and functional fatigue on dynamic stability during jump landings. Journal of Athletic Training, 39(2), S-113.

36. Miniello, S.E., Powers, M.E., Horodyski, M.B., **Tillman, M.D.**, Wikstrom, E.A., & Dover, G.C. (2004). Cryotherapy treatment does not impair dynamic stability in healthy females. Journal of Athletic Training, 39(2), S-33.

37. Valdez, D., Horodyski, M.B., Powers, M.E., **Tillman, M.D.**, & Siders, R. (2004). Bilateral asymmetries in flexibility, stability, power, strength, and muscle endurance associated with preferred and nonpreferred legs. Journal of Athletic Training, 39(2), S-108.

38. Smink, K.A., Powers, M.E., **Tillman, M.D.**, & Horodyski, M.B. (2004). The effects of hamstring delayed onset muscle soreness on time to stabilization from a jump-landing. Journal of Athletic Training, 39(2), S-113.

39. Otzel, D.M., Chow, J.W., & **Tillman, M.D.** (2004). Bilateral comparison of motor unit activation in unilateral ACL-reconstructed individuals. Medicine & Science in Sports & Exercise, 36(5), S288.

40. Gutierrez, G.M., Chow, J.W., White, L.J., **Tillman, M.D.**, Castellano, V., & McCoy, S.C. (2004). Effects of resistance training on gait kinematics of individuals with multiple sclerosis. Medicine & Science in Sports & Exercise, 36(5), S266.

41. Jagger, K.J., Chow, J.W., **Tillman, M.D.**, & Bruce, J.A. (2004). Do foot orthotics have an acute effect on the gait mechanics of individuals with chronic incomplete spinal cord injury? A preliminary study. Journal of Neurologic Physical Therapy, 27, 190-191.

42. Chow, J.W., Wrigley, W.M., **Tillman, M.D.** (2004). Effects of taping and bracing on push-off mechanics from a three-point stance in football. Proceedings of the SEACSM, 47.

43. Kim, H.D., Brunt, D., Kukulka, C., Marsiske, M., & **Tillman, M.D.** (2003). Effect of attention capacity while stepping over an obstacle in young and healthy elderly adults. Proceedings of the Society for Neuroscience.

44. Chow, J.W., Otzel, D.M., & **Tillman, M.D.** (2003). Bilateral comparisons of knee strength, thigh circumference, and motor unit activation in unilateral ACL-reconstructed individuals. Proceedings of the VIIth IOC Olympic World Congress on Sport Sciences, 63E.

45. Chow, J.W., Park, S.A., **Tillman, M.D.,** & Fournier, K.A. (2003). Electromyographic analysis of lower trunk muscles during different types of tennis serve. Proceedings of the VIIth IOC Olympic World Congress on Sport Sciences, 73E.

46. Chow, J.W., **Tillman, M.D.**, Gutierrez, G.M., & Hass, C.J. (2003). An electromyographic comparison of parallel and trap bar squats. Proceedings for the 26th Annual Meeting of the American Society of Biomechanics. [E:\biomech03\prof93.html].

47. Shills, J.J., Kaminski, T.W., & **Tillman, M.D.** (2003). Comparing time to stabilization values following an acute bout of intensive exercise in those with functional ankle instability. Journal of Athletic Training, 38(2), S50.

48. Wikstrom, E.A., Powers, M.E., **Tillman, M.D.,** Horodyski, M.B., & Porter, G.K. (2003). The effects of a functional fatigue protocol on time to stabilization and joint angle following a jump landing. Journal of Athletic Training, 38(2), S20.

49. Gutierrez, G.M., Chow, J.W., White, L.J., & **Tillman, M.D.** (2003). Postural sway characteristics of multiple sclerosis (MS) individuals of different disability statuses. Medicine & Science in Sports & Exercise, 35(5), S232.

50. Kaminski, T.W., Shills, J.J., & **Tillman, M.D.** (2003). Comparing isokinetic ankle strength ratios following an acute bout of intensive exercise. Medicine & Science in Sports & Exercise, 35(5), S370.

51. R.S. Deane, R.S., Chow, J.W., **Tillman, M.D.,** & Fournier, K.A. (2003). Hip flexor

strength training can improve sprint and shuttle run performance. Medicine & Science in Sports & Exercise. 35(5), S402.

52. Levy, C.E., Chow, J.W., **Tillman, M..D.,** Hanson, C., Donohue, T., & Mann, W.C. (2002). Elders wheel more easily over various terrains using a variable ratio power-assist wheelchair. Archives of Physical Medicine and Rehabilitation, 83, 1679.

53. Morley, K.J., Kaminski, T.W., Powers, M.E., **Tillman, M.D.,** Horodyski, M.B., & Buckley, B.D. (2002). A comparison of muscle latency patterns to perturbation in subjects with and without functional ankle instability. Journal of Athletic Training, 37(2), S-21.

54. Chow, J.W., **Tillman, M.D.,** Levy, C.E., Mann, W.C., Hanson, C.S., & Donohue, T.J. (2002). Electromyographic comparison of wheelchair propulsion using manual and power-assisted chairs. Medicine & Science in Sports & Exercise, 34(5), S90.

55. Hass, C.J., Schick, E.A., Chow, J.W., **Tillman, M.D.,** Brunt, D., & Papangelou, C.P. (2002). Biomechanics of jump-landings in prepubescent and postpubescent female athletes. Medicine & Science in Sports & Exercise, 34(5), S253.

56. Jagger, K., Ensch, C., & **Tillman, M.D.** (2001). The relationships among ground reaction forces, joint angles, and anthropometric measures during front and lateral step-ups. Proceedings for the 25th Annual Meeting of the American Society of Biomechanics, 341-342.

57. Ensch, C., Kleiner, D., & **Tillman, M.D.** (2001). The effect of tool familiarity on face mask removal. Journal of Athletic Training, 36(2), S68.

58. Chow, J.W., Chae, W.S., **Tillman, M.D**., Hass, C.J., & Akly, C.I. (2001). Bilateral comparison of patellar mechanism on unilateral acl-reconstructed individuals. Medicine & Science in Sports & Exercise, 33(5), S282.

59. Hass, C.J., Moore, L.M., **Tillman, M.D**., Focht, B.C., & Bauer, J.A. (2000). The influence of short-term maximal exercise on the mechanics of running on different surfaces. Medicine & Science in Sports & Exercise, 32(5), S273.

60. Bauer, J.A., Falsetti, A.B., **Tillman, M.D.,** Smith, K.R., & Kaminski, T. (1999). Lower extremity skeletal variations and acl injury. Medicine & Science in Sports & Exercise, 31(5), S295.

61. Kaminski, T.W., Perrin, D.H., Horodyski, M.B., Bauer, J.B., & **Tillman, M.D.** (1999). In-vivo isokinetic force-velocity relationships for ankle eversion. Medicine & Science in Sports & Exercise, 31(5), S224.

62. Bauer, J.A., **Tillman, M.D**., Carter, C., & Fiolkowski, P. (1998). Impact performance of jai alai helmets. Medicine & Science in Sports & Exercise, 30(5), S28.

63. Fiolkowski, P., **Tillman, M.D**., Bauer, J.A., Brunt, D.S., & Reisinger, K.D. (1998).

Cushioned footwear and gait kinematics. Medicine & Science in Sports & Exercise, 30(5), S268.

64. Fiolkowski, P., Bauer, J., **Tillman, M.D**., & Brunt, D. (1997). A comparison of force plate and insole pressure measurements. Proceedings for the XVIth Congress of the International Society of Biomechanics, Tokyo, Japan.

SERVICE

Committees:

Member: Faculty Advisory Council (2009-2010): College of Health and Human Performance, University of Florida, Gainesville, FL.

Chair: Tenure & Promotion Subcommittee-Department Lecturer Promotion Guidelines (2009-2010): Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: Tenure & Promotion Committee (2009-2010): Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Chair: Lecturer Search Committee (2009). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Co-director: UF-University of Darmstadt Study Abroad Program (2009): lectured, supervised students and coordinated activities in Gainesville and Germany.

Member: Biomechanics Interest Group Awards Committee (2009-2010). American College of Sports Medicine.

Member: Assistant/Associate Professor Search Committee (2008-2009). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: Assistant Professor Search Committee (2008-2009). Department of Tourism, Recreation, and Sport Management, University of Florida, Gainesville, FL.

Member: International & Diversity Committee (2008-2009): College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Awards Committee (2008-2009): College of Health and Human Performance, University of Florida, Gainesville, FL.

Chair: Faculty Advisory Council (2008-2009): College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Graduate Curriculum Committee (2007-2008): Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: College Council (2007-2010): College of Health and Human Performance, University of Florida, Gainesville, FL.

Chair: Faculty Advisory Council (2007-2008): College of Health and Human Performance, University of Florida, Gainesville, FL.

Chair: T&P Subcommittee on Departmental guidelines for Promotion of Lecturers (2007-2008): Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member:60th Anniversary Committee (2006): College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Graduate Curriculum Committee: (2006-2007): Department of Applied Physiology and Kinesiogy, University of Florida, Gainesville, FL.

Member: Physical Education Committee (2006-2007): College of Health and Human Performance, University of Florida, Gainesville, FL.

Co-director: UF-University of Darmstadt Study Abroad Program (2006): lectured, supervised students and coordinated activities in Germany.

Member: Stanley Lecture and Research Symposia Committee (2005-2006). College of Health and Human Performance, University of Florida, Gainesville, FL.

Co-director/host: UF-University of Darmstadt Exchange Program (2005): planned and coordinated activities held in Gainesville and north Florida.

Member: Faculty Evaluation Committee (2005-2006). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: Professor/Associate Professor Search Committee (2005-2006). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: Senior IT Coordinator Search Committee (2005). College of Health and Human Performance, University of Florida, Gainesville, FL.

Chair: Undergraduate Curriculum Committee (2004-2005). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Member: Curriculum Committee (2004-2005). College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Distinguished Alumni Committee (2004-2005). College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Professor/Associate Professor Search Committee (2004-2005). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL.

Co-director: UF-University of Darmstadt Exchange Program (2004): supervised students and coordinated activities in Germany, Switzerland, and France.

Member: Merit Evaluation Committee (2004). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.

Member: Undergraduate Curriculum Committee (2003-2004). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.

Co-director/host: UF-University of Darmstadt Exchange Program (2003): planned and coordinated activities held in Gainesville and north Florida.

Member: Teacher of the Year Committee (2003). College of Health and Human Performance, University of Florida, Gainesville, FL.

Member: Fellowship Committee (2003). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.

Member: Exercise Physiology Visiting Assistant Professor Search Committee (2003). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.

Co-director: UF-University of Darmstadt Exchange Program (2002): supervised students and coordinated activities in Germany, Switzerland, and France.

Member: Grades Appeal Committee (2002-2003). Department of Exercise and Sport Sciences, University of Florida, Gainesville, FL.

Member: Fellowship Committee (2002). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.
Member: Grades Appeal Committee (2001-2002). Department of Exercise and Sport Sciences, University of Florida, Gainesville, FL.

Member: Cultural Diversity Committee (2000-2001). Department of Exercise and Sport Sciences, University of Florida, Gainesville, FL.

Member: Biomechanics Associate Professor Search Committee (2000). Department of Exercise & Sport Sciences, University of Florida, Gainesville, FL.

Grant Reviews:

National Science Foundation (2005): 1 review

Journal Reviews:

Clinical Biomechanics (2009): 2 reviews

Research Quarterly for Exercise and Sport (2009): 2 reviews

Medicine & Science in Sport & Exercise (2009): 2 reviews

Musculoskeletal Disorders (2009): 1 review

Journal of Athletic Training (2008): 1 review

Medicine & Science in Sport & Exercise (2008): 1 review

Research Quarterly for Exercise and Sport (2008): 1 review

European Journal of Applied Physiology (2008): 3 reviews

Clinical Biomechanics (2007): 1 review

Medicine & Science in Sport & Exercise (2007): 2 reviews

Journal of Athletic Training (2007): 2 reviews

Medicine & Science in Sport & Exercise (2006): 2 reviews

Research Quarterly for Exercise and Sport (2006): 3 reviews

Medicine & Science in Sport & Exercise (2005): 2 reviews

Sports Engineering (2005): 1 review

Clinical Biomechanics (2005): 2 reviews

Journal of Sports Science & Medicine (2005): 1 review

Journal of Athletic Training (2005): 2 reviews

Research Quarterly for Exercise and Sport (2005): 1 review

British Journal of Sports Medicine (2005): 1 review

Medicine & Science in Sports & Exercise (2005): 2 reviews

Osteoarthritis and Cartilage (2005): 1 review

Sports Medicine (2005): 1 review

Journal of Athletic Training (2004): 2 reviews

Journal of Sports Science & Medicine (2004): 5 reviews

Journal of Applied Biomechanics (2003): 1 review

Journal of Aging and Physical Activity (2003): 1 review

GRADUATE COMMITTEE ACTIVITY

Doctoral students:

Student	College	Major	Status
Vallabhajosula, Srikant	Health & Human Performance	Biomechanics	Chair
Otzel, Dana	Health & Human Performance	Biomechanics	Chair
Zukowski, Lisa	Health & Human Performance	Biomechanics	Chair
Stewart, Kim*	Health & Human Performance	Biomechanics	Co-chair
Patterson, Tara*	Health Professions	Rehabilitation Science	Member
Lane, John*	Health & Human Performance	Motor Control	Member
Wikstrom, Erik*	Health & Human Performance	Sports Medicine	Co-chair
Model, Eric*	Health & Human Performance	Sport Psychology	Member
Fournier, Kim*	Health & Human Performance	Biomechanics	Member
Wight, Jeff*	Health & Human Performance	Biomechanics	Chair
Combs, Stephen*	Health & Human Performance	Motor Control	Member
Ko, Man-Soo*	Health Professions	Rehabilitation Science	Member
Rozea, Gerard D*	Health & Human Performance	Sports Medicine	Co-chair
Dover, Geoffrey*	Health & Human Performance	Sports Medicine	Member
Buckley, Bernadette*	Health & Human Performance	Sports Medicine	Member
Park, Soo-An*	Health & Human Performance	Biomechanics	Member
Norton, Chris*	Health & Human Performance	Biomechanics	Chair
Bishop, Mark*	Health Professions	Rehabilitation Science	Member
Hass, Christopher*	Health & Human Performance	Biomechanics	Member
Jagger, Kristen*	Health & Human Performance	Biomechanics	Member
Kim, Hyeong-Dong*	Health Professions	Rehabilitation Science	Member
Morgan, Matthew	Health Professions	Rehabilitation Science	Member

*- graduated

Master's students:

Student	College	Major	Status
Doidge, Douglas	Health & Human Performance	Biomechanics	Chair
Garbrecht, John D	Health & Human Performance	Biomechanics	Chair
Minton, Shirley*	Health & Human Performance	Human Performance	Chair
Jurado, Melissa*	Health & Human Performance	Human Performance	Chair
Stancil, Michael*	Health & Human Performance	Sport Psychology	Member
McManus, Lindsay*	Health & Human Performance	Motor Control	Member
Langley, Brad*	Health & Human Performance	Sport Psychology	Member
Pantoni, Mark*	Health & Human Performance	Human Performance	Chair
Heal, Elisabeth*	Health & Human Performance	Human Performance	Chair
Ewan, Carajay*	Health & Human Performance	Human Performance	Chair
Lambert, Jennifer*	Health & Human Performance	Human Performance	Chair
Mizell, Ryan*	Health & Human Performance	Biomechanics	Chair
Hillier, Martin*	Health & Human Performance	Biomechanics	Chair
Woodruff, Ryan*	Health & Human Performance	Human Performance	Chair
Gutierrez, Greg*	Health & Human Performance	Biomechanics	Chair
Crollick, Jody*	Health & Human Performance	Pedagogy	Member
Grover, Guy	Health & Human Performance	Biomechanics	Chair
Otzel, Dana*	Health & Human Performance	Biomechanics	Chair
Wirth, Chris*	Health & Human Performance	Pedagogy	Member
Smink, Kyle*	Health & Human Performance	Athletic Training	Chair
Forde, Francis*	Health & Human Performance	Biomechanics	Co-chair
Miniello, Susan*	Health & Human	Athletic Training	Member

	Performance		
Valdez, Dennis*	Health & Human Performance	Athletic Training	Member
Haskins, Carol*	Health & Human Performance	Athletic Training	Member
Macbeth, Elizabeth*	Health & Human Performance	Biomechanics	Chair
Wikstrom, Erik*	Health & Human Performance	Athletic Training	Member
Pugh, Gary M*	Health & Human Performance	Athletic Training	Member
Mantion, Dean*	Health & Human Performance	Clinical Exercise Physiology	Member
Criss, Rachel*	Health Professions	Physical Therapy	Co-chair
Pattishall, Lynn*	Health & Human Performance	Human Performance	Chair
Andrew, Damon*	Health & Human Performance	Biomechanics	Co-chair
Sapre, Ruchika*	Health Professions	Physical Therapy	Member
Wrigley, William*	Health & Human Performance	Biomechanics	Member
Jacobson, Tim*	Health & Human Performance	Biomechanics	Chair
Morley, Kevin*	Health & Human Performance	Athletic Training	Member
Mukunda, Sindhu*	Health Professions	Physical Therapy	Member
Norris, Kenyail*	Engineering	Biomedical Engineering	Member
Schick, Elizabeth*	Health & Human Performance	Biomechanics	Member

*-graduated

Miscellaneous:

ACSM Free Communication Session Chair (2006). Sport Biomechanics II. American College of Sports Medicine Annual Meeting. Denver, CO.

Graduation Marshall (Fall 2004). University of Florida, Gainesville, FL.

ACSM Free Communication Session Chair (2004). Aging and Biomechanics. American College of Sports Medicine Annual Meeting. Indianapolis, IN.

Advisory Panel Member (2002-2004). Remote Interactive Motion Analysis System. National Science Foundation (NSF DUE-0127338, NSF DUE-0127221).

Graduate and Professional Student Forum Judge (Spring 2003). Behavioral Science. University of Florida, Gainesville, FL.

Graduation Marshall (Spring 2003). University of Florida, Gainesville, FL.

ACSM Thematic Poster Session Chair (2002). Lower Extremity Kinetics. American College of Sports Medicine Annual Meeting. St. Louis, MO.

Graduate and Professional Student Forum Judge (Spring 2002). Behavioral Science. University of Florida, Gainesville, FL.

Graduate and Professional Student Forum Judge (Spring 2001). Behavioral Science. University of Florida, Gainesville, FL.

PROFESSIONAL MEMBERSHIPS

American College of Sports Medicine

Southeast College of Sports Medicine

American Society of Biomechanics

International Society of Biomechanics in Sport

Order of the Engineer

Distinguished Member of The National Society of Collegiate Scholars