**Irene S. Davis, PhD, PT, FACSM, FAPTA, FASB**

Professor, School of Physical Therapy and Rehabilitation Sciences

Morsani College of Medicine

University of South Florida

(Updated July, 2022)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Education**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| Penn. State Univ, State College, PA  Univ of Virginia, Charlottesville, VA  Univ of Florida, Gainesville, FL  Univ. of Massachusetts, Amherst, MA | PhD MEd  BS  BS | 1990  1984  1978  1977 | Biomechanics  Biomechanics  Physical Therapy  Exercise Science |

State of Massachusetts, Physical Therapy License # 19407

**Employment**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Employment History

2022-present University of South Florida, Tampa, FL

Professor, School of Physical Therapy & Rehabilitation

2013-2021 Harvard Medical School, Boston, MA

Professor, Dept. of Physical Medicine and Rehabilitation

2011-2013 Harvard Medical School, Boston, MA

Visiting Professor, Dept. of Physical Medicine and Rehabilitation

2011-2021 Harvard Medical School, Boston, MA

Director, Spaulding National Running Center

2011-present University of Delaware, Newark, DE

Professor Emeritus, Dept. of Physical Therapy

2004-2010 University of Delaware, Newark, Delaware Professor, Dept. of Physical Thera

2004-2011 Drayer Physical Therapy Institute, Hummelstown, PA Director of Research

1997-2004 University of Delaware, Newark, Delaware Associate Professor, Dept. of Physical Therapy

1989-1997 University of Delaware, Newark, Delaware Assistant Professor, Dept. of Physical Therapy

1985-1989 Pennsylvania State University, University Park, Pennsylvania Research Assistant, Center for Locomotion Studies

1982-1985 University of Virginia, Charlottesville, Virginia Research Assistant, Rehabilitation Engineering Center

1979-1982 Woodrow Wilson Rehabilitation Center, Fishersville, Virginia Staff Physical Therapist, Department of Physical Therapy Clinical Responsibilities

**Honors and Awards**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Rathbone/Drinkwater Memorial Lecture - American College of Sports Medicine 2021

DB Dill Lecture - American College of Sports Medicine 2021

Borelli Award - American Society of Biomechanics 2019

UNLV Distinguished Lecture Award 2018

ACSM Global Leadership Award 2017

One of the 50 Most Influential People in Running – Visionary – Runners World 2015

Steven J. Rose Lecture, Washington University 2015

Esther Larsen McGinnis Distinguished Speaker, Illinois State University 2014

Board of Trustees, American College of Sports Medicine 2014

Biomechanics Career Award, American College of Sports Medicine 2014

Professor, Harvard Medical School 2013

Partners in Excellence Award - Boston Marathon Bombing Medical Tent 2013

Career Excellence Award in Biomechanics Research, APTA 2013

US Army Baylor Distinguished Speaker 2012

McCabe Distinguished Speaker, Springfield College 2012

Texas ACSM Raven Speaker 2012

Professor Emeritus, University of Delaware 2011

Irma S. Reubling Distinguished Speaker, University of Dayton 2011

Fellow of the American Society of Biomechanics 2011

Catherine Worthingham Fellow of the American Physical Therapy Association 2010

Univ. of Florida Dept. of Phys.Ther. 2009 Outstanding Alumnus Awardee 2009

Clinical Biomechanics Award 2006

Fellow, American College of Sports Medicine 2001

Summa Cum Laude Graduate, The Penn State University 1990

Physical Therapy Foundation Scholar 1988

Recipient of Zipser Scholarship, The Penn State University 1988

Outstanding Masters Student Award, University of Virginia 1984

Nominee for Mary McMillan Scholarship Award, APTA 1978

Magna Cum Laude Graduate, University of Florida 1978

Magna Cum Laude Graduate, University of Massachusetts 1977

**Publications**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Johnson, CD.**,Davis, IS (2022). What differentiates rearfoot strike runners with low and high vertical load rates? *Gait and Posture* (in press).
2. **Popp, KL**, Outerleys, J, Gehman, S, Garrahan, M, Rudolph, S, Loranger, E, Ackerman, KE, Tenforde, AS, Bouxsein ML, Davis, IS (2022). Impact loading in female runners with single and multiple bone stress injuries during fresh and exerted conditions. *Journal of Sport and Health Sciences.* S2095-2546(22)00036-9.
3. **Davis, IS**, Chen, TL, Wearing, SC (2022). Reversing the mismatch with forefoot striking to reduce running injuries. *Frontiers in Sport and Active Living.* doi: [10.3389/fspor.2022.794005](https://doi.org/10.3389%2Ffspor.2022.794005).
4. Johnson, CD., Outerleys, J., **Davis, IS** (2022). Agreement between sagittal foot and tibia angles during running derived from an open-source markerless motion capture platform and manual digitization. *Journal of Applied Biomechanics*, 38(2):111-116.
5. **Davis, IS**, Hollander, K, Lieberman, DE, Ridge, ST, Sacco, ICN, Wearing, SC. (2021). Stepping back to minimal footwear: Applications across the Lifespan. *Exercise and Sport Science Reviews* 49(4):228-243.
6. Tenforde, AS, Bredella, M, Outerleys, J, Bouxsein, ML, Buckless, CG, Besier, T and **Davis, IS.** Prevalence of metatarsal bone marrow edema on MRI and injury in male collegiate basketball. *Orthopedic Journal of Sports Medicine* 2022 Jan 17;10(1):23259671211063505.
7. Johnson, CD., Outerleys, J., **Davis, IS.** (2021). Relationships between tibial acceleration and ground reaction force measures in the medial-lateral and anterior-posterior planes. *Journal of Biomechanics*, 117: 110250.
8. Johnson, CD**.**, **Davis, IS** (2021). A comparison of ground reaction force waveforms and step length between recreational, endurance runners with Hamstring injuries and healthy controls. *Clinical Biomechanics*. 84:105334.
9. Troy, KL, **Davis, IS,** Tenforde, AT (2021). A Narrative Review of Metatarsal Bone Stress Injury in Athletic Populations: Etiology, Biomechanics, and Management. *Physical Medicine and Rehabilitation,* 13(11):1281-1290.
10. Futrell, EE, Gross, KD, Mullineaux, DR and **Davis, IS.** (2021) Exerted running results in altered impact mechanics and footstrike patterns following gait retraining. *Journal of Sport and Health Sciences,* 39(11):1302-1311.
11. Krabak B, Roberts WO, Tenforde AS, Ackerman KE, Adami PE, Baggish A, Barrack M, Cianca J, **Davis IS,** D’Hemecourt P, Fredericson M, Goldman J, Harrast M, Heiderscheit B, Hollander K, Kraus E, Luke A, Miller EM, Moyer M, Rauh MJ, Toresdahl B, Wasfy M.(2021) Youth Running Consensus Statement: Minimizing Risk of Injury and Illness in Youth Runners. *British Journal of Sports Medicine* 55(6):305-318.
12. Johnson, CD**.**, **Davis, IS** (2020). Relationships between arch height flexibility and medial-lateral ground reaction forces in rearfoot and forefoot strike runners. *Journal of Applied Biomechanics*. 37(2):118-121.
13. **Corrigan, P, Davis, IS, James, KA, Crossley, KM and Stefanik, J. (2020). Reducing knee pain and loading with a gait retraining program for individuals with knee osteoarthritis: Protocol for a randomised feasibility trial. *Osteoarthritis and Cartilage Open,* 2(4):100097.**
14. **Hollander, K, Johnson, CD, Outerleys, J and Davis, IS (2020). Multifactorial determinants of running injury locations in 550 injured recreational runners. *Medicine and Science in Sport and Exercise* 53(1):102-107.**
15. **Burland, JP, Outerleys, JB, Latterman, C and Davis, IS (2020). Reliability of wearable sensors to assess impact metrics during sports-specific tasks. *Journal of Sports Sciences* 39(4):1-6.**
16. Johnson, CD., Outerleys, J., Tenforde, AS., **Davis, IS** (2020). A comparison of attachment methods of skin mounted inertial measurement units on tibial accelerations. *Journal of Biomechanics*, 113: 110118
17. **Davis IS**, Tenforde AS, Neal BS, Roper J, Willy RW. Gait Retraining as an Intervention for Patellofemoral Pain. Current Reviews in Musculoskeletal Medicine; 2020;13(1):103-114.
18. Johnson, CD., Tenforde, AS., Outerleys, J., Reilly, J., **Davis, IS** (2020). Impact-related ground reaction forces are more strongly associated with some running injuries than others. *American Journal of Sports Medicine*. 48(12): 3072-3080.
19. Futrell, EE, Gross, KD, Reisman, D, Mullineaux, D and **Davis, IS** (2020). Transition to forefoot striking reduces loadrates more effectively than altering cadence. *Journal of Health and Sports Science,* 9(3):248-257**.**
20. Tenforde, AS, Borgstrom, H, Polich, G, Steere, H, **Davis, IS,** Cotton, K, O'Donnell, M Silver, J.(2020). Outpatient physical, occupational and speech therapy synchronous telemedicine: A survey study of patient satisfaction with virtual visits during the COVID-19 pandemic. *American Journal of Physical Medicine and Rehabilitation*. 99(11):977-981.
21. Johnson, CD, Outerleys, JB, Jamison, ST, Ruder, MC, **Davis, IS** (2020). Comparison of tibial shock during treadmill and real-world running. *Medicine and Science in Sport and Exercise*, 52(7):1557-1562.
22. Krabak, BJ, Tenforde, AS, **Davis, IS,** Fredericson, M, Harrast, MA, d'Hemecourt, P, Luke, AC, Roberts, WO (2019). Youth distance running: Strategies for training and injury reduction. *Current Sports Medicine Reports*. 18(2):53-59.
23. Tenforde, AT, Hayano, T, Outerleys, J, Jamison, ST, **Davis, IS**. (2019) Tibial acceleration measured from wearable sensors is associated with vertical loading rates in injured runners. *Physical Medicine and Rehabilitation* 12(7):679-684
24. Wearing, SC, **Davis IS**, Brauner, T, Hooper, SL and Horstmann, T (2019). Do habitual foot–strike patterns in running Influence functional Achilles tendon properties during gait? *Journal of Sports Science,* 37(23):2735-2743.
25. Morris, JB, Goss, DL, Miller, EM, **Davis, IS** (2019).Using real-time biofeedback to alter running biomechanics: A randomized controlled trial. *Translational Sports Medicine.* https://doi.org/10.1002/tsm2.110.
26. Cheung, RT, Zhang, JH, Chan, ZYS, An, WW, AU, IPH, MacPhail, A, **Davis, IS** (2019). ‘Shoe mounted accelerations should be use with caution in gait retraining’. *Scandinavian Journal of Medicine Science and Sport,* 29(6):835-842.
27. Ruder, MC, Jamison, ST, Tenforde, AS, Francis Mulloy, and **Davis, IS** (2019). Relationship of footstrike pattern and landing impacts during a marathon. *Medicine and Science in Sports and Exercise,* 51(10):2073-2079.
28. Tenforde, AS, Borgstrom, HE, Outerleys, J, and **Davis, IS** (2019). Is cadence related to leg length? *Journal of Orthopedic and Sports Physical Therapy,* 49(4):280-283.
29. Ridge, ST, Olsen, MT, Bruenig, DA, Jurgensmeier, K Griffin, D, **Davis, IS**, Johnson, W (2019). Walking in minimalistic shoes is effective in strengthening foot muscles. *Medicine and Science in Sports and Exercise,* 51(1):104-113.
30. Krabak B, Tenforde AS, **Davis IS**, Fredericson M, Harrast M, D'Hemecourt P, Luke A, Roberts W (2019). Youth Distance Running: Strategies for training and injury prevention. *Current Sports Medicine Reports*. 19(2):53-59.
31. Bowser, BJ, Fellin, R, Milner, CE, Pohl, MB and **Davis, IS** (2018). Reducing impact loading in runners: A one-year follow-up. *Medicine and Science in Sports and Exercise*, 50(12):2500-2506.
32. Porciuncula, F, Roto, AV, Roy, S, Kumar, D, **Davis, IS**, Walsh, C, Awad, L. (2018). Wearable Movement Sensors for Rehabilitation: A Focused Review of Technological and Clinical Advances. *Physical Medicine and Rehabilitation,* 10(12):S220-S232.
33. Collins, N, Barton, C, Middlekoop, M, Rathleff, M, Vicenzino, B, **Davis, I**, Powers, C, Macri, E, Hart, H, Silva, D, Crossley, K. (2018). 2017 consensus statement on exercise therapy and physical interventions (orthoses, taping, manual therapy) to treat patellofemoral pain.  Recommendations from the 5th International Patellofemoral Pain Research Retreat, Gold Coast, Australia, 2017. *British Journal of Sports Medicine* 52(18).
34. Futrell, EE, Jamison, ST, Tenforde, AS, **Davis, IS** (2018**).** Relationships between habitual cadence, footstrike and vertical loadrates in runners. *Medicine and Science in Sports and Exercise*, 50(9):1847-51.
35. **Davis I** (2018). Optimising the efficacy of gait retraining. *British Journal of Sports Medicine*, 52(10):624-625.
36. Tendforde, AS, Ruder, MC, Jamison, ST, Singh, PP and **Davis, IS** (2018). Is symmetry of loading improved for injured runners during novice barefoot running? *Gait and Posture***,** 62:317-320.
37. Hutchinson, L, Schwartz, JB, Morton, Amy M, **Davis, IS**, Deluzio, KJ and Rainbow, MJ (2017). Operator bias errors are reduced using a standing marker alignment device for repeated visit studies. *Journal of Biomedical Engineering*, 140(4).
38. **Davis IS**, Powers C, Tenforde A, Singh RJ (2017). A Tale of Two Treatments for Patellofemoral Pain. *Physical Medicine and Rehabilitation*. 9(12):1283-1289.
39. Bowser, BJ, Rose, WC, McGrath, RL, Salerno, JM, Wallace, JF and **Davis, IS** (2017). Effect of footwear on dynamic stability during single-leg jump landings. *International Journal of Sports Science*, 38(6):481-486.
40. **Davis, IS**, Rice, HM and Wearing, SC (2017). Why forefoot strike running in minimal shoes might positively change the course of running injuries. *Journal of Sport and Health Sciences,* 6(2):154-161.
41. Fokkema, T, de Vos, RJ, van Ochten, J, Verhaar, JA, **Davis, IS** (2017). Preventing running-related injuries using evidence-based online advice: the design of a randomized-controlled trial. *British Medical Journal Open Sport & Exercise Medicine,* 3(1).
42. Rice, HM, Jameson, ST and **Davis, IS** (2016). Footwear matters: Influence of footwear and foot strike on loadrates during running. *Medicine and Science in Sports and Exercise* 48(12):2462-2468.
43. Powers, CM, Crossley, KC and **Davis, IS** (2016) 2016 Patellofemoral pain consensus statemement from the 4th international Patellofemoral Pain Research Retreat, Manchester. Part 2: Risk factors in the development of patellofemoral pain. *British Journal of Sports Medicine,* 50(14):839-43
44. Chen, TL, Sze, LKY, **Davis, IS**, Cheung, RT, (2016). Effects of training in minimalist shoes on the intrinsic and extrinsic foot muscle volume. *Clinical Biomechanics,* Jul;36:8-13.
45. **Davis, IS** and Futrell, E (2016). Gait Retraining: Altering the Fingerprint of Gait. *Physical Medicine and Rehabilitation Clinics of North America,* Feb;27(1):339-55.
46. Crossley, KM, Stefanik, JJ, Self, J, Collins, NJ, **Davis, IS**, Powers, CM, McConnell, J, Vicenzino, B, Bazette-Jones, D, Esculier, JF, Morrisey, D and Callaghan, M. (2016). 2016 Patellofemoral pain consensus statement from the 4th international Patellofemoral Pain Research Retreat, Manchester. Part 1: Terminology, definitions, clinical examination, natural history, patellofemoral osteoarthritis and patient-reported outcome measures. *British Journal of Sports Medicine* 50(14):844-852.
47. Almeida, MO, **Davis, IS**, and Lopes, AD (2015). Biomechanical differences of footstrike patterns during running: A systematic review with meta-analysis. *Journal of Orthopedic and Sports Physical Therapy* 45(10):738-755*.*
48. **Davis, IS,** Bowser, B and Mullineau, D (2015). Increased vertical impact loading in female runners with medically diagnosed injuries: A prospective investigation. *British Journal of Sports Medicine,* 50(14):887-92.
49. Altman, AR and **Davis, IS.** (2015)Prospective comparison of running injuries between shod and barefoot runners. British Journal of Sports Medicine, 50(8):476-480.
50. McKeon, PO, Hertel, J, Bramble, D, and **Davis I** (2015). The foot core: A new paradigm for understanding intrinsic foot function. *British Journal of Sports Medicine,* 49(5):290.
51. Warden, SJ, **Davis, IS** and Fredericson, M (2014). Management and prevention of bone stress injuries in long-distance runners. *Journal of Orthopedic and Sports Physical Therapy,* 44(10):749-765.
52. **Davis, IS.** (2014). Re-emergence of the minimal shoe. *Journal of Orthopedic and Sports Physical Therapy,* 44(10):775-784.
53. Witvrouw, E, Callahan, MJ, Stefanik, JJ, Noehren, B, Bazett-Jones, DM, Willson, JD, Earl-Boehm, JE, **Davis, IS**, Powers, CM, McConnell, J and Crossley, KM (2014)*.* The 3rd International Patellofemoral Research Retreat: The Consensus Statement. *British Journal of Sports Medicine,* 48(6):411-414
54. Witvrouw, E, Crossley, K, **Davis, I**, McConnell, J and Powers, C(2014)*.* The 3rd International Patellofemoral Research Retreat: An international expert consensus meeting to improve the scientific understanding and clinical management of patellofemoral pain.  *British Journal of Sports Medicine,* 48(6):408.
55. Samaan, CD, Rainbow, MJ, and **Davis, IS** (2014). Reduction in ground reaction force variables with instructed barefoot running. *Journal of Sport and Health Science,* 3(2)143-151.
56. Willy, RW and **Davis, IS**. (2014). Kinematic and kinetic comparison of running in standard and minimalist shoes, *Medicine and Science in Sport and Exercise,* 46(2):318-23.
57. Willy, RW and **Davis, IS**. (2013). Varied response to mirror gait retraining on gluteus medius control, hip kinematics, pain and function in 2 individuals with patellofemoral pain. *Journal of Orthopedic and Sports Physical Therapy,* 43(12):864-74.
58. Rainbow MJ, Miranda DL, Cheung R TH, Schwartz JB, Crisco JJ, **Davis IS**, Fleming BC (2013). Automatic Determination of an Anatomical Coordinate System for a Three-Dimensional Model of the Human Patella. *Journal of Biomechanics,* 46(12):2093-6.
59. Noehren, BW, Hamill, J, and **Davis, IS** (2013). Prospective Evidence for a Hip Etiology in Patellofemoral Pain. *Med Sci Sports Exerc* 45(6):1120-1124
60. Barrios JA, Lloyd C, Royer T, **Davis IS** (2013). Mechanical effectiveness of lateral foot wedging in medial knee osteoarthritis after 1 year of wear. *Journal of Orthopedic Research*, 31(5):659-644.
61. Saragiotto, BT, Yamato, TP, Hespanhol, LC, Rainbow, MJ, **Davis, IS** and Lopes, AD (2012). What are the main risk factors for running-related injuries? *Sports Medicine*, 42(10):891-906.
62. Willy, RW, Witvrouw, E, Manal, K and **Davis, IS**. (2012). Are lower extremity mechanics different between male and female runners with patellofemoral pain syndrome? *Medicine and Science in Sport and Exercise* 2012, 44(11):2165-2171
63. Willy, RW, Scholz, JP and **Davis, IS**. (2012). Mirror gait retraining for the treatment of patellofemoral pain in female runners. *Clinical Biomechanics* 27(10):1045-51*.*
64. Chimera, NJ, Castro, M, **Davis, IS** and Manal, K (2012). The effect of isolated gastrocnemius contracture and gastrocnemius recession on lower extremity kinematics and kinetics during stance. *Clinical Biomechanics,* 27(9):917-23*.*
65. Altman, AR and **Davis, IS** (2012). Barefoot Running: Biomechanics and Implications for Injuries (2012). *Current Sports Medicine Reports*, 11(5):244-50.
66. Silbernagel, KG, Willy, RW and **Davis, IS** (2012). Pre and post-injury running analysis along with measurements of strength, endurance and tendon length in a patient with an Achilles tendon rupture. *Journal of Orthopedic and Sports Physical Therapy,* 42(6):521-9.
67. Altman, AR, Reisman, DS, Higginson, JS and **Davis, IS** (2012). A kinematic method for footstrike pattern detection in barefoot and shod runners. *Gait and Posture,* [35(2):](http://www.sciencedirect.com/science/journal/09666362/35/2)298-300.
68. Noehren, B, Barrance, PJ, Pohl, MP and **Davis, IS.** (2012). A comparison of tibiofemoral and patellofemoral alignment during a neutral and valgus single leg squat: An MRI study. *The Knee,* 19(4):380-6.
69. Cheung, RT and **Davis, IS** (2011). Landing pattern modification to improve patellofemoral pain in runners: a case series. *Journal of Orthopedic and Sports Physical Therapy,* 41(12):914-919*.*
70. Willy, RW and **Davis, IS** (2011). The effect of a hip strengthening program on hip mechanics during running and during a single leg squat. *Journal of Orthopedic and Sports Physical Thera*py, 41(9):914-919.
71. Barrios, JA, Royer, T and **Davis, IS** (2011). Dynamic versus radiographic alignment in relation to medial knee loading in symptomatic osteoarthritis. *Journal of Applied Biomechanics)* 28(5):551-9.
72. Crowell, HP and **Davis, IS** (2011). Gait retraining to reduce lower extremity loading in runners. *Clinical Biomechanics,* 26(1):78-83.
73. Noehren, BM, Scholz, JP and **Davis, IS**. (2011). The effect of real-time gait retraining on hip kinematics pain and function in subjects with patellofemoral pain syndrome. *British Journal of Sports Medicine,* 45:691-696.
74. Butler RJ, Barrios JA, Royer TD, **Davis IS** (2011). Frontal plane gait mechanics differ between medial and lateral knee osteoarthritis. *Phys Ther* 91:1235-1243.
75. Dierks TA, Manal KT, Hamill J, **Davis I** (2011). Lower extremity kinematics in runners with patellofemoral pain during a prolonged run. *Medicine & Science in Sports & Exercise*, 43:693-700.
76. Lloyd, C, **Davis, IS**, and Royer, TD. (2010). Strength asymmetry and osteoarthritis risk factors in unilateral, trans-tibial amputee gait. *Gait and Posture,* 32(3)296-300.
77. Morrison, K, Hudson, D, and **Davis, I**, Richards, J, Royer, T, Dierks, T, and Kaminski, T (2010). Plantar pressure distributions during a running gait in subjects with chronic ankle instability. *Foot and Ankle International*,31(11):994-1000.
78. Noehren, BM, Manal, K and **Davis, IS** (2010) Improving between-day kinematic reliability using a marker placement device. *Journal of Orthopedic Research,* *28*:1405-1410.
79. Fellin, RA, Rose, WC, Royer, TD and **Davis, IS** (2010). Comparison of methods for kinematic identification of footstrike and toe-off during overground and treadmill running. *Journal of Medicine and Science in Sport,* 13(6):646-650.
80. Dierks TA, Davis IS, Hamill J. (2010) The effects of running in an exerted state on lower extremity kinematics and joint timing. *Journal of Biomechanics*, 43:2993-2998.
81. Lieberman, DE, Daoud, AI, Werbel, WA, Venkadesan, M, D’Andrea,S, **Davis**, **IS**, Mang’Eni, RO, Pitsiladis, Y (2010). Foot Strike Patterns and Impact Transient Forces in Habitually Barefoot versus Shod Runners. *Nature,* 463:531-535.
82. Fellin, RE, Manal, K, and **Davis, IS** (2010). Comparison of lower extremity kinematic curves during overground and treadmill running. Journal of Applied Biomechanics, 26(4):407-414.
83. Barrios, JA, Crossley, K, and **Davis, IS** (2010). Gait retraining to reduce the knee adduction moment through real-time visual feedback of dynamic knee alignment. *Journal of Biomechanics* 43(11): 2208-2213.
84. Crowell, HP, Hamill, J, Milner, CE and **Davis, IS**. (2010). Reducing impact loading during running with the use of real-time visual feedback. *Journal of Orthopedic and Sports Physical Therapy,* 40(4):206-213.
85. Ferber, R, Noehren, B, Hamill, J, and **Davis, I**. (2010). Competitive female runners with a history of iliotibial band syndrome demonstrate atypical hip and knee kinematics. *Journal of Orthopedic and Sports Physical Therapy,* 2010;40(2):52-58.
86. Milner, CE, Hamill, J and **Davis, IS** (2010). Distinct hip and rearfoot kinematics in female runners with a history of tibial stress fracture. *Journal of Orthopedic and Sports Physical Therapy* 40(2):59-66.
87. **Davis, IS** and Powers, CM (2010). Patellofemoral pain syndrome: Local, distal and proximal factors: Consensus statement from the 2009 international research retreat. *Journal of Orthopedic and Sports Physical Therapy,* 40(3):A1-A48*.*
88. Barrios, JA, Royer, T, Higginson, J and **Davis, IS**. (2009). Static and dynamic correlates of the knee adduction moment in healthy knees ranging from normal to varus-aligned. *Clinical Biomechanics*, 24:850-854
89. Pohl, MB, Hamill, J and **Davis, IS**. (2009). Biomechanical and anatomical factors associated with a history of plantar fasciitis in female runners. *Clinical Journal of Sports Medicine,* 19(5):372-376*.*
90. MacLean, CL. **Davis, IS** and Hamill, J. (2009). Influence of running shoe midsole composition and custom foot orthotic intervention on lower extremity dynamics during running. Journal of Applied Biomechanics 25(1):54-63.
91. Barrios, JA, **Davis, IS**, Higginson, JS and Royer, TD. (2009). Lower extremity walking mechanics of young individuals with asymptomatic varus knee alignment. *Journal of Orthopedic Research*, 27(11):1414-1419.
92. Butler, RJ, Royer, TD, Barrios, JA, and **Davis, IS** (2009). Effect of laterally wedged foot orthoses on rearfoot and hip mechanics in patients with medial knee osteoarthritis. *Prosthetics and Orthotics, International,* 33(2):107-116.
93. Barrios JA, Crenshaw JR, Royer TD, **Davis IS** (2009). Walking shoes and laterally wedged orthoses in the clinical management of medial tibiofemoral osteoarthritis: A one-year prospective controlled trial. *The Knee*, 16:136-142.
94. Willson, JD and **Davis, IS** (2009). Core strength measurements and lower extremity jumping mechanics in females with and without patellofemoral pain. *Journal of Sport Rehabilitation* 18:76-90.
95. Zifchock, RA and **Davis I** (2008). A comparison of custom and semicustom foot orthotics in high and low arched runners. *Clinical Biomechanics*, 23:1287-1293.
96. Willson, JD and **Davis, IS** (2008). Utility of the frontal plane projection angle in females with patellofemoral pain. *JOSPT,* 38(10):606-615.
97. Hamill, J, Miller, R, Noehren, B and **Davis, I** (2008). Prospective study of Iliotibial Band strain in runners. *Clinical Biomechanics* 23(8):1018-1025.
98. Willson, JD, Binder-Macleod, S, and **Davis, IS** (2008). Lower extremity jumping mechanics of females with and without patellofemoral pain before and after exertion. *Am J Sports Med*. 36,1587-1596.
99. Zifchock, RA, Royer, T, Higginson, J & **Davis, IS** (2008) Side-to-Side Differences in Overuse Running Injury Susceptibility: A Retrospective Study. *Human Movement Science* 27:888-902.
100. Dierks, TA, Hamill, J, Manal, K. and **Davis, IS** (2008). Proximal and Distal Influences on Hip and Knee Kinematics in Runners with Patellofemoral Joint Pain. *JOSPT*  38(8)453-456*.*
101. Pohl, M, Mullineaux, D, Milner, C, Hamill, J and **Davis, I** (2008). Biomechanical predictors of retrospective tibial stress fractures in runners. *Journal of Biomechanics 41:1160-1165.*
102. **Davis, I**, Zifchock, R and Deleo, A (2008). A comparison of semi-custom and custom orthoses on rearfoot control and comfort. *JAPMA 98(5):1-10.*
103. Willson, JD and **Davis, IS** (2008). Lower extremity mechanics of females with and without patellofemoral pain across activities with progressively greater task demands. *Clinical Biomechanics 23:203-211.*
104. Zifchock, RA and **Davis, IS** (2008). The symmetry angle: A novel, robust method of quantifying asymmetry. *Gait and Posture* 27:622-627.
105. MacLean, C, **Davis, I,**  and Hamill, J (2008). Short and longterm influences of a custom foot orthotic intervention on lower extremity dynamics. *Clinical J Sports Med 18:3.*
106. Butler, R.J., H.Hillstom, J. Song, C.J. Richards & **I.S. Davis**. (2008) The arch height index measurement system: Establishment of reliability and normative values. *J* *Am Pod Assoc,* 98(2):102-106.
107. Zifchock, RA and **Davis, IS** (2008). Non-consecutive versus consecutive footstrikes as an equivalent method of assessing gait asymmetry. *Journal of Biomechanics* 41(1), 226-230.
108. Noehren, B, **Davis, I**, and Hamill, J (2007) A prospective study of the biomechanical factors associated with iliotibial band syndrome. Clinical Biomechanics Award Winner 2006. *Clinical Biomechanics* 22:951-956
109. Milner, C**, Davis I** (2007). Are knee mechanics during early stance related to tibial stress fractures in runners? *Clin Biom* 22(6):697-703.
110. Butler, R.J., Royer, T. & **I.S. Davis** (2007). The effect of a subject specific amount of lateral wedge on knee mechanics in patients with medial knee osteoarthritis. *J. Ortho. Res* 25(9):1121-1127.
111. Dierks, T and **Davis, I**  (2007). Discrete and continuous joint coupling measures in uninjured recreational runners. *Clinical Biomechanics* 22(5):581-591*.*
112. Chang, R., **Davis, I. S.,** & Hamill, J. (2007). Rearfoot norms in a young, healthy population. *Journal of Biomechanics*, *40*, S492
113. Butler, R.J., J. Hamill & **I.S. Davis**. (2007) Effect of footwear on high and low arched runners’ mechanics during a prolonged run. *Gait and Posture* 26(2):219-225.
114. **Davis, IS**, Ireland, ML and Hanaki, S. (2007). ACL Injuries: The Gender Bias. Research Retreat III. *JOSPT,* 37(2):A1-A32.
115. McCrory JL, Quick NE, Shapiro R, Ballantyne BT, and **Davis IM** (2007). The effect of a single treatment of the Protonics system on lower extremity kinematics during gait and the lateral step up exercise. *Gait and Posture,* 25(4):544-548.
116. Butler, R.J., J. Hamill & **Davis, IS**. (2006) Interaction of arch type and footwear on running mechanics. *Am. J. Sports Med*. 34(12):1998-2005.
117. Willson, J, Ireland, ML, and **Davis, IS** (2006). Core strength and lower extremity alignment during single leg squats. *Med Sci Sport and Exercise* 38(5):945-952.
118. Zifchock, RA, **Davis, IS**. & Hamill, J. (2006) Kinetic asymmetry in female runners with and without tibial stress fractures *Journal of Biomechanics,* 39(15):2792-2797.
119. Milner, CE, **Davis, IS** and Hamill, J. (2006) Relationship between free moment and tibial stress fractures. *Journal of Biomechanics*. 39(15):2819-2825.
120. Zifchock, RA, **Davis, IS**, Hillstrom, H, & Song, Jinsup (2006). The effect of age, gender and lateral dominance on arch height and stiffness. *Foot and Ankle, Intl* 27(5), 367-372.
121. MacLean, C., **Davis, I.,** Hamill, J (2006). Influence of a custom foot orthotic intervention on lower extremity dynamics in healthy runners. *Clinical Biomechanics* 21(6):623-630.
122. Mullineaux, DR, Milner, CE, **Davis, IS**, and Hamill, J (2006) Normalization of ground reaction forces. *Journal of Applied Biomechanics* 22:229-231.
123. Milner, CE, **Davis, IS**, Ferber, R, Pollard, CD & Hamill, J (2006). Biomechanical factors associated with tibial stress fractures in female runners. *Med Sci Sport and Ex.* 38, 323-328.
124. Buchanan, K and **McClay Davis, I**. (2005). The relationship between forefoot alignment and rearfoot and midfoot compensation. *J. Orth. Sports PT* 35(9):559-566.
125. Denton, J, Willson, J, Ballantyne, B and **McClay Davis, I** (2005). Addition of the Protonics brace system to a rehabilitation protocol to address patellofemoral pain syndrome. *Journal of Orthopedic and Sports Physical Therapy* 35(4):210-219.
126. Willson, J, Dougherty, C, Ireland, ML, and **McClay Davis, I** (2005). Core Stability: and its relationship to lower extremity function and injury. *Journal of the American Academy of Orthopedic Surgeons* 13:316-326
127. Ferber, R, and **McClay Davis, I** (2005). The effect of orthotics on lower extremity joint coupling. *Journal of Biomechanics* 38:477-483.
128. **Davis, I** (2004). How do we accurately measure foot motion? Guest Editorial, *Journal of Orthopedic and Sports Physical Therapy* 34(9):503-504.
129. **Davis, I** (2004) Measuring Foot Motion: Forward and Inverse Dynamic Models: Foot and Ankle Research Retreat Introduction and Consensus Statement. *Journal of Orthopedic and Sports Physical Therapy* 34(9):A1-A4.
130. Pollard, C, **McClay Davis, I**, and Hamill, J. (2004) Influences of gender on hip and knee mechanics during an unanticipated cutting maneuver. *Clin Biomechanics* 19(10):1022-1031.
131. Deleo, A, Dierks, T, Ferber, R, and **McClay Davis, I** (2004) Joint coupling during running: An update. *Clinical Biomechanics* 19(10):983-991.
132. Leetun, D, Willson, J, Ireland, ML, Ballantyne, B and **McClay Davis, I** (2004). Core strength and lower extremity injuries in athletes. *Medicine and Science in Sport and Exercise.*36(6):926-934.
133. Hurd, W, Chiemelewski, T, Axe, M, **McClay Davis, I**, Snyder-Mackler, L (2004) “Gender Differences in Lower Extremity Mechanics in Normal and Perturbed Walking”. *Clinical Biomechanics* 19(5):465-472.
134. McCrory, J, Quick, N, Shapiro, R, Ballantyne, B and **McClay Davis, I**. (2004) The effect of a single treatment of the Protonics system on biceps femoris and gluteus medius activation during gait and the lateral step up exercise. *Gait and Posture.* 19(2):148-153.
135. Williams, DS, **McClay, IS**, Scholz, JP, Hamill, J, Buchanan, TS (2004). High-arched runners exhibit increased leg stiffness compared to low-arched runners. *Gait and Posture* (19):263-269.
136. Laughton, CA, **McClay, IS**, Hamill, J and Richards, J (2004). The Effect of Orthotic Intervention and Strike Pattern on Rearfoot Motion in Runners. *Clinical Biomechanics* 19(1):64-70.
137. Williams, DS, **McClay Davis, I** and Baitch, S (2003).Effect of inverted orthoses on lower extremity mechanics. *Medicine and Science in Sport and Exercise.* 35(12):2060-2068.
138. Ireland, ML, Ballantyne, B, Willson, J and **McClay Davis, I** (2003) The relationship between hip strength and patellofemoral joint pain. *Journal of Orthopedic and Sports Physical Therapy.*33(11):671-676
139. **McClay Davis, I,** and Irelend, ML (2003). ACL Research Retreat II: The Gender Bias. *Journal of Orthopedic and Sports Physical Therapy.*35(8):A1-A30.
140. McClay Davis, I. (2003) Research retreats: In search of more focus. Guest Editorial. *Journal of Orthopedic and Sports Physical Therapy.35(8):2-3.*
141. Laughton, CA, **McClay, IS**, Hamill, J and Richards, J (2003). The Effect of Orthotic Intervention and Strike Pattern on Tibial Shock in Runners. *Journal of Applied Biomechanics,* 19:153-168
142. Butler, R, **McClay Davis, I**, Laughton, C and Hughes, M (2003). Can a dual function orthosis control rearfoot motion and attenuate shock? *Foot and Ankle* 24(5):410-414
143. Butler, R, Crowell, HP, **McClay Davis, I** (2003). Lower extremity stiffness: Implications for performance and injury. *Clinical Biomechanics* 8(6), 511-517.
144. Ferber, R., **McClay Davis, I**, and Williams, D. (2003) Gender differences in lower extremity mechanics during running. *Clinical Biomechanics* 18(4), 350-357
145. Ott, S, Ireland, ML, Ballantyne, BT and **McClay, IS** (2003). Functional Outcome Measures following ACL Reconstruction: A Gender Comparison. *Knee surgery, sports traumatology and arthroscopy* 11:75-80.
146. Manal, KT & **McClay, IS** (2003) The accuracy of estimating proximal tibial translation during natural cadence walking: bone vs. skin mounted targets. *Clinical Biomechanics* 18(2):126-131*.*
147. Ferber, R, **McClay Davis, I**, & Williams, D (2002). Within and between day reliability of discrete lower extremity kinematic and kinetic variables during running. *Journal of Orthopedic Research* 20:1139-1145.
148. Laughton, CA, **McClay, IS** & Williams, DS (2002) Comparison of Four Methods of Obtaining a Negative Impression of the Foot. *Journal of the American Podiatric Society* 92(5):261-268
149. Sahte, V, Ireland, ML, Ballantyne BT, Quick, NE and **McClay, IS** (2002). Acute Effect of the Protonics System on Patellofemoral Alignment: an MRI study. *Knee surgery, sports traumatology and arthroscopy* 10(2002):44-48
150. Manal, KT, **McClay, IS**, Stanhope, SJ, and Richards, J (2002) Knee Moment Profiles during Walking: Errors due to Soft Tissue Movement and the Influence of the Reference Coordinate System. *Gait and Posture* 15(1)10-17.
151. **McClay Davis, I** & Lloyd Ireland, M (2001). The Gender Bias in ACL Injuries: A Research Retreat. *Clinical Biomechanics* 16(2001):937-939.
152. Williams, DS, **McClay, IS**, Hamill, J, Buchanan, TS (2001). Lower Extremity Kinematic and Kinetic Differences in Runners with High and Low Arches. *Journal of Applied Biomechanics.* 17:153-163.
153. Williams, DS, **McClay, IS**, Hamill, J, (2001). Arch Structure and Injury Patterns in Runners. *Clinical Biomechanics* (16)5:341-347.
154. **McClay, IS** (2001). Proceedings of the Foot Classification Conference*. Journal of Orthopedic and Sports Physical Therapy*. 31(3):154-160.
155. Ireland, ML, Ballantyne, BT, Little, K**, McClay, IS**. (2001) A Radiographic Analysis of the Relationship between the Size and Shape of the Intercondylar Notch and Anterior Cruciate Ligament Injury. *Knee surgery, sports traumatology and arthroscopy*.9:200-205.
156. Williams, DS & **McClay, IS** (2000). Measurements Used to Characterize the Foot and the Medial Longitudinal Arch:Reliability and Validity. *Physical Ther.* 80(9):864-871.
157. Williams, DS, **McClay, IS,** & Manal, KT. (2000) Mechanics of Runners with a Converted Forefoot Strike Pattern. *Journal of Applied Biomechanics* 16(2)210-218.
158. Manal, KT, **McClay, IS**, Stanhope, S, & Richards, J (2000). Comparison of Surface Mounted Markers and Attachment Methods in Estimating Tibial Rotations During Walking. *Gait and Posture* 11: 38-45
159. **McClay, IS** (2000) The Evolution of the Study of Running Mechanics: Relationships to Injury. *Journal of the American Podiatric Society* 90(3)133-148.
160. **McClay, IS** & Manal, KT (1999). Three-Dimensional Kinetic Analysis of Running: Significance of Secondary Planes of Motion. *Medicine and Science in Sports and Exercise* 31(11)1629-1637.
161. **McClay, IS** & Manal, KT (1998). A Comparison of Three-dimensional Lower Extremity Kinematics during Running between Pronators and Normals. *Clinical Biomechanics* 13(3):195-203*.*
162. **McClay, IS** & Manal, KT (1998). The Relationship between Angle of Gait and Differences between Two-Dimensional and Three-Dimensional Rearfoot Motion. *Foot and Ankle* 19(1):26-31.
163. **McClay, IS** & Bray, J (1996). The Subtalar Angle - a potential measure of rearfoot structure. *Foot and Ankle,* 17(8):1-4.
164. **McClay, IS** (1996). Statistically Significant, but Clinically Irrelevant. Guest Editorial, *Journal of Orthopedic and Sports Physical Therapy*, 23(12).
165. **McClay, IS** & Manal, KT (1996). Coupling Parameters in Runners who Pronate and Normals. *Journal of Applied Biomechanics* 13(1):109-124*.*
166. **McClay, IS** & Cavanagh, PR (1994). Mediolateral Force Patterns in Distance Running. *Clinical Biomechanics* 9:117-123.
167. **McClay, IS**, Robinson, JR, et al (1994). A Kinematic Profile of Skills in Professional Basketball Players. *Journal of Applied Biomechanics*, 10(3):205-221, 1994.
168. **McClay, IS**, Robinson, JR, et al. (1994) A Profile of Ground Reaction Forces in Professional Basketball Players. *Journal of Applied Biom*, 10(3):222-236, 1994.

Book Chapters

1. **Davis, IS** and Troy, KT (2021). Gait Retraining for Tibial Stress Fractures in Running. In; Tenforde and Fredericson. Bone Stress Injuries. New York, NY: Demos Publishing; in press.
2. **Davis, IS** and Hollander, K (2019) The Interaction of Footwear and Footstrike in Runners. in Clinical Care of the Runner. Ed. Mark Harrast, Elsevier, Amsterdam, NL.
3. **Davis, IS** and Fu, W. (2017). Footwear Matters: Interplay of Footwear, Mechanics, Injury and Performance. In The Long Distance Runner's Guide to Injury Prevention and Treatment: How to Avoid Common Problems and Deal with them when they Happen. Eds. BJ Krabak, GS Lipman, BL Waite. Skyhorse Publishing, New York, NY. Publication: August 2017.
4. **McClay, IS** (1995): "The Use of Gait Analysis to Enhance the Understanding of Running Injuries". In *Gait Analysis: Theory and Application.* ed. RL Craik & CA Oatis, Human Kinetics, Champaign, Ill .
5. **McClay, IS** (1995): "A Case Report: Biomechanical Perspective". In *Gait Analysis: Theory and Application.* ed. RL Craik & CA Oatis, Human Kinetics, Champaign, Ill.
6. **McClay, IS**, Lake, MJ, & Cavanagh, PR (1990): "Muscle Activity in Running". In *The Biomechanics of Distance Running.* ed. PR Cavanagh, Human Kinetics, Champaign, Ill.

Non-Peer Reviewed Publications

1. **Davis, IS** (2005). How to Succeed in Graduate School. In *ACSM Fellows Offer Advice,* Susan Hall (ed), publisher: American College of Sports Medicine, Indianapolis, IN
2. **Davis, IS** (2005). Evaluation of the Injured Runner. *In Touch*, Journal of the Organization of Chartered Physiotherapists in Private Practice Winter (113):4-9.
3. **Davis, IS** (2005). Gait Retraining in Runners. *Orthopedic Physical Therapy Practice* 17(2)8-13.

**Invited Presentations**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Local**

1. **Davis, IS.** "The SNRC Treatment Philosophy". Presented to the Spaulding PM&R Residents, Charlestown, MA, Feb, 2018.
2. **Davis, IS.** "The Foot Core Paradigm". Presented to the Spaulding PM&R Residents, Charlestown, MA, Feb, 2017.
3. **Davis, IS.** "Effective Manuscript Writing". Presented to the Spaulding PM&R Residents, Boston, MA, May, 2016.
4. **Davis, IS.** "Alignment and Loading: Global Indicators of Running Injuries", Presentation for Spaulding Outpatient Center, Salem, MA, May, 2016.
5. **Davis, IS.** " Gait Retraining to Reduce Injury Risk". Presented to the Pediatric Sports Medicine Fellows, Boston Children's Hospital, Boston, MA, Jan 2016.
6. **Davis, IS.** “Benefits and Pitfalls of Barefoot Running”. Presentation in the “Healthy Mind, Healthy Body: Benefits of Exercise” Session of the Harvard Medical School Longwood Series, Harvard Medical School, Boston, MA, March, 2014.
7. **Davis, IS.** “Benefits and Pitfalls of Barefoot/Minimal Footwear Running” Orthopedic Grand Rounds, Brigham and Women’s Hospital, Harvard Medical School, Sept, 2013.
8. **Davis, IS.** “Barefoot Running: Shifting Paradigms regarding Footstrikes, Footwear and Treatment of the Foot” Lecture to Physical Medicine and Rehabilitation Residents, Spaulding Rehabilitation Hospital, Harvard Medical School, Sept, 2013.
9. **Davis, IS** and Morrison, R. “Core Stability and Running Injuries”. Presented at Harvard on the Move, Harvard University, November, 2012.
10. **Davis, IS**. “Evaluation of the Injured Runner”. Presented to the Harvard PM&R Residents, Boston, MA, October, 2012
11. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Community Lecture Series, Spaulding-Cape Cod, June, 2012.
12. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Presented to the MGH Sports Medicine Dept, Patriots Place, MA, May, 2012.
13. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Cambridge Outpatient Center, Cambridge, MA, December, 2011.
14. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Medford Outpatient Center, Medford, MA, June, 2011.
15. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Braintree Outpatient Center, Braintree, MA, October, 2011.
16. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Newton-Wellesley Hospital Orthopedic Grand Rounds, Wellesley, MA, October, 2011.
17. **Davis, IS**. “Top Ten Myths about Running”. Presented at the Partners Health Expo, Boston, MA, June, 2011.
18. **Davis, IS**. “Shifting Paradigms Regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Marblehead Outpatient Center, Marblehead, MA, June, 2011.
19. **Davis, IS**. “The Spaulding National Running Center: Where Science meets Medicine”. Presented to the Partners Continuing Care Board of Directors Meeting, Boston, MA, May, 2011.
20. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Cambridge Inpatient Center, Cambridge, MA, May, 2011.
21. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Spaulding-Framingham Outpatient Center, Framingham, MA, April 2011.
22. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Spaulding-Wellesley Outpatient Center, Wellesley, MA, April 2011.
23. **Davis, IS**. “The Spaulding National Running Center: Where Science meets Medicine”. Presented to the Partners Continuing Care Senior Management Meeting, Cambridge, MA, March, 2011.
24. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the ‘Harvard on the Move’ seminar, Harvard University, Cambridge, MA, March, 2011.
25. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Harvard Medical School Dept of Physical Medicine and Rehabilitation Seminar, Boston, MA, February, 2011.
26. **Davis, IS**. “Evaluation of the Injured Runner”. Presented at the Spaulding-Cape Cod Hospital Seminar, Sandwich, MA, January, 2011.
27. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Spaulding-Cambridge Outpatient Dept, Cambridge, MA, January, 2011.
28. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the University of Delaware Library Series Seminar, Newark, DE, December, 2010.
29. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the University of Delaware Mechanical Engineering Dept Seminar, Newark, DE, November, 2010.
30. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at the Hockessin Athletic Club, Hockessin, DE, November, 2010.
31. **Davis, IS** “Case Studies in the Injured Runner”. Presented at the Medical Aspects of Sports Medicine Mtg, University of Delaware, March, 2003.

**Regional**

1. **Davis, IS** "Born to Move: The Effect of Evolutionary Mismatch on Biomechanics and Musculoskeletal Health". Invited Speaker, Dept of Physical Therapy, Boston University, October, 2021.
2. **Davis, IS.** "Thinking Differently about the Injured Runner" Presented to Tufts PM&R Residents, Boston, MA, Aug 2016.
3. **Davis, IS.** "Biomechanics of Running: Implications for Gait Retraining. Presented at the 2016 Micheli Lecture: The Science of Running Injury Prevention. Boston, MA, Sept 2016
4. **Davis, IS.**  "Let's Think about what we Put on our Feet". WGBH Nova Science Café. Cambridge, MA, July, 2016.
5. **Davis, IS.** “Injury Mechanics in Female Runners…..and how to Fix them”. Presented at the Female Athlete Course, Wellesley, MA, June, 2015
6. **Davis, IS** and Davin, P. “Learning to RunStrong”. Presentation at Spaulding Cape Cod, Sandwich, MA, April 2015.
7. **Davis, IS.** “The Science of Running at the Spaulding National Running Center”. Presented at the Cambridge Science Festival, Cambridge, MA.
8. **Davis, IS.** “Proper Transitioning to Barefoot/Minimal Footwear Running”. Presentation at the ”Regional Seminar Series on Running”, Mass General Hospital Institute for Health Professions, Charlestown, MA, June, 2014.
9. **Davis, IS.** “If we Evolved to Run, Why do we get so Injured Doing it?”. Presentation at the ”Regional Seminar Series on Running”, Mass General Hospital Institute for Health Professions, Charlestown, MA, June, 2014.
10. **Davis, IS.** “Barefoot/Minimal Footwear Running”. Presentation at the ”Regional Seminar Series on Running”, Mass General Hospital Institute for Health Professions, Charlestown, MA, June, 2014.
11. **Davis, IS.** “Alignment and Loading: Global Indicators for Patellofemoral Pain”. Presentation at “The New England Sports and Orthopedic Rehabilitation Summit 2014, Advances in Rehabilitation of the Lower Extremity”, Brown University, Providence, RI, April, 2014.
12. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote Lecture at University of Hartford Research Day, Hartford, CT, April, 2013.
13. **Davis, IS.** “Evaluation of the Injured Runner”. Grand Rounds, Good Samaritan Hospital, Brockton, MA, March, 2013.
14. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote Lecture at the Mid-Atlantic Regional American College of Sports Medicine Meeting, Harrisburg, PA, November, 2012.
15. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Boston University Athletic Training Club, Boston, MA, November, 2012.
16. **Davis, IS**. “Gait Analysis in Runners”. Presented to the Boston Children’s Hospital Orthopedic Residents, Boston, MA, October, 2012.
17. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Saco Bay Sports Medicine Conference, Saco, ME, April, 2012.
18. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the McCabe Lecture, Springfield College, Springfield. MA, April, 2012.
19. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Boston Sports Club, March, 2012.
20. **Davis, IS**. “SNRC Research”, Presented to the Natick Army Labs, Natick, MA, February, 2012.
21. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Good Samaritan Hospital, Brocton, MA, October, 2011.
22. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Bayside Athletic Club, Plymouth, MA, September, 2011.
23. **Davis, IS**. “Shifting Paradigms Regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Framingham Running Club, Framingham, MA, May, 2011.
24. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Training Room, Somerville, MA, April, 2011.
25. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Mass General Hospital Orthopedic Outpatient Center, Patriot Place, Foxboro, MA April, 2011.
26. **Davis, IS**. “Top Ten Myths about Running”. Presented at the ‘Bare Naked Running Tour, Boston Public Library, Boston, MA, April, 2011.
27. **Davis, IS**. “Gait Retraining: Altering the Fingerprint of Gait”. Presented at the Boston Medical Center Dept of Epidemiology Seminar, Boston, MA March, 2011.
28. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented at the Villanova Day of Distance Course, Villanova, PA, March, 2011.
29. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at the Drayer Physical Therapy Clinic, Lancaster, PA, October, 2010
30. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at the Pennsylvania College of Osteopathic Medicine, Philadelphia, PA, October 2010
31. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at the Beach to Beacon Pre-race Symposium, August, 2010
32. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at Hershey Medical Center, Hershey, PA, June, 2010.
33. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at Pennsylvania State University Conference Series, Malvern, PA, June, 2010.
34. **Davis, IS** “The Dreaded Stress Fracture: Relationship to Mechanics”. Keynote presented at the MidAtlantic ACSM Meeting, Harrisburg, PA, October, 2005.
35. **Davis, IS**. “Is there a right way to run? Relationships between mechanics and injury”. Presented at the Graduate Research Symposium, Penn State University, January, 2004,
36. **Davis, IS** “A Research Update on Orthotic Intervention”. Presented at the Research Symposium at the Temple University College of Podiatric Medicine, December, 2003.
37. **Davis, IS** “Foot and ankle case studies in runners”. Presented at the Research Symposium at the Temple University College of Podiatric Medicine, December, 2003.
38. **Davis, IS** “Evidence for the Effect of Foot Orthoses on Lower Extremity Mechanics”. Presented at Temple University College of Podiatric Medicine. February, 2003.
39. **Davis, IS** “The Relationship between Structure and Function in the Foot and Ankle”. Presented at the Foot Management Inc. Mtg, Ocean City, MD, October 2002.
40. **Davis, IS** “Normal and Abnormal Gait” Presented at the Foot Management Inc. Mtg, Ocean City, MD, October 2002.
41. **Davis, IS** "An Update on the Mechanics behind the Success of Orthotic Intervention". Presented at Temple University School of Podiatric Medicine research seminar series, Philadelphia, PA, February 2002.
42. **McClay, IS** "The Use of Motion Analysis in Physical Therapy". University of PA, Philadelphia, October, 1995.
43. **McClay, IS** "The Patellofemoral Joint - Implications of the study of three-dimensional kinematics". Grand Rounds, Dept. of Orthopedic Surgery, Hershey Medical Center, January, 1995.

**National**

1. **Davis, IS**. "Gait Retraining for Patellofemoral Pain". Presented at the Inaugural World Academy for Endurance Medicine, World Athletic Championships, Eugene, OR, July, 2022
2. **Davis, IS**. "Gait Retraining for Patellofemoral Pain". Presented at the Harvard Medical School Virtual Sports Medicine Mtg, Boston, MA, May 2022.
3. **Davis, IS.** "Army Landing Impacts and Injury". Presented at the Sahrmann Movement Science Retreat, St. Louis, MO, March 2022.
4. **Davis, IS** "The Foot Core: Thinking Differently about the Foot". Invited speaker for VA Portland Health Care System, Portland, OR, November, 2021.
5. **Davis, IS** "Born to Move: The Effect of Evolutionary Mismatch on Biomechanics and Musculoskeletal Health". Invited Speaker, Athletic and Human Performance Research Center, Marquette University, November, 2021.
6. **Davis, IS "**Major Revision Required: How to Respond to Reviewers' Comments and Get your Article Over the Finish Line". Invited Speaker in Harvard Women's Leadership Course, Boston, MA, October 2021.
7. **Davis, IS** "Born to Move: The Effect of Evolutionary Mismatch on Biomechanics and Musculoskeletal Health". DB Dill Historic Lecture, American College of Sports Medicine Virtual Meeting, June 2021.
8. **Davis, IS** "The Foot Core: A Paradigm Shift in the way we Treat the Foot". Presented Virtually to the Louisiana State University Health Shreveport Orthopedic Special Interest Group, Shreveport, LA, May 2021.
9. **Davis, IS** "Gait Retraining for Abnormal Foot and Ankle Mechanics ". Presented at the Virtual HMS Sports Medicine Meeting, Boston, MA, May, 2021.
10. **Davis, IS** "Application of Minimal Shoes across the Lifespan". Presented virtually to the American Academy of Sports Physical Therapy, April, 2021.
11. **Davis, IS** "Integrating Science into the Treatment of Runners". Seminar presented to the Dept of Physical Therapy, University of Indiana, Purdue University at Indianapolis, Indianapolis, IN, October, 2019.
12. **Davis, IS** "The Foot Core: Let's Think Differently about the Foot". Grand Rounds Seminar of the Orthopedic Department, St. Vincent's Hospital, Indianapolis, IN, October, 2019.
13. **Davis, IS** "Reducing Injuries in Youth Runners". Presented at the Tria Inaugural Physical Therapy Conference, Minneapolis, MN, October, 2019.
14. **Davis, IS** "Evaluation of the Injured Runner". Presented at the Tria Inaugural Physical Therapy Conference, Minneapolis, MN, October, 2019**.**
15. **Davis, IS** "The Foot Core Concept". Presented at the Advances in Running Medicine:Focus on the Foot and Ankle Meeting, Boston, MA, May 2019.
16. **Davis, IS** "Gait Retraining for Foot and Ankle Injuries"Presented at the Advances in Running Medicine:Focus on the Foot and Ankle Meeting, Boston, MA, May 2019.
17. **Davis, IS** "Updating Science on Optimizing Foot and Ankle Mechanics". Presented at the HMS Sports Medicine Meeting, Boston, MA, May, 2019**.**
18. **Davis, IS** "Integrating Science into the Treatment of Runners". Keynote Presented at Drexel University, April, 2019.
19. **Davis, IS** "The Foot Core:Lets Think Differently about the Foot". Keynote presented at the New York Medical College Research Day, April, 2019
20. **Davis, IS** "Mythbusters in Running" Sahrman Retreat, St Louis, MO, Mar 2019.
21. **Davis, IS** "Solving Overuse MSK Injuries in Runners'. Presented at the Special Warfare Group, Ft Bragg, NC, Dec, 2018.
22. **Davis, IS** "Well-Aligned, Soft Landings". Keynote Presentation at Distinguished Lecture Symposium, University of Nevada, Las Vegas, Nov 2018.
23. Davis**, IS** "Footwear Matters". Distinquished Lecture, University of Nevada, Las Vegas, Nov 2018.
24. **Davis, IS "**Integrating Science into the Treatment of Runners". Keynote Presentation for the Inaugural Grand Rounds, Boston, University, Nov 2018.
25. **Davis, IS** "A Biomechanical Approach to Patellofemoral Pain". Presented at the Advances in Running Medicine:Focus on Patellofemoral Pain Meeting, Boston, MA, May 2018
26. **Davis, IS.** "Foot Orthoses should not be used as a Longterm Tx of MSK disorders". Presented in the Debate on Foot Orthosis at the HMS Sports Medicine Meeting, Boston, MA, May, 2018
27. **Davis, IS.** "The Foot Core Paradigm: Let's Think Differently about the Feet". Presented at the HMS Sports Medicine Meeting, Boston, MA, May, 2018
28. **Davis, IS.** “Lets think differently about the foot” Keynote presentation at the Northwest Biomechanics Regional ASB Meeting, Bellingham, WA, May, 2018.
29. **Davis, IS. “**Footwear and Footstrike: Influences on the Knee.” Presented at the 2018 Sahrmann Retreat, St. Louis, MO, Mar, 2018
30. **Davis, IS** “Gait Retraining: A Biomechanical Approach to Running Injuries”. Keynote at the Motion Analysis Research Center Symposium, Sam Merritt University, Oakland, CA, Nov, 2017
31. **Davis, IS** “The Path to Stronger, Healthier Feet”. Keynote at the Motion Analysis Research Center Symposium, Sam Merritt University, Oakland, CA, Nov, 2017**.**
32. **Davis, IS** "Preparation for Gait Retraining". Presented at the Advances in Running Medicine: Focus on Bone Stress Injuries Meeting, Boston, MA, April 2017
33. **Davis, IS** "Video Case Series of Runners". Presented at the Advances in Running Medicine: Focus on Bone Stress Injuries Meeting, Boston, MA, April 2017
34. **Davis, IS** "A Biomechanical Approach to Bone Stress Injuries". Presented at the Advances in Running Medicine:Focus on Bone Stress Injuries Meeting, Boston, MA, April 2017
35. **Davis, IS.** "The Foot Core Paradigm: Let's Think Differently about the Feet". Presented at the HMS Sports Medicine Meeting, Boston, MA, April 2017
36. **Davis, IS.** "The Foot Core Paradigm: A Key to Healthy Feet". Presented at the AAMA Boston Marathon Meeting, Boston, MA, April 2017
37. **Davis, IS.** "Thinking Differently about the Injured Runner". Presented to the Razorback Athletic Training Association, Univ of Arkansas, Little Rock, AK, Mar, 2017 (via teleconference).
38. **Davis, IS.** "Alignment and Loading: Global Indicators of Running Injuries" Keynote presented at the Shirley Sahrmann Research Retreat, St. Louis, MO, Feb 2016.
39. **Davis, IS.** "Gait Retraining: Altering the Fingerprint of Gait" Keynote presented at the Shirley Sahrmann Research Retreat, St. Louis, MO, Feb 2016.
40. **Davis, IS.** "Gait Retraining to Reduce Injury Risk."Keynote presented at the FAAOMT meeting, Louisville, KY, October 2015.
41. **Davis, IS** "Sex Differences in Running Mechanics" Presented at the American Academy of Physical Medicine and Rehabilitation, Boston, Ma, Oct 2015.
42. **Davis, IS** "Injury Mechanisms in Runners:Implications for Gait Retraining" Presented at the American Academy of Physical Medicine and Rehabilitation, Boston, Ma, Oct 2015.
43. **Davis, IS.** “An Update on Running Footwear: From Minimal to Maximal Shoes”. Presented at the American Medical Athletic Association Boston Marathon Meeting, Boston, MA, April 2015.
44. **Davis, IS.** “Re-emergence of the Minimal Shoe” Keynote Presentation, Illinois State University, Normal, IL, Oct 2014.
45. **Davis, IS.** “Benefits and Pitfalls of Barefoot/Minimal Footwear Running”. Presented at Marquette University, Milwaukee, WI, Sept, 2014
46. **Davis, IS.** “Gender Differences in the Biomechanics of Runners”. Presentation at the ”2014 MGH Sports Medicine Conference’, Dept of Orthopedics and Radiology, Mass General Hospital, Boston, MA, June, 2014.
47. **Davis, IS.** “Barefoot/Minimal Footwear Running”. Presentation at the ”Challenge Atlantic City Sports Medicine Symposium, Caesar’s Palace, Atlantic City, NJ, June, 2014.
48. **Davis, IS.** “Benefits and Pitfalls of Barefoot/Minimal Footwear Running”. Presentation at “The Sanford Sports Medicine Meeting”, Sanford Health Center, Sioux Falls, SD, April, 2014.
49. **Davis, IS.** “Proper Transitioning to Barefoot/Minimal Footwear Running”. Presentation at “The Sanford Sports Medicine Meeting”, Sanford Health Center, Sioux Falls, SD, April, 2014.
50. **Davis, IS.** “Can you Alter Gait Patterns”. Presentation at “The Sanford Sports Medicine Meeting”, Sanford Health Center, Sioux Falls, SD, April, 2014.
51. **Davis, IS.** “Benefits and Pitfalls of Barefoot Running”. Presentation in “Multidisciplinary Approach to Treating the Multisport and Endurance Athlete across Age, Gender and Injury”, New York University, New York, NY, March, 2014.
52. **Davis, IS.** “Benefits and Pitfalls of Barefoot Running”. Keynote Presentation at the American Society of Biomechanics Regional Meeting, University of North Carolina, Chapel Hill, NC, February, 2014.
53. **Davis, IS.** “Benefits and Pitfalls of Barefoot/Minimal Footwear Running”. Presented at Virtual Grand Rounds, Harvard Medical School, November, 2013.
54. **Davis, IS “**Can You Really Alter Gait Patterns?” Presented at the Advances in Evidence -Based Foot and Ankle Treatment Meeting, Napa, CA, November 2013.
55. **Davis, IS “**Gender Differences in the Biomechanics of Running’. Presented at the Advances in Evidence -Based Foot and Ankle Treatment Meeting, Napa, CA, November 2013
56. **Davis, IS. “**Lower Extremity Biomechanics and Knee Injury”**.** Presented at the 25th Ironman Sports Medicine Conference, Kona, Hawaii, October, 2013.
57. **Davis, IS. “**Barefoot Running:Shifting Paradigms”.Presented at the 25th Ironman Sports Medicine Conference, Kona, Hawaii, October, 2013.
58. **Davis, IS. “**Proper Transitioning to Barefoot/Minimal Footwear Running”.Presented at the 25th Ironman Sports Medicine Conference, Kona, Hawaii, October, 2013.
59. **Davis, IS**. “Alignment and Loading: Global Indicators of Injury”. Lecture at Female Athlete Conference, Wellesley, MA, June, 2013.
60. **Davis, IS** and Lane, KR “Proper Transitioning to Barefoot and Minimal Footwear Running”. Tutorial Lecture at the American College of Sports Medicine Mtg, Indianapolis, IN, June, 2013.
61. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Inaugural Lecture at Eli Lilly Pharmaceutical Co., Indianapolis, IN, May, 2013.
62. **Davis, IS.** “Top Ten Reasons to Shed your Traditional Running Shoes”. Boston Marathon Sports Medicine Symposium, Boston, MA, April, 2013.
63. **Davis, IS.** “Can you Really Change Gait Patterns?” American Medical Athletic Association 42nd Annual Sports Medicine Symposium at the Boston Marathon, Boston, MA, April, 2013.
64. **Davis, IS**. “Alignment and Loading: Global Indicators of Injury”. Keynote Lecture at Akron Sports Medicine Conference, Akron, OH, March, 2013.
65. **Davis, IS**. “Gait Retraining:Altering the Fingerprint of Gait”. Keynote Lecture at Akron Sports Medicine Conference, Akron, OH, March, 2013.
66. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote Lecture at Columbia University, New York, NY, February, 2013.
67. **Davis, IS.** “Gait Retraining: Altering the Footprint of Gait”. Presented at Virtual Grand Rounds, Harvard Medical School, January, 2013.
68. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote Lecture at the Hawkeye Sportsmedicine Conference, Iowa City, Iowa, December, 2012.
69. **Davis, IS**. “Loading and Alignment: Global Indicators of Injury”. Presented at the Hawkeye Sportsmedicine Conference, Iowa City, Iowa, December, 2012.
70. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Presented at the Hawkeye Sportsmedicine Conference, Iowa City, Iowa, December, 2012.
71. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Army Baylor Distinguished Lecture Series, June, 2012.
72. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the MGH Sportsmedicine Conference, Boston, MA, May 2012.
73. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to PM&R Grand Rounds, NY Presbyterian Hospital, NYC, NY, May 2012.
74. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Research Seminar, University of Buffalo, Buffalo, NY, April, 2012.
75. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Research Seminar, University of Buffalo, Buffalo, NY, April, 2012.
76. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Regional American Society of Biomechanics Meeting, Boise, ID April, 2012.
77. **Davis, IS**. “Loading and Alignment: Global Indicators of Injury”. Presented to the Boston Marathon Fitness Symposium, Boston, MA, April, 2012.
78. **Davis, IS**. “Loading and Alignment: Global Indicators of Injury”. Keynote ppresented to the Barefoot Running Festival, Boston, MA, April, 2012.
79. **Davis, IS**. “Loading and Alignment: Global Indicators of Injury”. Presented to the Boston Athletic Association Marathon Symposium, Boston, MA, April, 2012.
80. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Keynote presented to the Regional American College of Sports Medicine Mtg, St. Paul, MN, March, 2012.
81. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Keynote presented to the University of Florida Running Medicine Conference, Gainesville, FL, March, 2012.
82. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the University of Florida Running Medicine Conference, Gainesville, FL, March, 2012.
83. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Keynote presented to the University of Virginia Running Medicine Conference, Charlottesville, VA, March, 2012.
84. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the University of Virginia Running Medicine Conference, Charlottesville, VA, March, 2012.
85. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Texas American College of Sports Medicine Mtg, San Antonio, TX, March, 2012
86. **Davis, IS**. “Injury Mechanics in Runners”. Presented to the Advanced Team Physician Mtg, San Diego, CA, December, 2011.
87. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Presented to the Advanced Team Physician Mtg, San Diego, CA, December, 2011.
88. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Advanced Team Physician Mtg, San Diego, CA, December, 2011.
89. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Athletic Business Conference, Orlando, FL., June, 2011.
90. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Johns Hopkins Hospital PM&R Grand Rounds, Baltimore, MD, October, 2011.
91. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to Tomball Sports Medicine Center, Tomball, TX, June, 2011.
92. **Davis, IS**. “Gait Retraining: Altering the Fingerprint of Gait”. Presented at the University of Virginia Arts and Science of Sports Medicine Meeting, Charlottesville, VA , June, 2011.
93. **Davis, IS**. “Shifting Paradigms Regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented at the University of Virginia Arts and Science of Sports Medicine Meeting, Charlottesville, VA , June, 2011.
94. **Davis, IS**. “Shifting Paradigms Regarding Footwear, Footstrikes and Treatment of the Foot”. Presented to the Mechanical Engineering Department Seminar, Brown University, Providence, RI, May, 2011.
95. **Davis, IS**. “Gait Retraining: Altering the Fingerprint of Gait”. Presented at the American Medical Society for Sports Medicine Mtg, Salt Lake City, UT, April, 2011.
96. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented at the American Medical Society for Sports Medicine Mtg, Salt Lake City, UT, April, 2011.
97. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at BAA Boston Marathon Symposium, Boston, MA, April, 2011.
98. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Distinguished Speaker Series, Physical Therapy Dept, University of St. Louis, St. Louis, MO, March, 2011.
99. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the Navy Seal Teams #4 and #6, Portsmouth, VA, March, 2011.
100. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented at the Armed Forces Public Health Conference, Portsmouth, VA, March, 2011.
101. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Arcadia Physical Therapy Alumni Running Course, Arcadia, PA, March, 2011.
102. **Davis, IS**. “A Novel Approach to Evaluating and Treating the Runner with Patellofemoral Pain” Presented at the International Olympic Committee and Advanced Team Physician Course, Stanford, CA, June, 2009.
103. **Davis, IS**. “Video Gait Analysis: What can be Learned?” Presented at the International Olympic Committee and Advanced Team Physician Course, Stanford, CA, June, 2009.
104. **Davis, IS** "Comprehensive Treatment of Patellofemoral Pain Syndrome". Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
105. **Davis, IS** "Abnormal Running Mechanics and Injury". Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
106. **Davis, IS** "Pathomechanics of the Foot and Ankle." Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
107. **Davis, IS** "Evaluation of the Injured Runner." Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
108. **Davis, IS** "The Lower Quarter Exam." Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
109. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait. Presented at the New Hamphshire Musculoskeletal Institute 25th Annual Symposium, Manchester, NH, September, 2008.
110. **Davis, IS** "Relationship between Core Stability and Lower Extremity Function and Injury". Presented at the New Hamphshire Musculoskeletal Institute 25th Annual Symposium, Manchester, NH, September, 2008.
111. **Davis, IS** "A Biomechanical Approach to the Evaluation and Treatment of Tibial Stress Fractures". Presented at the Army Stress Fracture Research Meeting, Fort Jackson, SC, February, 2008.
112. **Davis, IS**. "Relationship between Abnormal Running Mechanics and Injury." Presented at the Drayer Physical Therapy institute National Sports Medicine Meeting, Hilton Head, SC, October, 2007.
113. **Davis, IS**. "An Evidence-Based Lower Quarter Exam". Presented at the Drayer Physical Therapy institute National Sports Medicine Meeting, Hilton Head, SC, October, 2007.
114. **Davis, IS**. "Assessment of the Injured Runner". Presented at the Drayer Physical Therapy institute National Sports Medicine Meeting, Hilton Head, SC, October, 2007.
115. **Davis, IS** "Effect of Wedged Orthoses in Patients with Knee Osteoarthritis”. Presented at the Pedorthic Association Mtg in San Antonio, Texas, November, 2007.
116. **Davis, IS** “Assessment of the Lower Quarter in Injured Runners”. Presented at the Milwaukee School of Medicine Sports Medicine Meeting, Milwaukee, IL, March, 2007.
117. **Davis, IS** “Visual Gait Analysis for the Injured Runner”. Presented at the Milwaukee School of Medicine Sports Medicine Meeting, Milwaukee, IL, March, 2007.
118. **Davis, IS** “The Use of Realtime Feedback for Gait Retraining in Runners”. Presented at the University of Washington Medical School Running Medicine Meeting, Milwaukee, IL, March, 2007.
119. **Davis, IS** “Running Right: Relationships between Injury and Mechanics” Presented at the University of Washington Medical School Running Medicine Meeting, Milwaukee, IL, March, 2007.
120. **Davis, IS** “The Use of Realtime Feedback for Gait Retraining in Runners”. Presented at the Hospital for Special Surgery, February, 2007.
121. **Davis, IS** "Patellofemoral Pain Syndrome: Local, Distal and Proximal Factors". Presented at the Hospital for Special Surgery, February, 2007.
122. **Davis, IS**, "Effect of Wedged Orthoses in Patients with Knee Osteoarthritis: An Update". Presented at the Hospital for Special Surgery, February, 2007.
123. **Davis, IS** "Patellofemoral Pain Syndrome: Local, Distal and Proximal Factors". Presented at the Prescription Foot Orthotic Laboratory Association Mtg, Chicago, IL, December, 2006.
124. **Davis, IS**, Barrios, J, Royer, Lloyd, C and Royer, T. "Effect of Wedged Orthoses in Patients with Knee Osteoarthritis: An Update". Presented at the Prescription Foot Orthotic Laboratory Association Mtg, Chicago, IL, December, 2006.
125. **Davis, IS** "Evaluation of the Injured Runner". Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, SC, October, 2006.
126. **Davis, IS** " The Role of Core Stability in Lower Extremity Mechanics and Injury". Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, SC, October, 2006.
127. **Davis, IS** "Stress Fractures and Loading: The Tipping Point". Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, SC, October, 2006.
128. **Davis, IS** "Stress Fractures and Loading: The Tipping Point". Presented at the Natick Army Labs, Natick, MA, October, 2006.
129. **Davis, IS** "The Use of Realtime Feedback for Gait Retraining in Runners." Grand Rounds, Boston Medical Center, Boston, MA, October, 2006.
130. **Davis, IS** "Stress Fractures and Loading: The Tipping Point". Presented at the University of Ohio, Department of Exercise Science, Toledo, OH, April, 2006.
131. **Davis, IS** "Addressing the Hip in Patellofemoral Disorders". Presented at the Symposium on Patellofemoral Disorders, Combined Sections Meeting of the APTA, San Diego, CA, February, 2006.
132. **Davis, IS** "Stress Fractures and Loading: The Tipping Point". Presented at the Virginia Tech University, Department of Mechanical Engineering, January, 2006.
133. **Davis, IS** "The Role of Core Stability in Lower Extremity Mechanics and Injury". Presented at the FORUM Meeting, Las, Vegas, NV, January, 2006.
134. **Davis, IS** “The Role of Hip Control in Lower Extremity Mechanics and Injury”. Presented at the National Athletic Training Association Meeting, Indianapolis, IN, June 2005.
135. **Davis, IS** “The Role of Hip Control in Lower Extremity Mechanics and Injury”. Presented at the American Orthopedic Association Meeting, Huntington Beach, CA, June 2005.
136. **Davis, IS** “Observational Gait Analysis”. Presentation at the Running Medicine Meeting, Charlottesville, VA, March, 2005.
137. **Davis, IS** “"Is there a Right Way to Run: Relationships between Mechanics and Injury". Keynote presentation at the Running Medicine Meeting, Charlottesville, VA, March, 2005.
138. **Davis, IS**. “The Effect of Laterally Wedged Foot Orthoses on Lower Extremity Mechanics of Patients with Medial Knee OA”. Presented at the Prescription Foot Orthotic Laboratory of America (PFOLA) Mtg, Boston, MA, October, 2004.
139. **Davis, IS**. “Is there a right way to run? Relationships between mechanics and injury”. Presented at the and Science of Sports Medicine, Charlottesville, VA, June, 2004.
140. **Davis, IS**. “Relationships between structure and mechanics”. Presented at the and Science of Sports Medicine, Charlottesville, VA, June, 2004.
141. **Davis, IS** & Hamill, J. "The Biomechanical Etiology of Stress Fractures in Female Runners”. Presented at the United States Army Research Institute of Environmental Medicine", May, 2004.
142. **Davis, IS** “The Role of Core Stability in Lower Extremity Injuries”. Presented at the University of MA seminar series, Amherst, MA, November, 2003.
143. **Davis, IS** “Comparison of Comfort and Rearfoot Control between a Semicustom and Custom Foot Orthoses”. Presented at the Prescription Foot Orthotic Laboratory of America (PFOLA) Mtg, Las Vegas, NV, December 2003.
144. **Davis, IS** “Biomechanical Considerations for Various Types of Foot Orthoses”. Presented in the symposium titled “Clinical and Biomechanical Efficacy of Foot Orthoses” at the American College of Sports Medicine Mtg in San Francisco, CA, May, 2003.
145. **Davis, IS** “Influence of Foot and Ankle Mechanics of Patellofemoral Joint Dysfunction: A Ground Up Biomechanical Perspective”. Presented in the symposium titled “The Influence of Lower Quarter Mechanics on Patellofemoral Joint Dysfunction” at the American College of Sports Medicine Mtg in San Francisco, CA, May, 2003.
146. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait" Presented at the Drayer Physical Therapy Institute National Conference, Hilton Head, South Carolina, October, 2008.
147. **Davis, IS** “Structural Deformities of the Foot: Assessment and Clinical Implications”. Presented at the National Athletic Trainers Association Mtg, Dallas, TX, June, 2002.
148. **Davis, IS** “Running Mechanics and Injury”. Presented at the National Athletic Trainers Association Mtg, Dallas, TX, June, 2002.
149. **Davis, IS** **“**The Role of Core Instability in Lower Extremity Injuries”. Symposium: ACL Injuries and the Gender Bias. Presented at the American College of Sports Medicine Mtg in St. Louis, May, 2002.
150. **Davis, IS** “Biomechanical Case Studies in Running Injuries” Symposium: Evidence for injury mechanisms in runners”. Presented at the American College of Sports Medicine Mtg in St. Louis, May, 2002.
151. **Davis, IS** "The Application of Biomechanics to Sports Medicine: Focus on Running Injuries". Keynote lecture at the Midwest Student Biomechanics Symposium, Normal, IL, March, 2002.
152. **Davis, IS** "Core Instability and Lower Extremity Mechanics: Implications for Injury." Presented at the Combined Sections Meeting of the APTA, Boston, MA, February, 2002.
153. **Davis, IS** “An Update on Orthotic Research: What do Orthotics do?”. Presented at the Biokinesiology Graduate Research Seminar Series at the University of Southern California, Los Angeles, CA, Novemeber, 2001.
154. **Davis, IS** "The Effect of the Inverted Orthotic on Lower Extremity Mechanics: An Update". Presented at the Prescription Foot Orthotic Laboratory Association Annual Meeting, Miami, FL, November, 2001.
155. **Davis, IS** "How Do Foot Orthotic Devices Influence Lower Extremity Mechanics”. Presented at the Prescription Foot Orthotic Laboratory Association Annual Meeting, Miami, FL, November, 2001.
156. **McClay, IS** “Developing Standards in Epidemiological Research”. Presented at the National ACSM Mtg in Indianapolis, June, 2000.
157. **McClay, IS** “Effect of the Inverted Orthotic on Rearfoot and Knee Mechanics”. Presented at the 4th Annual John Weed Seminar, Palm Springs, CA, March, 2000.
158. **McClay, IS** “Influence of foot, knee and hip coupling on patellofemoral mechanics”. Symposium at the Combined Sections Meeting of the APTA, New Orleans, LA, February, 2000.
159. **McClay, IS** “Influence of foot, knee and hip coupling on patellofemoral mechanics”. Symposium at the National ACSM Mtg in Indianapolis, June, 2000.
160. **McClay, IS** “Influence of foot, knee and hip coupling on patellofemoral mechanics”. Presented at Arts and Science of Sports Medicine, Charlottesville, VA, June, 2000.
161. **McClay, IS** "Visual Gait Analysis in Runners". Presented at the Arts and Science of Sports Medicine, Charlottesville, VA, June, 2000.
162. **McClay, IS** “Coupling between the Foot and the Knee in Runners”. Presented at Joyner Sportsmedicine Institute National Conference, Hilton Head, SC, October, 1999.
163. **McClay, IS** “Biomechanics of the Knee”. Presented at Joyner Sportsmedicine Institute National Conference, Hilton Head, SC, October, 1999.
164. **McClay, IS** “Physical Therapist to Marathoner - A Classical Tale of Overuse.” Presented at the Case Conference Seminar at the Annual Conference of the American Physical Therapy Association, Minneapolis, MN, June, 1998.
165. **McClay, IS** "The Biomechanical Evaluation of the Injured Runner". Presented at The Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1998.
166. **McClay, IS** "The Biomechanical Evaluation of the Injured Runner". Presented at the East Coast Gait Conference, Bethesda, Md, November, 1997.
167. **McClay, IS** Eugene Michels Research Forum - “Instrumented versus Visual Gait Analysis in Clinical Assessments”. Presented at the Combined Sections Mtg in Dallas, TX, Feb., 1997.
168. **McClay, IS** “Biomechanical Differences between Forefoot and Rearfoot Strikers”. Presented at the Joyner Sportsmedicine Institute National Conference, Hilton Head, SC, Nov. 1996.
169. **McClay, IS** “Plantar Fasciitis:A Case Study”. Presented at the Case Conference Seminar at the Annual Conference of the American Physical Therapy Association, Minneapolis, MN, June, 1996.
170. **McClay, IS** "Abnormal Structure and Gait". Presented at the Management of the Foot and Lower Extremity Course, Foot Mgt, Inc in Ocean City, MD April, 1996.
171. **McClay, IS** "Closed Kinetic Chain Activities for the Foot and Ankle". Presented at the Management of the Foot and Lower Extremity Course, Foot Mgt, Inc in Ocean City, MD April, 1996.
172. **McClay, IS** "What is Clinical Research". Keynote Address at Research Symposium, Shenandoah University, April, 1994.
173. **McClay, IS** "Abnormal Structure and Gait". Presented at the Management of the Foot and Lower Extremity Course, Foot Mgt, Inc in Ocean City, MD in October, 1994.
174. **McClay, IS** "Closed Kinetic Chain Activities for the Foot and Ankle". Presented at the Management of the Foot and Lower Extremity Course, Foot Mgt, Inc in Ocean City, MD in October, 1994.
175. **McClay, IS** "Research in Foot and Ankle Biomechanics". Presented at the Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, February, 1994.
176. **McClay, IS** "Biomechanical Assessment of Gait". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1993.
177. **McClay, IS** "Closed Kinetic Chain Activities for the Foot and Ankle". Presented at the Foot and Ankle Seminar for HealthSouth in Orlando, FL, February, 1993.
178. **McClay, IS** "Closed Kinetic Chain Activities for the Foot and Ankle". Presented at the Foot and Ankle Seminar for HealthSouth in Phoenix, AZ, March, 1993.
179. **McClay, IS** "Closed Kinetic Chain Activities for the Foot and Ankle". Presented at the Foot and Ankle Seminar for HealthSouth in St. Louis, MO, April, 1993.
180. **McClay, IS** "Normal Structure and Gait". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1992.
181. **McClay, IS** "Normal Structure and Gait". Presented at the Symposium on the Biomechanics of the Lower Extremity, NATA, Denver, CO, February, 1992.
182. **McClay, IS** "Abnormal Structure and Gait". Presented at the Symposium on the Biomechanics of the Lower Extremity, NATA, Denver, CO, February, 1992
183. **McClay, IS** "Abnormal Structure and Gait". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1992.
184. **McClay, IS** "The Biomechanical Evaluation of the Injured Runner". Presented at the Medical Symposium of the Penn Relays, April, 1992,
185. **McClay, IS** "Biomechanics of the Foot and Ankle". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1991.
186. **McClay, IS** "Relationship between Mechanics and Running Injuries". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1991.
187. **McClay, IS** "Anatomy and Biomechanics of the Patellofemoral Joint". Presented at the Sports Physical Therapy Meeting, Orlando, Fla. December, 1990.
188. **McClay, IS** "Relationship between Structure and Function in Patellofemoral Disorders". Presented at the Sports Physical Therapy Meeting, Orlando, Fla. December, 1990.
189. **McClay, IS** "Normal and Abnormal Running Mechanics". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va. June, 1990.
190. **McClay, IS** "Biomechanical Perspective of Stress Fractures in Professional Basketball Players". Presented at the Annual Meeting of the NBA Physicians, West Palm Beach, Fl, November, 1988.
191. **McClay, IS** "The Biomechanics of Patellofemoral Disorders". Presented at the Arts and Science of Sports Medicine Conference, Charlottesville, Va., June, 1988.
192. **McClay, IS** "Biomechanical Profile of Elite Woman Distance Runners". Presented at the Dogwood Festival Pre-race Conference, Atlanta, GA, July, 1988.

**International**

1. **Davis, IS.** "Movement Matters: Retraining for Patellofemoral Pain. Presented at the Canadian Bone and Joint Meeting, Ontario, CA, April 2022.
2. **Davis, IS.** "Minimal Footwear for all Ages". Invited speaker for the Canadian Podiatric Medical Association Virtual Meeting, November, 2021.
3. **Davis, IS.** Gait Retraining for Abnormal Foot and Ankle Biomechanics'. Presented virtually at the International Foot and Ankle Biomechanics Meeting, Sao Paolo, Brazil, April 2021.
4. **Davis, IS.** 'The Foot Core: Let's Think Differently about the Foot'. Presented virtually at the International Foot and Ankle Biomechanics Meeting, Sao Paolo, Brazil, April 2021.
5. **Davis, IS.** 'The Foot Core: Let's Think Differently about the Foot'. Keynote presentation - virtually at the International Foot and Ankle Biomechanics Meeting, Sao Paolo, Brazil, April 2021.
6. **Davis, IS.** 'Integrating Science into the Treatment of Runners'. Presented virtually at the German Sports Medicine Meeting, Hamburg, Germany, April, 2021.
7. **Davis, IS** 'The Achilles Tendon and Plantar Fascia: One Functional Unit'. Presented virtually at the Connect 2021 Conference, Munich, Germany, March, 2021.
8. **Davis, IS** 'The Benefits of Minimal Footwear in Adult Walking and Running' Presented virtually in the international webinar "The Barefoot Movement Conference', hosted by Vivobarefoot, March, 2021.
9. **Davis, IS "**The Foot Core: Thinking Differently about the Foot." Presented Virtually at the Good Runner Course at the Love Trails Seminar, United Kingdom, Mar, 2021.
10. **Davis, IS** "The Foot Core: Thinking Differently about the Foot." Presented virtually at the international seminar hosted by Nexus Motion, Osaka, Sapporo, Tokyo, Japan, Feb, 2021.
11. **Davis, IS** "How Loading and Alignment Contribute to Running Injuries". Presented virtually in the international webinar "The Evolution of Running and the Risk of Injuries" Hosted by the World Athletics Organization and the International Institute for Race Medicine, Jan, 2021
12. **Davis, IS "**The Foot Core: Thinking Differently about the Foot". Presented Virtually at the Good Runner Course at the Love Trails Festival, United Kingdom, July, 2020
13. **Davis, IS** "Distal Factors associated with Patellofemoral Pain". 6th International Patellofemoral Research Retreat-Clinical Day, Milwaukee, MI, Oct 2019
14. **Davis, IS** "Evaluation of a Runner with Patellofemoral Pain". 6th International Patellofemoral Research Retreat - Clinical Day, Milwaukee, MI, Oct 2019
15. **Davis, IS** "Consensus on Movement Retraining for Patellofemoral Pain" 6th International Patellofemoral Research Retreat, Milwaukee, MI, Oct 2019
16. **Davis, IS** "Why Movement Matters: Application to Treating Overuse Injuries" Borelli Award Lecture. American/International Society of Biomechanics Mtg, Calgary Alberta, August 2019
17. **Davis, IS** "Integrating Science into the Treatment of Runners". Keynote Presented at the Brazilian Biomechanics Mtg, Manaus, Brazil, May, 2019.
18. **Davis, IS** "Integrating Science into the Treatment of Runners". Keynote Presented at the Canadian Society of Biomechanics Mtg, Halifax, Nova Scotia, Aug 2018.
19. **Davis, IS** “Treating Patellofemoral Pain in Runners: Movement Matters”. Keynote at the International Patellofemoral Research Retreat Clinical Day, Brisbane, Australia, July 2017.
20. **Davis, IS.** "The Foot Core: A New Paradigm". Keynote Presentation at the International Society for Electromyography and Kinesiology Mtg. Chicago, IL, July, 2016.
21. **Davis, IS.** "The Foot Core". Presented at the Lower Extremity Biomechanics Course, Kingston, Ontario Oct, 2015
22. **Davis, IS.** “Benefits of Barefoot Running”, Barefoot Running Panel, International Running Symposium, Calgary, Canada, Aug, 2014
23. **Davis, IS.** “Benefits and Pitfalls of Barefoot Running”. Keynote Presentation at the Sports Medicine Conference, Hong Kong Polytechnical University, Hong Kong, China, November, 2013.
24. **Davis, IS.** “Benefits and Pitfalls of Barefoot Running”. Keynote Presentation at the 1st International Patellofemoral Clinical Symposium, Vancouver, British Columbia, September, 2013.
25. **Davis, IS.** “Alignment and Loading: Global Indicators of Patellofemoral Pain”. Keynote Presentation at the 3rd International Patellofemoral Research Retreat, Vancouver, British Columbia, September, 2013.
26. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote Lecture at the San Paolo Sports Medicine Conference, San Paolo, Brazil, November, 2012.
27. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote lecture presented at the International Foot and Ankle Symposium, Lexington, KY, October, 2012.
28. **Davis, IS**. “Gait Retraining: Altering the Footprint of Gait”. Keynote presented to the IFOMPT Mtg, Rome, Italy, November, 2011.
29. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented to the IFOMPT Mtg, Rome, Italy, November, 2011.
30. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented at the Olympic Park Center, Melbourne, Australia, April, 2011.
31. **Davis, IS**. “Evaluation of the Injured Runner”. Presented at the Australasian Podiatry Conference, Melbourne, Australia, April, 2011.
32. **Davis, IS**. “Gait Retraining: Altering the Fingerprint of Gait ”. Presented at the Australasian Podiatry Conference, Melbourne, Australia, April, 2011.
33. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Keynote presented at the Australasian Podiatry Conference, Melbourne, Australia, April, 2011
34. **Davis, IS**. “Barefoot Running: Treading Softly to Good Health”. Presented at the Foot and Lower Extremity Conference, London, Ontario, Canada, May, 2010.
35. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait." Presented at the Prescription Foot Orthotic Laboratory Association Biomechanics Meeting, Vancouver, British Columbia, October, 2008.
36. **Davis, IS**, Fellin, RA and Willy. R "Is Treadmill Running a Good Representation of Overground Running. Presented at the Prescription Foot Orthotic Laboratory Association Biomechanics Meeting, Vancouver, British Columbia, October, 2008.
37. **Davis, IS** and Buchanan, K. "Relationship between Forefoot position and Static Midfoot and Rearfoot Position: Testing Root Theory Presented at the Prescription Foot Orthotic Laboratory Association Biomechanics Meeting, Vancouver, British Columbia, October, 2008.
38. **Davis, IS** and Buchanan, K. "Relationship between Forefoot position and Dynamic Midfoot and Rearfoot Mechanics: Testing Root Theory Presented at the Prescription Foot Orthotic Laboratory Association Biomechanics Meeting, Vancouver, British Columbia, October, 2008.
39. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait. Presented at the Instituti Ortopedici Rizzoli, Bologna, Italy, June, 2008.
40. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait. Presented at the Instituto Universitario di Scienze Motorie, Rome, Italy, June, 2008.
41. **Davis, IS** “The Dreaded Stress Fracture: Relationship to Mechanics”. Presented at the Prescription Foot Orthotic Labs Association Meeting, Vancouver, Canada, November 2005.
42. **Davis, IS** “The Effect of Wedged Orthoses on Lower Extremity Mechanics and Function in Patients with Knee OA”. Presented at the Prescription Foot Orthotic Labs Association Meeting, Vancouver, Canada, November 2005.
43. **Davis, IS** “Running Right: Relationships between Mechanics and Injury”. Keynote presented at the Sports Medicine Australia Meeting, Melbourne, Australia, October, 2005.
44. **Davis, IS** “The Relationship between Core Stability and Lower Extremity Function and Injury”. Presented at the Sports Medicine Australia Meeting, Melbourne, Australia, October, 2005.
45. **Davis, IS**. "Is there a Right Way to Run: Relationships between Mechanics and Injury". Keynote presentation at the UK Sports Medicine Meeting, Nottingham, England, April 2005.
46. **Davis, IS**. “Case Studies in the Injured Runner”. Keynote presentation at the UK Sports Medicine Meeting, Nottingham, England, April 2005.
47. **Davis, IS**. “Stress Fractures: Study of Relationship between Mechanics and Injury”. Presentation given at the Australian Institute for Sport, Canberra, Australia, February 2005.
48. **Davis, IS**. “Foot Structure, Mechanics and Injury Risk”. Keynote Presentation at the 2nd International Foot and Ankle Symposium, Newark, DE, October 2004.
49. Ireland, ML, **Davis, IS**, and Willson, J “The influence of lumbopelvic strength on lower extremity performance.” Presented at the International ACL Study Group Mtg, Sardinia, Italy, June, 2004.
50. **Davis, IS** “Is there a right way to run? Relationships between mechanics and injury”. Presented at the National Congress of Sports Medicine in Stavanger, Norway, November, 2003.
51. **Davis, IS** “The Effect of the Inverted Orthotic on Lower Extremity Mechanics in Patients with Patellofemoral Joint Pain”. Presented at the Prescription Foot Orthotic Laboratory of America (PFOLA) Mtg, Montreal, Canada, October 2002.
52. **McClay, IS** “Lower Extremity Mechanics and Injury Patterns in High and Low Arch Runners”. Keynote lecture presented at the Foot and Ankle Research Retreat, Annapolis, MD, May, 2000.
53. **McClay, IS** “Effect of the Inverted Orthotic on Rearfoot and Knee Mechanics”. Presented at the PFOLA meeting in Vancouver, BC, November 2000.
54. **McClay, IS** “Injury Mechanisms in Runners”. Keynote speaker at the Fifth IOC Congress on Sport Sciences, Sydney, Australia, November, 1999
55. **McClay, IS** “Clinical Gait Analysis”. Keynote speaker at the Fifth IOC Congress on Sport Sciences, Sydney, Australia, November, 1999.

Scientific Symposium

1. **Davis, IS,** "Resuming our Natural Footstrike Pattern to Reduce Running Injuries". In Symposium titled: An Evolutionary Approach to the Treatment of Running Injuries. American College of Sports Medicine Meeting, San Diego, CA, June, 2022.
2. **Davis, IS,** "Where are We Now and How Did We Get There?". In Symposium titled: Make America Fit Again: A Call to Arms'. American College of Sports Medicine Meeting, Virtual Meeting, June, 2021.
3. **Davis, IS,** "Monitoring Impacts during a Marathon". In Symposium titled: Training Load Monitoring of Distance Runners: New Thoughts on an Old Problem'. American College of Sports Medicine Meeting, Virtual Meeting, June, 2021.
4. **Davis, IS,** "Integrating Motor Learning Principles into Clinical Practice: Retraining Movement" in 'Biomechanics Matters 2.0:The Foundation for Changing Movement.' Combined Section of the American Physical Therapy Association, Virtual Meeting, Feb, 2021.
5. **Davis, IS** "Addressing the Biomechanics of Hamstring Injuries in Runners through Gait Retraining" in 'Advances in Treatment and Prevention of Hamstring Injuries. American Association of Physical Medicine and Rehabilitation Mtg, San Antonio, TX, Nov, 2019.
6. **Davis, IS** "Measuring Impacts in the Wild: Lessons from a Marathon Race" in 'In the Wild' Applications of Wearable Tech for Sport: Opportunities and Obstacles. American/International Society of Biomechanics Mtg, Calgary, Alberta, Aug, 2019.
7. **Davis, IS, "**Jean Landa Pytel: What she passed on to me". in 'Jean Landa Pytel Mentoring Symposium'. American/International Society of Biomechanics Mtg, Calgary, Alberta, Aug, 2019.
8. **Davis, IS,** "External Running Mechanics: What they do and do not tell us about injury". In Symposium titled: 'Can Biomechanical Models Improve Injury Prevention and Human Performance?' American College of Sports Medicine Meeting, Orlando, FL, May, 2019
9. **Davis, IS,** "Does Movement Matter in Bone Stress Injuries in Runners". In Feature Highlighted Symposium titled: 'Make No Bones about it: Bone Loading in Relation to Bone Stress Injuries' American College of Sports Medicine Meeting, Orlando, FL, May, 2019.
10. **Davis, IS** "Perspectives from Funded Researchers" in Funding symposium at the Combined Section of the American Physical Therapy Association, Washington, DC, Jan 2019.
11. **Davis, IS** "The Relevance of Forces in Running. in "**'**Biomechanics Matters' Symposium at the Combined Section of the American Physical Therapy Association, Washington, DC, Jan 2019.
12. **Davis, IS** "The Foot Core Paradigm:Thinking Differently". in 'A Foot Core Approach to Curing Foot Pathologies' Symposium at the Combined Section of the American Physical Therapy Association, Washington, DC, Jan 2019.
13. **Davis, IS** "Application of Motor Skill Training in Runners with Patellofemoral Pain". in 'Motor Skill Training in Musculoskeletal Conditions' Symposium at the Combined Section of the American Physical Therapy Association, Washington, DC, Jan 2019.
14. **Davis, IS** and Vincent, K. Foot Core: The Importance of Foot Intrinsic Muscle Strength for Runners. Tutorial presented at the American College of Sports Medicine Meeting, Minneapolis, MN, May, 2018.
15. **Davis, IS** and Jamison, ST. “The Benefits and Pitfalls of Wearable Sensors in Running”. Tutorial presented at the American College of Sports Medicine Meeting, Minneapolis, MN, May, 2018.
16. **Davis, IS**, “The Influence of Minimal Footwear on Running Mechanics” in Symposium titled: Minimal Footwear: Is Less More? Presented at the International Foot and Ankle Symposium, New York, NY, April 2018.
17. **Davis, IS,** "An Unconventional Approach to Plantar Fasciitis and Achilles Tendinitis in Runners". In Symposium titled: Updates on Achilles Tendon and Plantar Fascia Injuries in Athletes. American College of Sports Medicine Meeting, Denver, CO, May, 2017
18. **Davis, IS,** "An Unconventional Approach to Plantar Fasciitis and Achilles Tendinitis in Runners". In Symposium titled: Updates on Achilles Tendon and Plantar Fascia Injuries in Athletes. American College of Sports Medicine Meeting, Denver, CO, May, 2017.
19. **Davis, IS,** "Role of the Physical Therapist in Exercise is Medicine". In Symposium titled: Clinical Exercise Physiologists and Physical Therapists:Teammates in an Evolving US Public/Community Health Paradigm. American College of Sports Medicine Meeting, Denver, CO, May, 2017.
20. **Davis, IS.** "Gait Retraining through the use of Realtime Feedback". In Symposium/workshop titled: Movement Matters: Translating Science into Practice for the Treatment and Prevention of Patellofemoral Pain and ACL Injuries. American Association of Physiatry Mtg, Las Vegas, NV, Feb 2017.
21. **Davis, IS.** "Common Biomechanical Risk Factors in ACL, PFP". In Symposium titled "Influence of biomechanics, biology, and anatomy on musculoskeletal injury" American Association of Physiatry Mtg, Las Vegas, NV, Feb 2017.
22. **Davis, IS.** "Forefoot striking: As Fundamental to Running as Rearfoot Striking is to Walking. In Symposium titled: "Science meets Practice: The Great Footstrike Debate. APTA Combined Sections Mtg, San Antonio, TX, Feb 2017.
23. **Davis, IS.** " To Cushion or not to Cushion: Minimal and Maximal Footwear in Running" in Symposium titled "Minimal Footwear: Not Just for Running'. APTA Combined Sections Mtg, San Antonio, TX, Feb 2017.
24. **Davis, IS.** "Integrating EIM into Physical Therapy Practice. Presented in Symposium titled "Exercise is Medicine 101:Development of the Initiative and its Implementation in Health Systems". APTA Combined Sections Mtg, San Antonio, TX, Feb 2017.
25. **Davis, IS.** " Principles of Gait Retraining". Presented in Symposium/Workshop "Effective assessment and biomechanical retraining for running injuries". American Academy of Physical Medicine and Rehabilitation, New Orleans, LA, October, 2016.
26. **Davis, IS.** "Youth Running: Don't Run Your Kids into the Ground" Panel Discussant. American Academy of Physical Medicine and Rehabilitation, New Orleans, LA, October, 2016.
27. **Davis, IS.** "Treatment of a Runner with Patellofemoral Pain: Using a Distal Approach" Presented in Debate on "Proximal vs. Distal Approach to the Treatment of Patellofemoral Pain" American Academy of Physical Medicine and Rehabilitation, New Orleans, LA, October, 2016.
28. **Davis, IS** "To Cushion or not to Cushion: Minimal and Maximal Footwear in Running". Presented in Symposium "Minimal Footwear: It's not Just for Running. American Society of Biomechanics Mtg, Raleigh, NC, Aug, 2016
29. **Davis, IS.** "Cutting Edge Updates in Paralympic Sports Medicine and Science". Closing Remarks.American College of Sports Medicine Meeting, Boston, MA, May, 2016.
30. **Davis, IS.** "Use of Innovative Technologies and Novel Approaches for the Prevention and Management of Sport Concussion". Session Organizer and Chair. American College of Sports Medicine Meeting, Boston, MA, May, 2016.
31. **Davis, IS.** "Addressing Biomechanical Risk Factors for Bone Stress Injuries". Presented in the Symposium titled 'Biomechanical and Biological Contributors to Bone Stress Injuries in Runners'. American College of Sports Medicine Meeting, Boston, MA, May, 2016.
32. **Davis, IS.** "Re-emergence of the Minimal Shoe" Presented in the Symposium titled "Minimal Footwear Running – What does the Evidence tell us?" American College of Sports Medicine Meeting, Boston, MA, May, 2016.
33. **Davis, IS. "**Gait Retraining to Reduce Injury Risk in Runners" Presented at the Motor Control Symposium at American College of Sports Medicine Meeting, Boston, MA, May, 2016.
34. **Davis, IS.** “A Career Path: From Get Smart…..to Getting Smarter. Presented in the ASB Fellows Symposium, American Society of Biomechanics Meeting, Columbus, OH, Aug 2015.
35. **Davis, IS. “**Reducing Injury Risk with Soft, Well-Aligned Landings” Presented in Symposium titled ‘Running Medicine 2015: Translating the Science into Practice. American College of Sports Medicine Mtg, San Diego, CA, May 2015.
36. **Davis, IS.** “Introduction to the Foot Core Concept”. Presented in Symposium titled ‘Core stability of the foot: A new paradigm’. American College of Sports Medicine Mtg, San Diego, CA, May 2015.
37. **Davis, IS**. Organized and moderated the Feature Science Session titled: “Translating Biomechancis into Practice”. American College of Sports Medicine Mtg, San Diego, CA, May 2015.
38. **Davis, IS.** “Retraining Impacts and Alignment in Runners”. Presented in Symposium titled: Gait Retraining for Injured Runners: in Search of the Ideal. Combined Section of the APTA, Indianapolis, IN, Feb, 2015.
39. Jamison, ST, Ruder, MC, Rainbow, MJ and **Davis, IS.** The influence of footwear on vertical and anteroposterior ground reaction impulses. Presented at the 3rd International Conference on Soldier Physical Performance, Boston, MA, Aug 2014.
40. **Davis, IS.** Organized and Moderated Symposium Titled: “Minimal Footwear: A Return to Basics”. Presented talk titled: ‘Re-emergence of the Minimal Shoe’. 3rd International Conference on Soldier Physical Performance. Boston, MA, Aug. 2014.
41. **Davis, IS** and Rodgers, MM. Organized and moderated the “ASB Symposium on Rehabilitation and Technology”. 7th World Congress of Biomechanics, Boston, MA, July, 2014
42. **Davis, IS. “**Gait Retraining of Faulty Mechanics in Runners”. Presented in the ASB Symposium on Rehabilitation and Technology”. 7th World Congress of Biomechanics, Boston, MA, July, 2014
43. **Davis, IS. “**Landing Softly in Minimal Shoes to Reduce Injury Risk” Presented in the ‘Symposium on Gait Modifications”. 7th World Congress of Biomechanics, Boston, MA, July, 2014
44. Noehren, BM and **Davis, IS**. “Summary of the Consensus Statement of the 3rd International Patellofemoral Pain Research Retreat” Presented in the ‘Symposium on the Patellofemoral Joint”. 7th World Congress of Biomechanics, Boston, MA, July, 2014.
45. Rainbow, MJ and **Davis, IS**. “Reduction in Forces in Barefoot Running”. Presented in the “Footwear Symposium”. 7th World Congress of Biomechanics, Boston, MA, July, 2014.
46. **Davis, IS**. Organized and moderated the Feature Science Session titled: “Mobile Monitoring: Taking our Biomechanical Measures Outside the Lab”. American College of Sports Medicine Mtg, Orlando, FL, May 2014.
47. **Davis, IS** and Morrison, R. “Proper Transitioning to Barefoot and Minimal Footwear Running”. Symposium presented at the Combined Section of the American Physical Therapy Association Meeting, Las Vegas, NV, Feb 2014.
48. **Davis, IS.** “Gait Retraining through the use of Realtime Feedback: The Importance of Practice-An Orthopedic Perspective. Presented in the Eugene Michels Forum at the Combined Section of the American Physical Therapy Association Meeting, Las Vegas, NV, Feb 2014.
49. **Davis, IS**. Noehren, BM, Powers, CM and Bolgla, L. Symposium on the Consensus Statement of the 3rd International Patellofemoral Pain Research Retreat. Presented in the Eugene Michels Forum at the Combined Section of the American Physical Therapy Association Meeting, Las Vegas, NV, Feb 2014.
50. **Davis, IS**. Organized and moderated the Feature Science Session titled: “Using Musculoskeletal Models to Solve Sports Related Problems”. American College of Sports Medicine Mtg, Indianapolis, IN, May 2013.
51. **Davis, IS**. “Current Evidence in Running Biomechanics: Focus on the Ankle and Foot” Presented in the “Staying On the Right Track: Current Concepts in the Care and Prevention of Running Injuries of the Foot and Ankle” symposium, Combined Section Meeting of the APTA, San Diego, CA, January, 2013.
52. **Davis, IS**. “Can you Really Change Gait Patterns?” Presented in the “Gait Retraining: Taking the Next Step Forward in Rehabilitation” symposium, Combined Section Meeting of the APTA, San Diego, CA, January, 2013.
53. **Davis, IS**. “Shifting Paradigms regarding Footwear, Footstrikes and Treatment of the Foot”. Presented in the “Barefoot Running Symposium”, American Academy of Physical Medicine and Rehabilitation Meeting, Atlanta, GA, November, 2012.
54. **Davis, IS**. “A Biomechanical Approach to Knee OA”. Presented in the ‘Knee OA Symposium’, American Academy of Physical Medicine and Rehabilitation Meeting, Atlanta, GA, November, 2012.
55. **Davis, IS**. “Evaluation of the Injured Runner”. Symposium presented at the American Academy of Physical Medicine and Rehabilitation Meeting, Atlanta, GA, November, 2012
56. **Davis, IS** “The Role of the Physical Therapist in the ‘Exercise is Medicine’ initiative”. Presented in the Symposium "The Role of the Allied Health Professional in ‘Exercise is Medicine’", American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
57. **Davis, IS** “Gait Retraining to Reduce Musculoskeletal Injuries”. Presented in the Symposium "A Neuromuscular Approach to Injury:Altering Movement Patterns", American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
58. **Davis, IS** “Barefoot Running Debate”. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
59. **Davis, IS** "Treading Softly to Better Health: The Science of Footstrikes". Presented in the Symposium "Barefoot Running: So Easy a Caveman did it", American College of Sports Medicine Mtg, Denver, CO, June, 2011.
60. **Davis, IS** "The Incidence and Impact of Knee Osteoarthritis on the Active Adult: A Biomechanical Approach for the Development and Implementatation of Interventions". Presented in the Symposium "A Biomechanical Approach to Restoring Function in Knee Osteoarthritis:Incorporating Evidence into Clinical Practice", Combined Section Meeting of the APTA, New Orleans, LA, February, 2011 (requested repeat of prev yr).
61. **Davis, IS** "Treading Softly to Better Health: The Science of Footstrikes". Presented in the Symposium "Barefoot Running: So Easy a Caveman did it", Combined Section Meeting of the APTA, New Orleans, LA, February, 2011.
62. **Davis, IS** "Distal Factors in Running Injuries". Presented in the Symposium "Proximal and Distal Factors in Running Injuries", Combined Section Meeting of the APTA, New Orleans, LA, February, 2011.
63. **Davis, IS** "Running Mechanics and Injury in Normal Adults". Presented in the Symposium "Running for Children with Cerebral Palsy", Combined Section Meeting of the APTA, New Orleans, LA, February, 2011.
64. **Davis, IS** " The Role of the Hip in Iliotibial Band (ITB) Injuries in the Female Athlete". Presented in the Symposium "Lower Extremity Injuries in the Female Athlete", Combined Section Meeting of the APTA, Nashville, TN, February, 2010.
65. **Davis, IS** "The Incidence and Impact of Knee Osteoarthritis on the Active Adult: A Biomechanical Approach for the Development and Implementatation of Interventions". Presented in the Symposium "A Biomechanical Approach to Restoring Function in Knee Osteoarthritis:Incorporating Evidence into Clinical Practice", Combined Section Meeting of the APTA, Nashville, TN, February, 2010.
66. **Davis, IS** "A Biomechanical Approach to the Evaluation and Treatment of Tibial Stress Fractures". Presented in the Symposium "Evidenced-based Prevention and Treatment of Lower Extremity Stress Fractures", Combined Section Meeting of the APTA, Nashville, TN, February, 2008.
67. **Davis, IS** "Gait Retraining through the use of Realtime Feedback: Altering the Fingerprint of Gait. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
68. **Davis, IS** "Realtime Feedback: Intervention for Gait Retraining". Presented in the Symposium "Motion Analysis: From Research Laboratory to Clinical Practice, Combined Section Meeting of the APTA, Nashville, TN, February, 2008.
69. **Davis, IS** "The Use of Realtime Feedback for Gait Retraining in Runners." Presented at the Symposium on “Biomechanics in Rehabilitation”, World Congress of Biomechancis, Munich, Germany, August, 2006.
70. **Davis, IS** "Stress Fractures and Loading: The Tipping Point". Presented at the Symposium on “Stress Fractures”, American College of Sports Medicine Meeting, Denver, CO, June, 2006.
71. **Davis, IS** “The Role of Hip Control in Lower Extremity Mechanics and Injury”. Presented at the “Biomechanics of Lower Extremity Injuries”, American College of Sports Medicine Meeting, Nashville, TN, May, 2005.
72. **Davis, IS**. "Influence of Foot Biomechanics on Overuse Injuries of the Knee". Presented in the "Mechanisms of Knee Injuries: Implications for Prevention and Rehabilitation" Symposium. Combined Sections Mtg of the APTA, Nashville, TN, February, 2004.
73. **McClay, IS** “Risk Factors in Anterior Cruciate Ligament Injuries”. Clinical Colloquium presented at the National ACSM Mtg, in Seattle, WA, June, 1999.
74. **McClay, IS** “Problem Solving the Injured Runner”. Clinical Colloquium presented at the National ACSM Mtg, in Seattle, WA, June, 1999.
75. **McClay, IS** "Selected Case Studies in Running Injuries". Presented in the “Running Injuries” Symposia at the Combined Sections Meeting of the APTA, San Antonio, TX, Feb, 2001.

Podium and Poster Presentations

1. Johnson, CD, Outerleys, J, and **Davis, IS**. Accuracy of an open-source, marker-less motion capture platform for the measurement of 2-dimensional segment angles during running. American College of Sports Medicine Virtual Meeting, May 2021.
2. Outerleys, J, Tenforde, AS, Bouxsein, M, Bredella, M, Besier, T and **Davis, IS**. Prevalence of metatarsal bone marrow edema on MRI and injury in male collegiate basketball players. American College of Sports Medicine Virtual Meeting, May 2021.
3. Hunter, JG, Miller, RH and **Davis, IS.** Novice runners maintain cumulative loads during steady-state running. American Society of Biomechanics Meeting (2020 Virtual meeting due to COVID).
4. Murdock, KE, Tenforde, AT, **Davis, IS** and Troy, KL**.** Bone architecture and foot muscle strength are not different in healthy male versus female runners. American Society of Biomechanics Meeting (2020 Virtual meeting due to COVID).
5. Johnson, CD, Outerleys, JB, Tenforde, AT and **Davis, IS.** A comparison of attachment methods of skin mounted inertial measurement units on tibial acceleration. American Society of Biomechanics Meeting (2020 Virtual meeting due to COVID).
6. Burland, JP, Outerleys, JB, Lattermann, C and **Davis, IS.** Reliability of wearable sensors to assess Impact metrics during sport specific movement tasks. American Society of Biomechanics Meeting (2020 Virtual meeting due to COVID).
7. Buchanan, K **Davis, IS,** Finnegan, DA, Faharty, BI, Lamb, JG, Michaud, EM and Raksnis, BJM.Differences in mechanics between first and second drop vertical jump Landings. American College of Sports Medicine Meeting, (2020 Virtual meeting due to COVID).
8. Johnson, C, Tenforde, AS, Outerleys, J, **Davis, IS.** The association of ground reaction forces with the five most common running injuries. American College of Sports Medicine Meeting, (2020 Virtual meeting due to COVID).
9. Wasserman, L and **Davis, IS.** Inclusion of Wearable Sensors in the Treatment of Patellofemoral Pain. American College of Sports Medicine Meeting, (2020 Virtual meeting due to COVID).
10. Johnson, C, Tenforde, AS, Outerleys, J, Reilly, JM, **Davis, IS.** Association of ground reaction force load rates with the development of plantar fasciitis in runners. International Society of Biomechanics Meeting, Calgary, Alberta, Aug, 2019.
11. Mahoney, JM, Rhudy, M, Outerleys, J, **Davis, IS**, Altman-Singles, AR. Footstrike pattern recognition using machine learning on tibial acceleration. International Society of Biomechanics Meeting, Calgary, Alberta, Aug, 2019.
12. Matias, A, Outerleys, J. Sacco, I, Davis I. Habitual running in minimal or partial minimal shoes compared to barefoot running. International Society of Biomechanics Meeting, Calgary, Alberta, Aug, 2019.
13. Matias, A, Outerleys, J, Johnson, C, Sacco, I, **Davis, I**. Correlations between arch height differences in minimal shoes and impact loading. Footwear Biomechanics Symposium, Kananaskis, Alberta, Aug, 2019.
14. Outerleys, J, Matias, A, Johnson, C, **Davis, I.** Barefoot, Minimal and Traditional Shod Walking in Habitual Runners. Footwear Biomechanics Symposium, Kananaskis, Alberta, Aug, 2019
15. Fokkema,T, Outerleys, J, Matias, A, Clansey, A, **Davis, IS.** Foot kinematic differences between forefoot strikers in minimal and conventional shoes. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
16. Heindel, M, Buchannan, **Davis, IS.** Barefoot rehabilitation of arch pain in a veteran. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
17. Johnson, CD, Outerleys, J, Reilly, JM, Tenforde, AB, **Davis, IS.** Increased ground reacion forcce load rates in runners with active patellofemoral pain. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
18. Matias, A, Outerleys, J, Sacco, I, **Davis, I.** Not all forefoot striking is equal. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
19. Outerleys, JB, Popp, KL, Rudolph, SEG, Caksa, S, Ackerman,KE, Bouxsein, ML, **Davis, IS**. Impact mechanics in female runners with single and multiple stress fractures following fatigue. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
20. Taddei, UT, Ribeiro, FIA, **Davis, IS**, Sacco, ICN. The effect of a foot exercise protocol on intrinsic muscle volume. American College of Sports Medicine Meeting, Orlando, FL May, 2019.
21. Wasserman, L, **Davis, IS.** A case for running without toes! American College of Sports Medicine Meeting, Orlando, FL May, 2019.
22. Cheung, RTH, Zhang, JHW, Chan, ZYS, Au, IPH, An, WW, **Davis IS.** Running retraining using shoe-mounted sensor may provide false impact loading reduction. Best Paper Award at the 21st International Conference on Mechanics in Medicine and Biology, Taipei, Taiwan, Nov, 2018.
23. Ridge, ST, Olsen, MT, Breunig, DA, Jurgensmeier, K, Griffin, D, **Davis, IS**, Johnson, W. A Comparison of foot strengthening versus minimal footwear use on intrinsic muscle size and strength, AOFAS Annual Boston, Massachusetts, July 2018.
24. Ridge, ST, Henderson, AD, Breunig, DA, Jurgensmeier, K, Olsen, M, Griffin, D, Johnson, W and **Davis, IS**, Johnson, W. A Comparison of foot strengthening versus minimal footwear use on intrinsic muscle size and strength, AOFAS Annual Boston, Massachusetts, July 2018.
25. Futrell, E and **Davis, IS**. Forefoot striking is more effective in reducing loadrates than increasing cadence in runners. AOFAS Annual Boston, Massachusetts, July 2018.
26. **Davis, IS**, Ruder, MC, Tenforde, AT, Jamison, ST and Mulloy, F. Midfoot strikers are different from forefoot strikers, but similar to rearfoot strikers: Lessons from a marathon, OFAS Annual Boston, Massachusetts, July 2018.
27. Tenforde AS, Donaghe-Borgstrom HE, **Davis I**. The Relationship between Footstrike Angles and Loading Rate via 2D Video Analysis in Runners. 2018 AOFAS Annual Boston, Massachusetts, July 2018.
28. Hayano T, Tenforde AS, **Davis I**. The Relationship Between Vertical Loadrates and Tibial Acceleration Across Footstrike Patterns. 2018 AOFAS Annual Boston, Massachusetts, July 2018.
29. Fu, W, Reilly, J, Tenforde, AS, Jamison, S, Ruder, M, **Davis, IS**. A comparison of ground reaction forces and sagittal plane ankle kinematics between runners with Achilles tendinopathy and healthy controls. Presented at the ACSM Annual Meeting, Minneapolis, MN, May, 2018.
30. Hayano, T, Tenforde, AS, Jamison, ST, **Davis, IS**. Relationship between tibial acceleration and vertical load rates in runners of all footstrike patterns. Presented at the ACSM Annual Meeting, Minneapolis, MN, May, 2018.
31. Borgstrom, HE, Tenforde, AS, Diaz, R, Jamison, ST, **Davis, IS**. Increased foot and tibial angles at footstrike decrease vertical loadrates in runners. Presented at the ACSM Annual Meeting, Minneapolis, MN, May, 2018
32. Wearing, SC, **Davis, IS**, Hooper, SL, Horstmann, T, Brauner, T. Do achilles tendon properties differ with habitual footstrike running patterns. Presented at the International Foot and Ankle Symposium, New York, NY, April, 2018.
33. Futrell, E, Gross, D, Reisman, D and **Davis, I**. Short and long term effects of forefoot strike and increased cadence gait retraining methods on impact loads in runners.  Presented at the APTA Combined Sections Meeting, New Orleans, LA, Feb, 2018
34. Hayano T, **Tenforde AS**, Jamison S, Davis I. Correlation between tibial acceleration and loadrate in runners. NEACSM Meeting, Providence, RI, October 2017.
35. Donaghe-Borgstrom HE, **Tenforde AS**, Jamison ST, Davis IS. The Relationship between Footstrike Angles and Loading Rate via 2D Video Analysis in Runners. NEACSM Meeting, Providence, RI, October 2017
36. Ruder, MC, Jamison, ST, Tenforde, AS, **Davis, IS.** Changes in mechanics across a marathon. Presented at the ASB Annual Meeting, Boulder, CO, August, 2017.
37. Jamison, ST, Ruder, MC, Tenforde, AS, **Davis, IS.** Tibial shock running over-ground and on a treadmill: Are they the same? Presented at the ASB Annual Meeting, Boulder, CO, August, 2017.
38. Jamison, ST, Ruder, MC, Tenforde, AS, Hannan, MT, **Davis, IS.** The Effect of Speed, Incline, and Distance on Impacts during a Marathon Road Race. Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
39. Troilo, L, **Davis, I.** Chronic plantar fasciitis: From disability to running! Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
40. Buchanan, KR, Keafer, CA, Newell, AE, Wells, KM, **Davis, IS**. Sex Differences in Perceived Achievement after an ACL Injury Prevention and Yoga Program. Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
41. Buchanan, KR, Keafer, CA, Newell, AE, Wells, KM, **Davis, IS**. Sex Differences in Perceived Achievement after an ACL Injury Prevention and Yoga Program. Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
42. Futrell, E, Gross, D, Reisman, D and **Davis, I.** A Comparison of the Effect of Forefoot Striking and Cadence on Vertical Loadrates. Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
43. Ruder, MC, Jamison, ST, Tenforde, AS, Hannan, MT, **Davis, IS**. Relationship of footstrike pattern and landing impacts during a marathon race. Presented at the ACSM Annual Meeting, Denver, CO, May, 2017.
44. Diaz R, **Tenforde AS**, Singh P, Davis IS. The relationship between foot and leg orientation at footstrike and loadrates in runners. AAP Annual Meeting, Las Vegas, NV 2017.
45. Morris JB, Goss DL, Florkiewicz EM, **Davis IS**.  Using Real-Time Biofeedback to Alter Running Biomechanics: A Randomized Controlled Trial at the 1 Year Follow-Up.  Presented at the APTA Combined Sections Meeting, San Antonio, TX. Feb, 2017.
46. Morris JB, Goss DL, Florkiewicz EM, **Davis IS**.  Using Real-Time Biofeedback to Alter Running Biomechanics: A Randomized Controlled Trial at the 1 Year Follow-Up.  Presented at the American Society of Biomechanics Annual Meeting, Raleigh, NC, Aug 2016.
47. Jamison, SJ, Young, B and **Davis, IS.** Are midfoot strike patterns similar to forefoot strike patterns when running in minimal footwear? Presented at the American Society of Biomechanics Mtg, Raleigh, NC, Aug, 2016.
48. Cheung, RTH, Sze, LK, Chen, TL and **Davis, IS.** Minimalist running shoes increase intrinsic and extrinsic foot muscle volume in habitual shod runners. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
49. Futrell, EE, Tenforde, A, Jamison, ST and **Davis, IS.** Relationships between natural cadence and vertical loadrates in injured and healthy runners. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
50. Jamison, ST and **Davis, IS.** Validation of using a mobile application and ankle-worn accelerometers to calculate stance time asymmetry. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
51. Bridges, JT, Ridge, ST, Myrer, JW, Hunter, I, **Davis, IS**, Eggett, DL and Johnson, AW. Therapeutic exercise effects on function of the medial longitudinal arch during running: A Preliminary Study. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
52. Johnson, AW, deVries, TD, Brewer, S, Rich, A, Myrer, JW, **Davis, IS** and Ridge, ST. An 8 week exercise protocol and minimal shoe walking increases lower leg size. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
53. Rice, HT, Jamison, SJ and **Davis, IS.** Influence of habitual footwear and foot strike on resultant instantaneous loading rates. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
54. Au, IPH, An, WW, Ting, KH, **Davis, IS**, and Cheung, RTH. Biofeedback gait retraining reduces impact loading during walking. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
55. Troilo, L and **Davis, IS.** Successful treatment of the underlying cause of ITB syndrome. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
56. Griffin, DB, Olsen, MT, Johnson, W, **Davis, IS** and Ridge, ST. The effect of an 8 week arch muscle strengthening protocol on arch height index. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
57. Giacomini, B, Hespanhol Junior, LC, **Davis, IS,** and Lopes, AD. Footstrike pattern modification during running among children aged 3-15 years. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
58. Olsen, MT, Griffin, DB, deVries, T, Johnson, AW, **Davis, IS** and Ridge, ST. An 8-week strengthening protocol on intrinsic foot muscle size and strength. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
59. Morris JB, Goss DL, Florkiewicz EM, Davis IS, 2016.  Using Real-Time Biofeedback to Alter Running Biomechanics: A Randomized Controlled Trial at the Six Month Follow-Up. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
60. Ruder, MC, Tenforde, AS and **Davis, IS.** Differences in symmetry between habitually shod and habitually barefoot runners. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
61. Tenforde, AS, Ruder, MC and **Davis, IS.** Influence of shod and barefoot running conditions on gait symmetry for injured runners. Presented at the American College of Sports Medicine Meeting, Boston, MA, May, 2016.
62. Lopes, AD, Mascarinas, A, Hespanhol Junior, LC and **Davis, IS**. What are the main biomechanical variables associated with running injuries? A systematic review with meta-analysis. Presented at the Combined Section of the APTA Mtg, Anaheim, CA, Feb, 2016.
63. **Davis, IS**, Fleming, B, Morrison, R, and Rainbow, M. Alterations in hip and patellofemoral mechanics following a gait retraining intervention: A case report. Presented at the 4th International Patellofemoral Research Retreat, Manchester, England, September 2015
64. Rice, HM, Jamison, ST, Priuziner, AL and **Davis, IS**. Gait retraining to improve stance time asymmetry reduces knee external adduction moments: A case study of a unilateral transtibial amputee. Presented at the American Society of Biomechanics, Columbus, OH, Aug 2015.
65. Jamison, ST and **Davis, IS.** Validation of stance time determination using accelerometer data. Presented at the American Society of Biomechanics, Columbus, OH, Aug 2015.
66. Ruder, MC, Atimetin, P, Jamison, ST and **Davis, IS**. The effect of highly cushioned shoes on tibial acceleration in runners. Presented at the American Society of Biomechanics, Columbus, OH, Aug 2015.
67. Ruder, M, Atimetin, P, Futrell, E and **Davis, IS.** Effect of highly cushioned shoes on ground reaction forces during running. Presented at the American College of Sports Medicine Meeting, San Diego, CA, May, 2015.
68. Rice, HM, Jamison, ST and **Davis, IS.** Influence of habitual footwear and foot strike on resultant ground reaction forces. Presented at the American College of Sports Medicine Meeting, San Diego, CA, May, 2015.
69. Morrison, R and **Davis, IS.**  A novel approach to a runner’s foot pain. Presented at the American College of Sports Medicine Meeting, San Diego, CA, May, 2015.
70. Rainbow, MJ, Schwartz, JB, **Davis, IS** and Moore, DC. A method for assessing accuracy in tracking foot bones with biplanar videoradiography. Presented at the 7th World Congress of Biomechanics, Boston, MA, July, 2014.
71. Lopes, AD, Hespanhol, LC, Mascarinas, A and **Davis, IS.** Biomechanical factors in running-related Injuries: a systematic review. Presented at the American College of Sports Medicine Meeting, Orlando, FL, May 2014.
72. Samaan, CD, Schwartz, J, Graf, ES, **Davis, IS** and Rainbow, MJ. A standing alignment system improves between-session repeatability in gait kinematics: A preliminary study. Presented at the American Society of Biomechanics Mtg, Omaha, NE, Sept, 2013.
73. Graf, ES, Rainbow, MJ, Samaan, CD and **Davis, IS.** A modified strike index for detection of foot strike pattern in barefoot running. Presented at the American Society of Biomechanics Mtg, Omaha, NE, Sept, 2013
74. Davis, IS, Samaan, CD and Rainbow, M. Reduction in ground reaction forces with instructed barefoot Running. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2013.
75. Rainbow, MJ, Miranda, DL, Cheung, RT, Fleming, BC and **Davis, IS**. Patellofemoral kinematics during a jump-cut maneuver. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2013.
76. Cheung, RT, Rainbow, MJ, Altman, AR and **Davis, IS.** Modulation of stiffness on impact loading during running. Presented at the American Society of Biomechanics Meeting, Gainesville, FL, Aug, 2012.
77. Rainbow, MJ, Cheung, RT, Miranda, DL, Schwartz, JB, Crisco, JJ, **Davis, IS** and Fleming, BC**.** Tracking high speed patella motion using biplanar videoradiography: An accuracy study. Presented at the American Society of Biomechanics Meeting, Gainesville, FL, Aug, 2012.
78. Razzook, AR, **Davis, IS**, Gleason, C and Stanhope, SJ**.** Comparison of tibial strains and strain rates in barefoot and shod running. Presented at the American Society of Biomechanics Meeting, Gainesville, FL, Aug, 2012.
79. Altman, AR and **Davis, IS.** Comparison of tibial strains and strain rates in barefoot and shod running. Presented at the American Society of Biomechanics Meeting, Gainesville, FL, Aug, 2012.
80. Rainbow, MJ, Miranda, DL, Cheung, RT, Fleming, BC, and **Davis, IS**. Automatic determination of a morphology-based anatomical coordinate system of the human patella. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
81. Fellin, RE and **Davis, IS**. Does gait retraining reduce bony loads in runners? Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
82. Altman, AR and **Davis, IS**. Running related injuries during the transition from barefoot to shod running. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May, 2012.
83. Grävare Silbernagel, K, Willy, RW, **Davis, IS**. Pre- and post-injury running mechanics in a patient with an Achilles tendon rupture. Presented at the Combined Section Meeting of the APTA, Chicago, IL, Feb, 2012.
84. Willy, RW and **Davis, IS**. Static and Dynamic Predictors of the Knee Adduction Moment in Runners with and without PFP. Presented at the Combined Section Meeting of the APTA, Chicago, IL, Feb, 2012.
85. Cheung, RT and **Davis, IS**. Effects of Landing Pattern Modification in Runners with Patellofemoral Pain: A Case Series with 3 Months Follow-up. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August, 2011.
86. Willy, RW and **Davis, IS**. Mirror Gait Retraining for the Treatment of Patellofemoral Pain Syndrome in Female Runners. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August, 2011.
87. Willy, RW and **Davis, IS**. Gender Differences in Hip and Knee Mechanics of Patellofemoral Pain Syndrome during Running. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Ghent, Belgium, August, 2011.
88. Rose, W, Bowser, B, McGrath, R, Salerno, J and **Davis I.** The Effect of Footwear on Balance. Presented at the American Society of Biomechanics Mtg., Long Beach, CA, August, 2011.
89. Crowell, HP, Higginson, JS, Manal, K, Wang, L and **Davis, IS.** Combining Musculoskeletal Modeling and Optimization to Estimate Muscle Forces in the Tibia. Presented at the American Society of Biomechanics Mtg., Long Beach, CA, August, 2011.
90. Altman, AR and **Davis, I**S. Do Barefoot Runners Display more Variability in Footstrike Mechanics than Shod Runners? Presented at the American Society of Biomechanics Mtg., Long Beach, CA, August, 2011.
91. Willy, RW and **Davis, IS.** The Persistence of Gait Changes in Runners with Patellofemoral Pain Syndrome. Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
92. Barrios, JA and **Davis, IS.** Clinical Measurement of Tibial Mechanical Axis: Reliability and Normative Data.Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
93. Gruber, AH, **Davis, IS** and Hamill, J. Frequency Content of the Vertical Ground Reaction Force Component during Rearfoot and Forefoot Running Patterns. Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
94. Fellin, RE and **Davis, IS**. Transfer of Gait Retraining Effects from Treadmill to Overground Running. Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
95. Bowser, BJ and **Davis, IS.** Kinematic Strategies used by Runners to Reduce their Tibial Shock following Gait Retraining. Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
96. Altman, AR and **Davis, IS.** Comparing Barefoot Running to Altered Strike Pattern in Shoes. Presented at the American College of Sports Medicine Mtg., Denver, CO, June, 2011.
97. **Davis**, I, Bowser, B and Mullineau, D. Do Impacts Cause Running Injuries? A Prospective Investigation. Presented at the American Society of Biomechanics Mtg., Providence, RI, August, 2010.
98. Fellin, R and **Davis, I**. Are The Effects 0f Gait Retraining Similar between the trained and the Untrained, Contralateral Limb of Runners?Presented at the American Society of Biomechanics Mtg., Providence, RI, August, 2010.
99. Altman, A and Davis, I. A Kinematic Method for Strike Pattern Detection. Presented at the American Society of Biomechanics Mtg., Providence, RI, August, 2010.
100. Bowser, B and Davis, I. A Prospective Study of Loading Variables In Female Runners who Develop Plantar Fasciitis. Presented at the American Society of Biomechanics Mtg., Providence, RI, August, 2010.
101. Willy, R and Davis, I. Reducing Abnormal Alignment in Female Runners with PFPS through Gait Retraining using Mirror Feedback. Presented at the American Society of Biomechanics Mtg., Providence, RI, August, 2010.
102. **Davis, I.** Bowser, B and Hamill, J. Vertical Impact Loading in Runners with a History of Patellofemoral Pain Syndrome. Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
103. Willy, R and **Davis, I.** A Comparison of Hip Mechanics in Male and Female runners with Patellofemoral Pain Syndrome.Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
104. Westcott, M, Rombach, J, Willy, R and **Davis, I**. Hip Strength and 3-D Mechanics During Running and Squatting in Asymptomatic Female Runners. Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
105. Noehren, B and Davis, I. Does gait retraining hip kinematics alter loading rates in runners with patellofemoral pain syndrome? Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
106. Fellin, R and Davis, I. Effect of a Gait Retraining Program to Reduce Vertical Loading on the Contralateral, Untrained Limb Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
107. Altman, A and Davis, I. Impact Loading Can Be Reduced With A Midfoot Strike Pattern**.** Presented at the American College of Sports Medicine Mtg., Baltimore, MD, June, 2010.
108. Tran, D, **Davis, I**, Goyal, K and Tashman, S. Intrasubject Variability of *In Vivo* Patellofemoral Kinematics for a Three-Dimensional Model-Based Technique. Presented at the Orthopedic Research Society Meeting, New Orleans, LA, March, 2010.
109. Willy, R and **Davis, IS**. The effects of a hip strengthening program on running and squatting kinematics in females with abnormal hip mechanics. Presented at the Combined Section of the American Physical Therapy Association, San Diego, CA, February, 2010.
110. Orlin, MN, Laibsirinon, S and **Davis, IS**. Ground reaction forces and kinetics of running in children with cerebral palsy compared to children with typical development. Presented at the Combined Section of the American Physical Therapy Association, San Diego, CA, February, 2010.
111. Noehren, BM and **Davis, IS**. Running mechanics, pain, and function in runners with patellofemoral pain syndrome following gait retraining and at one-month follow-up. Presented at the Combined Section of the American Physical Therapy Association, San Diego, CA, February, 2010.
112. Barrios, JA and **Davis, IS**. The influence of lateral wedging over time in patients with medial knee osteoarthritis: an analysis of frontal plane knee mechanics and clinical outcomes**.** Presented at the Combined Section of the American Physical Therapy Association, San Diego, CA, February, 2010.
113. Morrison KE, **Davis IS**, Dierks TA, Richards JG, Royer TD, Hudson DJ, Kaminski TW. Ankle and rearfoot mechanics during a running gait and a lateral hop in subjects with chronic ankle instability. Presented at the National Athletic Training Association Mtg., San Antonio, TX., June, 2009.
114. Morrison KE, **Davis IS**, Dierks TA, Richards JG, Royer TD, Hudson DJ, Kaminski TW. Plantar pressure distributions during a running gait in subjects with chronic ankle instability. Presented at the 4th International Ankle Symposium, Sydney, Australia, 2009.
115. **Davis, IS**, Crowell, HP, Fellin, RE and Altman, AR. Reduced impact loading following gait retraining over a 6 month period. Presented at the Societa Italiana di Analisis del Movimento in Clinica, Alghero, Sardegna, Italy, October, 2009.
116. Barrios, JA and **Davis, IS**. Gait retraining to reduce the knee adduction moment through realtime feedback of dynamic knee alignment.Presented at the American Society of Biomechanics Meeting, State College, PA, August, 2009.
117. Fellin, RE and **Davis, IS**.Comparison of warm-up periods for treadmill running.Presented at the American Society of Biomechanics Meeting, State College, PA, August, 2009.
118. Willy, R and **Davis, IS**.The effect of hip strengthening on running and squatting mechanics in female runners.Presented at the American Society of Biomechanics Meeting, State College, PA, August, 2009.
119. Altman, A and **Davis, IS**. Is midfoot striking during running advantageous over rearfoot striking? Presented at the American Society of Biomechanics Meeting, State College, PA, August, 2009.
120. **Davis, IS**, Crowell, HP, Fellin, RE and Altman, AR. Reduced impact loading following gait retraining over a 6 month period. Presented at the American Society of Biomechanics Meeting, State College, PA, August, 2009.
121. Altman, A and **Davis, IS**. Muscle Onset Timing in Subjects Trained to Reduce Tibial Shock. Presented at the American College of Sports Medicine Meeting, Seattle, WA, May, 2009.
122. Dierks, TA, Holder, MD and **Davis, IS**. The influence of running with pain on lower extremity kinematics In runners with patellofemoral pain. Presented at the American College of Sports Medicine Meeting, Seattle, WA, May, 2009.
123. Fellin, RA and **Davis, IS**. Free moment changes following gait retraining protocol to reduce tibial shock. Presented at the American College of Sports Medicine Meeting, Seattle, WA, May, 2009.
124. Noehren, BM and **Davis, IS**. Can gait retraining change hip kinematics and reduce symptoms in runners with patellofemoral pain syndrome? Presented at the American College of Sports Medicine Meeting, Seattle, WA, May, 2009.
125. Willy, R and **Davis, IS**. A comparison of treadmill running in minimal footwear compared to standard running shoes. Presented at the American College of Sports Medicine Meeting, Seattle, WA, May, 2009.
126. Noehren, BM, Pohl, M, Barrance, P and **Davis, IS.** Tibiofemoral and patellofemoral alignment during a single-leg squat: An MRI study. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Baltimore, MD, April, 2009.
127. Noehren, BM and **Davis, IS**. The Effect of Gait Retraining on Hip Mechanics, Pain and Function in Runners with Patellofemoral Pain Syndrome. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Baltimore, MD, April, 2009.
128. Dierks, TA and **Davis, IS.** Rearfoot and Knee Coupling over a Prolonged Run in Runners with Patellofemoral Pain Syndrome. Presented at the International Patellofemoral Pain Syndrome Research Retreat, Baltimore, MD, April, 2009.
129. Barrios, JA, **Davis, IS**. The influence of knee varus alignment on knee varus torques and rearfoot eversion in young individuals with healthy, varus knees**.** Presented at the Combined Section of the American Physical Therapy Association, Nashville, TN, February, 2009.
130. Noehren, BM, Barrance, P and **Davis, IS**. Tibiofemoral and patellofemoral alignment during a single leg squat: An MRI study. Presented at the Combined Section of the American Physical Therapy Association, Nashville, TN, February, 2009.
131. **Davis, IS** and Dierks, TA. Rearfoot and knee coupling during a prolonged run in individuals with patellofemoral pain syndrome. Presented at the International Foot and Ankle Biomechanics Meeting in Bologna, Italy, September, 2008.
132. Altman, A, Pohl, M, Barrios, J and **Davis, I**. A 3D kinematic comparison between single-belt and split-belt treadmill walking. Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
133. Barrios, JA and **Davis, IS**. The relationship between hip and knee kinematics to the knee adduction moment in asymptomatic individuals with genu varum. Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
134. Dierks. TA and **Davis, IS**. Joint coupling of the rearfoot and knee in runners with patellofemoral pain syndrome during a prolonged run. Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
135. Fellin, RE and **Davis, IS**. Comparison of variability between overground and treadmill running. Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
136. Noehren, B and **Davis, I**. Can between-day kinematic reliability be improved? Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
137. Willy, R, Pohl, MB and **Davis, IS**. Calculation of vertical load rates in the absence of vertical impact peaks. Presented at the North American Congress of Biomechanics Meeting, Ann Arbor, MI, August, 2008.
138. Altman, A, Pohl, M and **Davis, IS**. A comparison of split belt and single belt treadmill walking over time. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
139. Barrios, JA and **Davis, I**. The effect of gait retraining on medial knee loading. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
140. Dierks, TA and **Davis, IS**. Relationship between static alignment and knee valgus in runners with patellofemoral pain. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
141. Fellin, RE and **Davis, IS**. Pattern comparison of 3D lower limb kinematics during overground and treadmill running. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
142. Noehren, B, Pohl, M Barrance, P and **Davis, I.** Relationship between tibiofemoral and patellofemoral alignment during a single leg squat: A preliminary MRI study. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
143. Pohl, MB and **Davis, IS**. What strategies do runners utilize to reduce tibial shock following a gait retraining protocol? Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
144. Willy, R, and **Davis, I**. Instrumented comparison of overground and treadmill running in healthy adults. Presented at the American College of Sports Medicine Meeting, Indianapolis, IN, May, 2008.
145. Barrios, JA, **Davis, IS**, Lloyd, CH and Royer, T. Progression of dynamic knee loading at one year in medial knee osteoarthritis: The influence of baseline load. Presented at the Combined Section of the American Physical Therapy Association, Nashville, TN, February, 2008.
146. Barrios, J and **Davis, I**. A gait modification to reduce the external adduction moment at the knee: A case study. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
147. Pohl, M, **Davis, I** and Hamill, J. Prospective study of kinetic factors associated with tibial stress fractures in runners. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
148. Fellin, R and **Davis, I.** Comparison of methods for determining footstrike and toe-off during overground running. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
149. Dierks, T, **Davis, I**, Scholz, J, and Hamill, J. Variability of joint coupling within the lower extremity in runners with patellofemoral pain during a prolonged run. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
150. Noehren, B and **Davis, I.** Prospective study of the biomechanical factors associated with patellofemoral pain syndrome. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
151. Barrance, P, Pohl, M, Noehren, B, Barrios, J and **Davis I**. Bone surface tracking for standing knee MRI: A validadation study. Presented at the American Society of Biomechanics Meeting, Palo Alto, CA, August, 2007.
152. Hamill, J, Miller, R, Noehren, B and **Davis, I**. A strain model of the Iliotibial Band. Presented at the International Society for Sport Biomechanics, Brazil, August, 2007.
153. Barrios, J, **Davis, I**, Lloyd, C, and Royer, T. Differences in frontal plane mechanics between asymptomatic controls and patients with medial or lateral compartment tibiofemoral osteoarthritis. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
154. Butler, R and **Davis, I**. The effect of footwear on hip and knee mechanics in low arched runners. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
155. Fellin, R, Barrios, J and **Davis, I**. 3D kinematic hip, knee and rearfoot comparison of overground and treadmill running. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
156. Lloyd, C, Royer, T, Barrios, J and **Davis, I**. Medially wedged insoles reduce knee pain during functional activities in subjects with lateral knee osteoarthritis. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
157. Noehren, B and **Davis, I**. Frontal and transverse plane rearfoot, hip and knee patterns in female runners with a history of patellofemoral pain. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
158. Pohl, M and **Davis, I**. Predicting retrospective tibial stress fractures in female runners using kinematic and kinetic variables. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
159. Willson, J and **Davis, I**. Mechanics of single leg jumps during exertion in females with and without patellofemoral pain syndrome. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
160. Zifchock, R and **Davis, I**. Consecutive footstrikes may not be necessary to quantify gait symmetry during running. Presented at the American College of Sports Medicine Meeting, New Orleans, June, 2007.
161. Willson, J and **Davis, I**. Frontal plane projection angles of the knee during single leg squats among females with and without patellofemoral pain. Presented at the Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, February, 2007.
162. Barrios, J. **Davis, I.,** Crenshaw, JR and Royer, TD. Acute effects of laterally wedged orthoses on walking and stair negotiation in subjects with medial compartment tibiofemoral osteoarthritis. Presented at the Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, February, 2007.
163. Noehren, B, Willson, J and **Davis, I**. Realtime feedback to improve gait kinematics in runners with patellofemoral pain: A case series. Presented at the Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, February, 2007.
164. Barrios, J, Royer, T, Crenshaw, J and **Davis, I**. Frontal plane mechanics during walking in patients with lateral compartment tibiofemoral osteoarthritis with and without a medially wedged orthosis. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
165. Crowell, H and **Davis, I**. Reducing lower extremity loads through gait retraining using real-time feedback methods. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
166. Dierks, T, **Davis, I** and Hamill, J. Continuous relative phase within the lower extremity in runners with patellofemoral pain during a prolonged run. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
167. Noehren, B, **Davis, I** and Hamill, J. Prospective Study of the Biomechanical Factors Associated with Iliotibial Band Syndrome. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
168. Willson, J and **Davis, I.** Hip strength and running mechanics in females with and without patellofemoral pain. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
169. Zifchock, R and **Davis, I.** A novel, more robust method to quantify symmetry. Presented at the American Society of Biomechanics Meeting in Blacksburg, VA, Sept 2006.
170. **Davis, IS** "Gait Retraining in Runners with Patellofemoral Pain Syndrome". Presented at the International Patellofemoral Study Group Meeting, Boston, MA, May, 2006.
171. Crowell, H, and **Davis, I**. Between Day Reliability of Accelerometry. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
172. McCoy, K, Zifchock, R and **Davis, I**. The Effect of Custom and Semi-Custom Orthotic Devices on Rearfoot Control and Comfort in High and Low-Arched Runners. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
173. Milner, C, **Davis, I** and Hamill, J. Are initial contact conditions related to tibial stress fracture in distance runners? Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
174. Crenshaw, J, Royer, R, Barrios, J and **Davis, I**. Long-Term Effects of Wedged Orthoses on Function and WOMAC Scores in Subjects with Knee Osteoarthritis. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
175. Chang, R, **Davis, I**, and Hamill, J. Are Rearfoot Parameters Normally Distributed? Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
176. Dierks, T, **Davis, I** and Hamill, J. Lower Extremity Joint Timing During Prolonged Treadmill Running In Runners With Patellofemoral Joint Pain. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
177. Noehren, B, **Davis, I**, Hamill, J and Ferber R. Secondary Plane Biomechanics of Iliotibial Band Syndrome in Competitive Female Runners. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
178. Willson, J and **Davis, I**. Association between the single leg squat test and the energetics of single leg landings. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
179. Royer, T, Crenshaw, J, Barrios, J and **Davis, I**. Wedged Shoe Orthoses Reduce Peak Medial Ground Reaction Force. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
180. Zifchock, R, **Davis, I** and Hamill, J. Hip, Knee, and Ankle Velocities May Predict Injury Risk in Female Distance Runners. Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
181. Barrios, J, **Davis, I**, Crenshaw, J and Royer, T. Effect of laterally wedged orthoses on frontal plane knee mechanics in subjects with medial compartment tibiofemoral osteoarthritis**.** Presented at the American College of Sports Medicine Mtg, Denver, CO, June, 2006.
182. Willson, J and **Davis, I**. Utility of the frontal plane projection angle of the knee during single leg squats. Presented at the ACL Research Retreat III: The Gender Bias. Lexington, KY, April, 2006.
183. Mullineaux, D, Dierks, T and **Davis, I.** Variability in coordination of leg kinematics in males and females during treadmill running. Presented at the ACL Research Retreat III: The Gender Bias. Lexington, KY, April, 2006.
184. Dierks, TA, **Davis, IS**, Manal, KT and Hamill, J. Lower Extremity Kinematics in Runners with Patellofemoral Pain during a Prolonged Run. Presented at the International Symposium on Sports Medicine, Ramat Gan, Israel, 2006.
185. Butler, RJ, **Davis, IS**, Hamill, J and Knight, C. Does Footwear affect Lower Extremity Variability in High and Low Arched Runners. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
186. Butler, RJ, **Davis, IS** and Hamill, J. The Effect of Motion Control and Cushioning Shoes on High and Low Arched Runners. Presented at the Footwear Symposium, Cleveland, OH, August, 2005.
187. Dierks, TA, **Davis, IS**, Manal, KT, and Hamill, J. Kinematics of Runners with and without Patellofemoral Pain during Prolonged Treadmill Running. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
188. Hamill, J, Haddad, JM. Milner, CE and **Davis, IS**. Intralimb Coordination in Female Runners with Tibial Stress Fractures. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
189. Milner, CE, **Davis, IS** and Hamill, J. Does Free Moment Predict the Incidence of Tibial Stress Fractures? Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
190. Seay, J, Haddad, JM. Milner, CE, **Davis, IS** and Hamill, J. Dynamic Symmetry in Female Runners with a History of Tibial Stress Fractures. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
191. Willson, JD and **Davis, IS**. Utility of the Frontal Plane Projection Angle of the Knee During Single Leg Squats. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
192. Zifchock, RA, **Davis, IS** and Hamill, J. Kinetic Asymmetry in Left and Right Dominant Female Runners: Implications for Injury. Presented at the International Society of Biomechanics Mtg, Cleveland, OH, August, 2005.
193. Buchanan, KR and **Davis, IS**. The Relationship between Forefoot Structure and Rearfoot and Midfoort Mechanics. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
194. Butler, RJ, **Davis, IS** and Hamill, J. Interaction of Shoe and Arch Height on Running Mechanics. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
195. Crowell, HP, Milner, CE, Hamill, J and **Davis, IS**. Short-term Retention of Gait Changes after Realtime Feedback to Reduce Shock. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
196. Dierks, TA and **Davis, IS**. Hip Strength and Hip Kinematics during Prolonged Running in Runners with Patellofemoral Joint Pain. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
197. Milner, CE, **Davis, IS** and Hamill, J. Is Dynamic Hip and Knee Malalignment associated with Tibial Stress Fractures in Female Distance Runners? Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
198. Willson, JD and **Davis, IS**. Gait Retraining Using Real-Time Kinematic Biofeedback to decrease Torsional Loads. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
199. Zifchock, RA and **Davis, IS**. Kinetic Asymmetry in Female Runners with and without Retrospective Tibial Stress Fractures. Presented at the American College of Sports Medicine Mtg, Nashville, TN, May, 2005.
200. **Davis, IS**, Milner, CE and Hamill, J. Prospective Study of Rearfoot Mechanics in Runners who Develop Plantar Fasciitis. Presented at the American Society of Biomechanics Mtg, Portland, OR, September 2004.
201. Willson, JD and **Davis, IS**. Clinical quantification of frontal plane knee angle: Correlation of 2D and 3D motion analysis**.** Presented at the American Society of Biomechanics Mtg, Portland, OR, September 2004.
202. Dierks, TA, **Davis, IS**, and Hamill, J. Lower Extremity Joint Coupling in Runners who Develop Patellofemoral Pain Syndrome. Presented at the American Society of Biomechanics Mtg, Portland, OR, September 2004.
203. Milner, CE, **Davis, IS** And Hamill, J. Does Sustaining a Lower Extremity Stress Fracture alter Lower Extremity Mechanics in Runners? Presented at the American Society of Biomechanics Mtg, Portland, OR, September 2004.
204. Butler, RJ, **Davis, IS**, Royer, T, Crenshaw, S and Mika, ES. Differences in Frontal Plane Mechanics during Walking between Patients with Medial and Lateral Knee Presented at the American Society of Biomechanics Mtg, Portland, OR, September 2004.
205. Zifchock**,** RA, **Davis, IS** and Hillstom, H. Age and Gender Differences in Arch Height and Arch Stiffness. Presented at the American Society of Biomechanics Mtg, Portland, OR, September, 2004.
206. **Davis, I**, Milner, C and Hamill, J (2004). “Does increased loading during running lead to tibial stress fractures: A prospective study”. Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
207. Milner, C, **Davis, I,** and Hamill, J (2004). “Is free moment related to tibial stress fractures in runners?” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
208. Pollard, C, Heiderscheidt, B, **Davis, I,** and Hamill, J. “Influence of Gender on Lower Extremity Segment and Joint Coordination During an Unanticipated Cutting Maneuver.” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
209. Willson, J. Ireland, ML, and **Davis, I**. “The influence of lumbopelvic strength on lower extremity performance.” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
210. Zifchock, R, Butler, R and **Davis, I**. “Measured differences in arch height as a function of gender.” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
211. Butler, R, **Davis, I**, Royer, T and Crenshaw, S (2004). “The effect of wedged orthotics on hip and ankle mechanics.” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
212. Dierks, T. and **Davis, I** “Lower extremity joint coupling and patellofemoral pain during running.” Presented at the American College of Sportsmedicine Meeting, Indianapolis, IA, June, 2004.
213. Crenshaw, S, Royer, T, Butler, R, and **Davis, I** “Laterally wedged insoles reduce knee pain during functional activities in subjects with medial knee osteoarthritis. Presented at the Gait and Clinical Movement Analysis Society, Lexington, KY, April, 2004.
214. Zifchock, RA, **Davis, IS** & Butler, RJ. Arch Height Differences between Genders and across Decades. Presented at the annual CBER Research Day, University of Del., May, 2004.
215. Milner, CE, **Davis, IS** And Hamill, J. Does Sustaining a Lower Extremity Stress Fracture alter Lower Extemity Mechanics in Runners? Presented at the annual CBER Research Day, University of Del., May, 2004.
216. Dierks, TA & **Davis, IS**. "Lower Extremity Joint Coupling and Patellofemoral Joint Pain in Runners" Presented at the annual CBER Research Day, University of Del., May, 2004.
217. Butler, R, **Davis, I**, Royer, T and Crenshaw, S. “The effect of wedged orthotics on hip and ankle mechanics.” Presented at the annual CBER Research Day, University of Del., May, 2004.
218. Willson, J. Ireland, ML, and **Davis, I** “The influence of lumbopelvic strength on lower extremity performance.” Presented at the annual CBER Research Day, University of Del., May, 2004.
219. Cashen, C, Mika, ES, Butler, RJ, Royer, T, & **Davis, IS**. "The Effect of the Laterally Wedgrd Orthosis on Knee Kinematics and Kinetics in Patients with Medial Knee OA" Presented at the annual CBER Research Day, University of Del., May, 2004.
220. **McClay Davis, I,** Dierks, TA, and Ferber, R. Lower extremity mechanics in patients with patellofemoral joint pain: A prospective study. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
221. Gupta, R and **McClay Davis, I.** Lower extremity mechanics behind successful orthotic intervention in patients with anterior knee pain. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
222. Dierks, TA and **McClay Davis, I**. Discrete and continuous joint coupling during running. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
223. Butler, RJ**, McClay Davis, I**, Royer, T, Crenshaw, S and Mika, E. Toe-out effects frontal plane knee moments and angles in patients with knee osteoarthritis. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
224. Crenshaw, S, Royer, T, **McClay Davis, I**, Mika, E and Butler, R. The effect of laterally wedged insoles on standing alignment. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
225. Richards, CJ, Card, K, Song, J, Hillstrom, H, Butler, R and McClay Davis, I. A novel arch height index measurement system (AHIMS): Intra- and inter-rater reliability. Presented at the American Society of Biomechanics Meeting, Toledo, OH, September, 2003.
226. **McClay Davis, I**, Ferber, R, Hamill, J and Pollard, CD. Rearfoot mechanics in competitive runners who had experienced plantar fasciitis. Presented at the International Society of Biomechanics Mtg in Dunedin, New Zealand in July, 2003.
227. Butler, RJ, **McClay Davis, I**, Royer, T, Crenshaw, S and Mika, ES. Acute effects of wedged orthoses on knee mechanics in patients with knee osteoarthritis. Presented at the International Society of Biomechanics mtg in Dunedin, New Zealand in July, 2003.
228. Ferber, R, **McClay Davis, I**, Hamill, J and Pollard, CD. Prospective biomechanical investigation of Iliotibial band syndrome in competitive female runners. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
229. Willson, JD, **McClay Davis, I** and Ireland, ML. Relationship between hip strength and tibiofemoral valgus angle during single leg squats. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
230. Dierks, TA, **McClay Davis, I**, and Ferber, R. Gender differences in discrete joint coupling variables during running. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
231. DeLeo, AT, Ferber, R, Mika, ES and **McClay Davis, I**. Comparison of rearfoot motion and comfort between custom and semi-custom orthotics based on arch height. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
232. Butler, RJ, Ferber, R and **McClay Davis, I**. Gender differences in lower extremity stiffness during running. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
233. Pollard, CD, Maclean, C, **McClay Davis, I** and Hamill, J. Knee joint kinematics during a single limb squat: Gender based differences in the collegiate soccer player. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
234. **McClay Davis, I**, Dierks, TA and Ferber, R. Gender differences in continuous joint coupling variables during running. Presented at the American College of Sports Medicine Mtg, San Francisco, CA, May 2003.
235. Ferber, R, **McClay Davis, I**, Hamill, J. The effect of orthotics on lower extremity joint coupling. Variables associated with the incidence of lower extremity stress fractures. Presented at the World Congress of Biomechanics Mtg, Calgary, Canada, August, 2002.
236. DeLeo, A, **McClay Davis, I** and Ferber, R. Custom and Semi-custom orthotic devices: A comparison of motion control and comfort. Presented at the World Congress of Biomechanics Mtg, Calgary, Canada, August, 2002.
237. **McClay Davis, I**, Ferber, R, Dierks, T, Butler, R, and Hamill, J. Variables associated with the incidence of lower extremity stress fractures. Presented at the World Congress of Biomechanics Mtg, Calgary, Canada, August, 2002.
238. Pollard CD, **McClay IS**, Hamill J. Multiple Lower Extremity Stress Fractures in a Female Division I Cross-Country Runner: A Case Study. Presented at the Combined Sections Meeting of the APTA, Boston, MA, February 2002.
239. McCrory, JL, Quick, NE, Ballantyne, BT, and **McClay Davis, I.** Effects of a Dynamic Knee Orthosis on Subject Kinematics during the Lateral Step-Up Exercise. Presented at the American College of Sports Medicine Meeting in St. Louis, MO, June, 2002.
240. Ferber, R, **McClay Davis, I**, Hamill, J,, Pollard, CD, and McKeown, KA. Kinetic Variables in Subjects with Previous Lower Extremity Stress Fractures. Presented at the American College of Sports Medicine Meeting in St. Louis, MO, June, 2002.
241. Pollard, CD, McKeown, KA, Ferber, R, **McClay Davis, I,** and Hamill, J. Selected Structural Characteristics of Female Runners with and without Lower Extremity Stress Fractures. Presented at the American College of Sports Medicine Meeting in St. Louis, MO, June, 2002.
242. Leetun, DT, Ireland, ML, Ballantyne, BT and **McClay, IS**. Differences in Core Stability between Male and Female Collegiate Basketball Athletes as Measured by Trunk and Hip Performance. Presented at the ACL Research Retreat, Lexington, KY, April, 2001.
243. Ireland, ML, Ballantyne, BT, Little, K and **McClay, IS**. A Radiographic Analysis of the Relationship between the Size and Shape of the Intercondylar Notch and Anterior Cruciate Ligament Injury Presented at the ACL Research Retreat, Lexington, KY, April, 2001.
244. Shapiro, R, Yates, J, **McClay, I**, and Ireland, ML. Male-Female Biomechanical Differences in Selected Landing Maneuvers. Presented at the ACL Research Retreat, Lexington, KY, April, 2001.
245. Laughton, CA, **McClay, IS**, Hamill, J. Effect of Orthotic Intervention and Strike Pattern on Tibial Shock in Runners. Presented at the International Society of Biomechanics, Zurich, Switzerland, July, 2001.
246. **McClay, IS**, Hughes, MA, Laughton, CA, Gupta, R. Effect of Soft Orthotics on Tibial Shock and Rearfoot Motion. Presented at the American College of Sports Medicine Mtg, Baltimore, June, 2001.
247. Manal, KT & **McClay, IS**. Errors in Estimating Tibial Translation during Natural Cadence Walking: Bone vs. Skin Mounted Tracking Markers. Presented at the American College of Sports Medicine Mtg, Baltimore, June, 2001.
248. Laughton, CA, **McClay, IS**, & J. Hamill. Effect of Foot Orthoses and Strike Pattern on Rearfoot Motion. Presented at the American College of Sports Medicine Mtg, Baltimore, June, 2001.
249. Ballantyne, BT, Leetun, D, Ireland, ML, & **McClay, IS**. Gender differences in core stability as measured by trunk and hip performance Presented at the American College of Sports Medicine Mtg, Baltimore, June, 2001.
250. McCrory, JL, Quick, NE, Ballantyne, BT & **McClay, IS**. Effect of a Resistive Dynamic Knee Orthosis on Muscle Activations During the Lateral Step Up. Presented at the American College of Sports Medicine Mtg, Baltimore, June, 2001.
251. Laughton, CA and **McClay, IS**. Relationship between Loading Rates and Tibial Accelerometry in Forefoot Strike Runners. Presented at the Annual American Society of Biomechanics Mtg, Chicago, IL, July, 2000.
252. Williams, DS and **McClay, IS**. Lower Extremity Stiffness in Runners with High and Low Arches. Presented at the Annual American Society of Biomechanics Mtg, Chicago, IL, July, 2000.
253. Manal, KT, **McClay, IS**, Richards, J and Stanhope, SJ. Effect of Marker Placement on Knee Joint Moments. Presented at the Canadian Society of Biomechanics Mtg, Montreal, July, 2000.
254. Hamill, J, Heidersheidt, B, **McClay, IS**, Li, L. Influence of Strike Pattern on Lower Extremity Stiffness in Runners. Presented at the Canadian Society of Biomechanics Mtg, Montreal, July, 2000.
255. Williams, DS and **McClay, IS**. Injury Patterns in Runners with Pes Cavus and Pes Planus. Presented at the ACSM National Mtg in Indianapolis, IN, June, 2000.
256. Sahte, V, Ireland, ML, Ballantyne BT and **McClay, IS**. Acute Effect of the Protonics System on Patellofemoral Alignment. Presented at the ACSM National Mtg in Indianapolis, IN, June, 2000.
257. Ott, S, Ireland, ML, Ballantyne, BT and **McClay, IS**. Gender Differences in Functional Outcomes following ACL Reconstruction. Presented at the ACSM National Mtg in Indianapolis, IN, June, 2000.
258. Williams, DS, **McClay, IS** & Laughton, CA. A Comparison of between day Reliability of Different Types of Lower Extremity Kinematic Variables in Runners. Presented at the American Society of Biomechanics, October, 1999, Pittsburgh, PA.
259. **McClay, IS**, Williams, DS & Laughton, CA. Can Gait be Retrained to Prevent Injury in Runners? Presented at the American Society of Biomechanics, October, 1999, Pittsburgh, PA.
260. **McClay, IS**, Williams, DS and Baitch, S. The Effect of the Inverted Orthotic on Lower Extremity Mechanics. Presented at the International Society of Biomechanics Mtg, August, 1999, Calgary, Canada.
261. **McClay, IS**, & Williams, DS. Structure and Mechanics of Injured Twin Runners. Presented at the ACSM National Mtg in Seattle, WA, June, 1999.
262. Wills, J & **McClay, IS**. Epidemiology of Extreme Sports. Presented at the ACSM National Mtg in Seattle, WA, June, 1999.
263. Crook, S, Ballantyne, BT & **McClay, IS**. Reliability of a Functional Assessment Tool. Presented at the ACSM National Mtg in Seattle, WA, June, 1999.
264. Laughton, CA, **McClay, IS** and Williams, DS. A Comparison of Methods of Obtaining a Negative Impression of the Foot. Presented at the National APTA Conference, Washington, DC, June, 1999.
265. Williams, DS, **McClay, IS**. Reliability and Validity of Arch Characterizing Measurements. Presented at the Combined Sections Mtg of the APTA, Seattle, WA, February, 1999.
266. **McClay, IS**, Williams, DS, and Manal, KT. Lower Extremity Mechanics of Runners with a Converted Forefoot Strike Pattern. NACOB, Chicago, IL, 1998.
267. Manal, KT, **McClay, IS** et al. A Comparison of Surface Mounted Markers and Attachment Methods in estimating Tibial Rotations during Walking. Am. Soc. Biom. Mtg, Clemson, SC, Oct, 1997.
268. **McClay, IS** The Relationship between Lower Extremity Mechanics and Injury in Runners to be presented at the Whitaker Conference, Utah, August, 1996.
269. **McClay, IS** & Manal, KT. A Comparison of Rearfoot and Knee Kinematics during Running between Excessive Pronators and Normals. Presented at the Canadian Orthopedic Research Society Meeting, Quebec City, May, 1996.
270. **McClay, IS** & Manal, KT. Lower Extremity Kinematic Comparisons between Forefoot and Rearfoot Strikers. Presented at the American Society of Biomechanics Meeting, Stanford, CA August, 1995.
271. **McClay, IS** & Manal, KT. Lower Extremity Kinetic Comparisons between Forefoot and Rearfoot Strikers. Presented at the American Society of Biomechanics Meeting, Stanford, CA August, 1995.
272. **McClay, IS** & Manal, KT. Coupling Parameters in Runners who Pronate and Normals. Presented at the American Society of Biomechanics Meeting, Columbus, Ohio, November, 1994*.*
273. **McClay, IS** & Manal, KT (1995). A Comparison of Two- and Three-dimensional Lower Extremity Kinematics during Running between Pronators and Normals. (Presented at the American Society of Biomechanics Meeting, Columbus, Ohio, November, 1994*.*
274. **McClay, IS,** Cavanagh, PR, Sommer, HJ, & Kalenak, A. "Three-Dimensional Kinematics of the Patellofemoral Joint during Running". Proceedings of the American Society of Biomechanics Meeting, October, 1991,Tempe, AZ.
275. **McClay, IS,** Cavanagh, PR, Sommer, HJ, & Kalenak, A. The Effect of Orthotic Treatment on Tibiofemoral and Patellofemoral Joint Kinematics. *Physical Therapy,* 71(6):S46-7, 1991.
276. **McClay, IS,** Cavanagh, PR, Sommer, HJ, Woltring, HJ, & Kalenak, A. Three-Dimensional Angular Kinematics of the Tibiofemoral Joint During Running. Proceedings of the International Symposium on 3-D Analysis of Human Movement, Montreal, July, 1991.
277. Cavanagh, PR, Robinson, JR & **McClay, IS**. Biomechanical Perspective of Stress Fractures in Professional Basketball Players. *Med Sci Sport and Exercise,* 22:(2) S104, April, 1990.
278. Woltring, HJ, **McClay, IS**, & Cavanagh, PR. 3-D Photogrammetric Camera Calibration without a Calibration Object. Abstract published in the Proceedings of the International Society of Biomechanics Meeting, Los Angeles, CA, June, 1989.
279. **McClay, IS**, Cavanagh, PR, & Kalenak, A. Biomechanical Evaluation of the Injured Runner. Abstract published in the Proceedings of the East Coast Gait Conference, November, 1987.
280. Brubaker, CE, **McClay, IS**, & McLaurin, CA. Effect of Seat Position of Propulsion Efficiency. Proceedings of the 2nd International Conference on Rehabilitation Engineering, 1984, pp. 134-138.
281. Brubaker, CE, **McClay, IS**, & McLaurin, CA. The Effect of Mechanical Advantage on Lever Propulsion Efficiency. Proceedings of the 6th Annual Conference on Rehabilitation Technology, 1983, pp. 122-124.

Continuing Education Workshops Conducted/Organized

1. Science of Running Medicine,2 day course, Sao Paulo, Brazil, Aug 2019
2. Science of Running Medicine, 2 day course, Baltimore, MD, Mar, 2019.
3. Science of Running Medicine, 2 day course, Ann Arbor Michigan, Oct, 2018.
4. Lets Think Differently about the Foot. 2 hour virtual course for Physical Therapy.com, Oct 2018.
5. Innovative Approach to the Injured Runner. 1 day course presented at Elon University, Elon, NC, Dec 2017.
6. Innovative Approach to the Injured Runner. 2 day course sponsored by the Wilson Mellon Institute, Campinas, Brazil, May, 2017.
7. Putting Gait Retraining into Practice. 1 day preconference course for APTA CSM Mtg, San Antonio, Feb, 2017.
8. Treatment of the Injured Runner: Time to Question your Dogma. 1 day course presented at the University of Minnesota, Minneapolis, MN, Nov. 2016.
9. Innovative Approach to the Injured Runner. 1 day course presented at the University of Rhode Island Distinguished Lecture Series, Kingston, RI, Oct, 2016.
10. Innovative Approach to the Injured Runner. 1 day pre-conference course presented at the JetSetter's Rehab Mtg, Las Vegas, NV, June, 2016
11. Innovative Approach to the Injured Runner. 1 day pre-conference course presented at the FAAOMPT Mtg, Louisville, KY, Oct 2015.
12. Innovative Approach to the Injured Runner. 1 day course presented to University of Illinois-Chicago, Chicaco, IL, June, 2015.
13. Science of Running Medicine. Co-Instructor of 2 day course sponsored by the California Physical Therapy Association, San Francisco, CA, November, 2014.
14. Innovative Approach to the Injured Runner. 2 day course presented to the Aurora Health Care, Milwaukee, WI, October 2014.
15. Innovative Approach to the Injured Runner. 1 day course presented to Johns Hopkins University, January, 2014.
16. Science of Running Medicine. Co-Instructor of 2 day course sponsored by the California Physical Therapy Association, Los Angeles, CA, November, 2013
17. Innovative Approach to the Injured Runner. 2 day course sponsored by MSK+, Vancouver, Canada, November, 2013.
18. Innovative Approach to the Injured Runner. 1 day course presented to the Massachusetts State Annual Physical Therapy Association, November, 2012.
19. Innovative Approach to the Injured Runner. 1 day course presented to the Colorado State Annual Physical Therapy Association, November, 2012.
20. Innovative Approach to the Injured Runner. 1 day course presented to the California State Annual Physical Therapy Association, October, 2012
21. Innovative Approach to the Injured Runner. 2 day course presented to the Louisiana State Annual Physical Therapy Association, October, 2012
22. Innovative Approach to the Injured Runner. 2 day course presented to the Spaulding Outpatient Centers, Boston, MA, May, 2012.
23. Innovative Approach to the Injured Runner. 2 day course sponsored by AthletiCo Physical Therapy, Chicago, IL, March 2012.
24. Innovative Approach to the Injured Runner. 2 day course sponsored by MSK+, Toronto, Canada, November, 2011.
25. Evaluation of the Injured Runner. 1 day course sponsored by the California Physical Therapy Association, Long Beach, CA, September, 2011.
26. Innovative Approach to the Injured Runner. 2 day course sponsored by Drayer Physical Therapy Institute, Hummelstown, PA, June, 2011.
27. Evaluation and Treatment of the Injured Runner. 2 day course sponsored by Swedish Hospital, Seattle, WA, March, 2008.
28. Evaluation and Treatment of the Injured Runner. 2 day course sponsored by Drayer Physical Therapy Institute, Hummelstown, PA in February, 2008.
29. Evaluation of the Injured Runner. 1 day course sponsored by the Maryland Chapter of the American Physical Therapy Association, Baltimore, MD, April, 2007.
30. Biomechanics of the Foot and Ankle. 2 day course sponsored by Drayer Physical Therapy Institute, Hummelstown, PA, January, 2007.
31. Biomechanics of Patellofemoral Disorders. 4 hour course sponsored by the Maryland Chapter of the APTA Meeting, Baltimore, MD, February, 2006.
32. Biomechanics of the Foot and Ankle. 2 day course sponsored by Drayer Physical Therapy Institute, Hummelstown, PA, February, 2004.
33. Biomechanics of the Foot and Ankle. 2 day course sponsored by NovaCare Physical Therapy, Chicago, IL, January, 2004.
34. Biomechanics of the Foot and Ankle. 2 day course sponsored by NovaCare Physical Therapy, Raleigh, NC, September, 2003.
35. Biomechanics of the Foot and Ankle. 2 day course sponsored by NovaCare Physical Therapy, Alexandria, VA, November, 2003.
36. Biomechanic and Orthotic Treatment of the Foot and Ankle - 2 day course sponsored by Joyner Sportsmedicine Institute, Harrisburg, PA, March, 2001.
37. Foot and Ankle Biomechanics and Orthotic Therapy. 2 day course sponsored by NovaCare Physical Therapy, Philadelphia, March, 2000.
38. Course on Orthotics. 2 day course presented to Foot Management, Inc, Ocean City, MD October, 2002.
39. The Lower Kinetic Chain. 2 day course sponsored by Foot Management, Inc, Ocean City, MD October, 1998.
40. Management of the Foot and Lower Extremity. 2 day course sponsored by Foot Management, Inc.Ocean City, MD, October, 1996.

**Grant Activity**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

ACTIVE

1 R01 AG065674-01 (Davis) 07/01/2022 - 06/30/2025 4.2 calendar

NIH $1,984,636

*A Novel Approach to Plantar Fasciitis in the Aging Population (NAPA trial)*

The purpose of this prospective, RCT is to compare the effect of minimal footwear and foot exercise with supportive footwear and orthotics on outcomes in patients with plantar fasciitis. **Score 24, 4%, pending Council review in October.**

W81XWH-20 (Davis) 10/1/2020 – 9/30/2023 3.60 calendar

DOD $1,621,145

*Army Landing Impacts and Injury*

The purpose of this study is to identify characteristics of landing patterns during running, drop landings and ruck marching on the development of musculoskeletal injuries in basic combat recruits.

R15HD104169 (Troy) 09/01/21 - 08/31/24 0.42 calendar

*Biomechanical factors affecting metatarsal fatigue and bone stress injury risk*

The purpose of this study is to determine the structural and biomechanical factors that contribute to bone stress fracture risk.

Rheumatology Research Foundation Scientist Development Award

Corrigan (PI), Role: Collaborator

7/1/21-6/30/23

Asymmetric walking and as risk factors for bilateral knee osteoarthritis

Academy of Orthopaedic Physical Therapy New Investigator Award Corrigan (PI), Role: Collaborator

5/1/21-4/30/23

Influence of unilateral knee pain on contralateral knee loading: implications for the development of bilateral knee pain and osteoarthritis

PENDING

1 R01 AG065674-01 (Davis) 10/01/2022 - 09/30/2025 4.2 calendar

NIH $3,263,254

*Foot Health in Midlife Adults (FHIMA trial)*

The purpose of this prospective, randomized control trial is to compare the effect of minimal footwear with traditional footwear on lower extremity musculoskeletal health in midlife adults. not scored, resubmitting

1 R01 AR079714-01 (Davis) 9/01/2022 - 08/31/2026 3.6 calendar

NIH $2,763,737

*Footstrike, Footwear and Injuries in Runners: A Prospective International Cohort Study*

The purpose of this study is to compare musculoskeletal injuries across cohorts of varying footwear and footstrike patterns. not scored. Resubmitted

COMPLETED

NBA-GE Foundation Davis (PI) 01/01/19 – 12/30/21

$300,000

*The effect of fatigue on landing impacts and bone stress injuries in basketball players*

The purpose of this investigation is to examine the relative contributions of cumulative load, bone quality, sleep, nutrition and fatigue to bone stress injuries in basketball players.

W81XWH-16-1-0652 (Davis Co-I, Bouxsein, PI) 09/01/17 - 08/31/20

DoD $289,497

*Mechanisms underlying stress fracture and the influence of sex and race/ethnicity*

The purpose of this investigation is to examine the relative contributions of underlying skeletal features versus skeletal alignment and gait biomechanics to stress fracture risk.

DoD OR100017 Davis (Co-PI) 10/01/11 - 09/30/16

$19.5 million

*Bridging Advanced Developments towards Exceptional Rehabilitation (BADER)*

The focus of this consortium grant is to improve functional outcomes for the wounded warrior experiencing war-related, blast injuries through the funding of research studies. This also involves developing the infrastructure for research-intensive culture across the four military treatment facilities as well as other clinical and research partners.

DoD OR100017 Davis (PI) 10/01/12 – 9/30/15

$876,274

*Walk to Run Training with Realtime Kinetic Feedback*

The purpose of this study is to improve walking and running gait symmetry in individuals with unilateral transtibial amputations.

DoD W911QY-14-1-0002 Davis (Consultant) 10/01/14 - 4/30/16

$29,651

*Using In-Shoe Real Time Biofeedback to Alter Running Biomechanics*

The purpose of this pilot study is to examine the effects of community real time feedback on strike patterns in healthy runners.

NIH R01HD050679 (PI Davis) June, 2007 – Aug, 2011

$879,616

*Gait Retraining to Reduce Loading in Runners*

The aim of this study is to examine the effect of a gait retraining program using realtime feedback to reduce impact loading (associated with stress fractures) during running. The persistence of these changes are monitored at 1, 6 and 12 months post training.

NIH 1R13HD063283-01 (Davis PI) Dec, 2009 – Nov, 2010

$12,000 (Direct costs)

*Biomechanics in movement science: Building transdomain bridges*

The purpose of this workshop is to develop and prioritize a set of recommendations pertaining to biomechanics and movement science research that is trans-domain and translational in nature.

DOD X81XWH-07-1-0395 (Davis PI) June, 2007 – May, 2010

$200,000

*Effect of Reduced Loading during Running on Tibial Strain Rates: A Modeling Study*

The aim of this study is to examine the effect of reduced impacts during running through gait retraining on tibial strain rates.

DOD W911NF-05-1-0097 (PI Davis) April, 2005 – March, 2006

$230,000

*The Use of an Instrumented Treadmill to Alter Locomotor Patterns*

This instrumentation grant allowed the purchase of an instrumented treadmill in order to begin to explore the ability to alter locomotor patterns

DOD DAMD17-00-1-0515 (PI Davis) July, 2000 – June 2005

$1.05 million

*Biomechanical Factors in the Etiology of Tibial Stress Fractures*

The purpose of this prospective/retrospective study was to understand the biomechanical factors associated with tibial stress fractures.

P20 (PI Buchanan, Co-Investigator Davis) Feb., 2002 – Jan., 2007

$931,815

The Effect of Wedged Foot Orthoses on Lower Extremity Mechanics and Function in Patients with Knee Osteoarthritis

The purpose of this study was to assess the short and longterm effect of wedged foot orthoses on the gait and function of individuals with medial and lateral knee OA.

Other Completed Funded Grants

VibramDavis (PI) 10/01/15 – 03/31/17

$50,000

*Impact Loading in Runners during the Boston Marathon*

The purpose of this investigation is to investigate the role of footwear, footstrike and fatigue on impacts over the course of a marathon.

100% salary support. Joyner Sportsmedicine Institute (1997-2006).

100% salary support Drayer Physical Therapy Institute (2004-2007).

3 Doctoral scholarships ($60,000), Drayer Physical Therapy Institute (2004-present).

A Comparison of Custom and Semicustom Foot Orthotic Devices on Lower Extremity Mechanics and Comfort in High and Low Arched Runners. The Pauline Marshall Research and Education Foundation, $22,000 for one year grant period beginning 2/2004.

A Comparison of Custom and Semicustom Foot Orthotic Devices on Lower Extremity Mechanics and Comfort. The Pauline Marshall Research and Education Foundation, $15,000 for one year grant period beginning 9/2001.

Biomechanical Factors Associated with the Etiology of Stress Fractures in Runners. The Department of the Army. $1.05 million for 5 yr grant period beginning 9/2000.

2 Doctoral Scholarship. $20,000. Joyner Sportsmedicine Institute, 1998, 1999, 2000, 2001; $36,000 for 2002, 2003.

Undergraduate Summer Scholarship. $4,000. Joyner Sportsmedicine Institute, 1997 and 1998, 1999, 2000, 2001.

A Comparison of Four Methods to Obtain a Negative Impression of the Foot, $3,250, Foot Management, Inc, 1998-1999.

The Effect of Different Orthotic Devices on Lower Extremity Mechanics of Rearfoot and Forefoot Strikers**,** $3,500**.** Foot Management, Inc, 1999-2000.

The Effect of the Protonics System on Patellar Alignment and Gait in Patients with Patellofemoral Joint Pain. $18,000. Funded by Inverse Technology, 1998-1999.

Clinical Efficacy of the Protonics System in Patients with Patellofemoral Joint Pain. $3,000. Funded by Inverse Technology, 1998-1999.

A Comparison of Strengthening vs. Orthotics on Pronation and Pronation Velocity. Funded by the Physical Therapy Foundation $60,000, 1993-1995.

Lower Extremity Mechanics and Injury. Funded by the Whitaker Foundation $180,000, 1993-1996.

The Relationship between Subtalar Joint Axis Orientation, Joint Motion and Injuries in Runners. Funded by the Biomedical Research Support Grant. $2550**,** 1992.

The Relationship between Subtalar Joint and Knee Joint Motion in Runners. Funded by the University of Delaware Research Foundation. $16,000, 1990.

A Comparison of Patellofemoral 3-D Kinematics in Runners with and without Patellofemoral Pain. Doctoral Dissertation. Foundation for Physical Therapy. $8500**,** 1988.

**Service**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

University/College/School Committees

Director, Faculty Promotions, Dept of PM&R, Harvard Medical School 2019-2021

Faculty Promotions Committee, Center for Faculty Development, Harvard Med. School 2021-2022

Annual Conference Committee, Center for Faculty Development, Harvard Med. School 2021-2022

Search Committee, Chief of Arthroplasty, Dept. Orthopedics, Harvard Med School 2020-2021

Search Committee, Dir. of Pain Center, Dept. PM&R, Harvard Med. School 2019

Subcommittee of Professors, HMS 2019-2021

Promotions and Reappointment Committee, HMS 2016-2019

Research Accelerator Committee, Dept PM&R 2018-2021

Chair, Promotions Committee, Dept PM&R 2016-2021

Harvard Medical School Professorial Promotion Ad hoc committee member 2014-2021

University of Delaware University Faculty Senate 2004–2006

Biomechanics and Movement Science Program Executive Committee 1994–1996

Biomechanics and Movement Science Program Executive Committee 1994–1996

College of Health Science Research Advisory Committee 2009-2011

Department of Physical Therapy Academic Affairs Committee 1989–2011

Department of Physical Therapy Admissions Committee 1989-2011

Department of Physical Therapy Bylaws Committee 2005-2007

Department of Physical Therapy Retreat Committee 2008

Membership in Scientific/Professional Organizations:

American Society of Biomechanics

Member 1984 - Present

Fellow 2011 - Present

Past-President 2009 - 2010

President 2008 - 2009

President-Elect 2007 - 2008

Program Chair 2005 - 2006

Abstract reviewer 2000

Membership Committee 1997 – 2001

Awards Committee 2008 – 2010

Nominating Committee 2018

American Physical Therapy Association

Catherine Worthingham Fellow 2010 - Present

Member 1990 - Present

Member, Orthopedic Section 1990 - Present

Chairperson of Research Committee,

Foot and Ankle Special Interest 1997 – 2004

Member, Research Section 1990 - Present

Member, Sports Section 2009 - Present

American College of Sports Medicine

Member 1992 - Present

Fellow 2001 - Present

Chair, Biomechanics Interest Group 2008 - 2009

Co-Chair, Biomechanics Interest Group 2005 – 2009

Abstract Reviewer 2009 – Present

Biomechanics Topic Representative/ Program Committee 2010 - 2013

Board of Trustees 2014 - 2017 and 2018-present

Vice President 2018 - 2020

International Task Force Committee 2019 - 2020

Member of Strategic Health Initiative on Youth Sports and Health 2020 - present

Member, National Youth Sports Health & Safety Institute 2020 - present

International Society of Biomechanics

Member 1992 - Present

Scientific Committee for the Third International Symposium

on 3-D Analysis of Human Movement, Stockholm, Sweden, 1994

Consultative and Advisory Positions Held:

Director of Research, Drayer Physical Therapy Institute 2004 - 2013

Director of Research, Joyner Sportsmedicine Institute, 1997 - 2004

Medical Consultant for Runners World 1995 - 2005

Organizing Chair/Committees

Organizing Committee, "International Foot and Ankle Biomechanics Meeting' Sao Paolo, Brazil, April 2021

Organizing Committee, "International Patellofemoral Joint Research Retreat. Milwaukee, WI, October, 2019

Program Committee, “International Foot and Ankle Biomechanics Meeting, NY, NY, April 2018

Organizing Committee, "Patellofemoral Joint Research Retreat. Brisbane Australia, July. 2017

Organizing Committee, "Patellofemoral Joint Research Retreat. Held in Manchester, England, Sept. 2015

Organizing Committee, "Patellofemoral Joint Research Retreat. Held in Vancouver, British Columbia, Sept. 2013

Organizing Committee, "Patellofemoral Joint Research Retreat: Patellofemoral Pain Syndrome: Local, Proximal and Distal Factors". Held in Ghent, Belgium, Aug, 2011

Organizing Chair of the Delaware Priorities Conference: Building Transdomain Bridges to Translational Research in Biomechanics. Held at the University of Delaware, June, 2010

Organizing Chair of the "Patellofemoral Joint Research Retreat: Patellofemoral Pain Syndrome: Local, Proximal and Distal Factors". Held in Baltimore, MD, April, 2009

Organizing Committee, Drayer Physical Therapy Institute National Sports Medicine Mtg, Hilton Head, SC, October 2006

Organizing Committee, Drayer Physical Therapy Institute National Sports Medicine Mtg, Hilton Head, SC, October 2007

Organizing Committee, Drayer Physical Therapy Institute National Sports Medicine Mtg, Hilton Head, SC, October 2008

Organizing Chair for Research Retreat – "Measurement of Foot Motion: Forward and Inverse Dynamic Models", University of Southern California, Los Angeles, CA, April, 2004

Organizing Chair for Research Retreat - "ACL Injuries: The Gender Bias”. Lexington, KY, April 2001

Organizing Chair for Research Retreat - "ACL Injuries: The Gender Bias”. Lexington, KY, April 2003

Organizing Chair for Research Retreat - "ACL Injuries: The Gender Bias”. Lexington, KY, April 2006

Organizing Chair for Research Retreat - "Static and Dynamic Classification of the Foot." Annapolis, MD, May, 2000

Organizing Committee, Joyner Sportsmedicine Institute National Sportsmedicine Conference, Hilton Head, SC (1996-1999)

International PhD External Reviewer

Natalie Collins “Foot Orthoses in Anterior Knee Pain“. University of Queensland, Australia, 2009

Regan Emile Arendse - "The Application of Clinical Gait Analysis to Running Injuries" University of Cape Town, 2005

Jacqueline Alderman "Development of a numerically based lower limb model: Its use in the assessment of patellofemoral pain in female runners". University of Western Australia, 2005

Grant Review Panels

SBIR/STTR Review Panel, NIH, Dec, 2017

SBIR/STTR Review Panel, NIH, June, 2016

Special Panel for Clinical Trial Outcomes Instrument Development Grant Program, NIH, June, 2014

Musculoskeletal Rehabilitation Science (MRS) Study Section Member, NIH, February, 2013

Internal Grant Program, Department of PM&R, Harvard Medical School, January 2012

Musculoskeletal Rehabilitation Science (MRS) Study Section Member, NIH, February, 2010

Grant Review Committee, Orthopedic Section, APTA Research February, 2009

Review panel: Grants for Injury Control Research Centers (ICRC). Center for Disease Controls, Chaired by Keith Kaufman, Atlanta, GA, November, 2009

Study section on Musculoskeletal Modeling, National Institutes for Health, Chaired by Peter Cavanagh, November, 2003

Invited Participant to the “Working Conference on Gait Analysis in Rehabilitation Medicine” National Institutes for Health, September, 1996

Doctoral Research Advisory Committee (grant reviews), American Physical Therapy Association, 1995-1997

Editorial Boards

Medicine and Science in Sport and Exercise (2016-present)

British Journal of Sports Medicine (2010--2021)

International Journal of Prosthetics and Orthotics (2010-2012)

Clinical Biomechanics (1999-2015)

Journal of Orthopedic and Sports Physical Therapy (1996-1997)

Journal of Applied Biomechanics (1997-1999)

Journal Reviewer

Journal of Biomechanics

Medicine and Science in Sports and Exercise

Foot and Ankle, International

Journal of the American Podiatric Medical Association

Journal of Applied Biomechanics

British Journal of Sports Medicine

Journal of Orthopedic and Sports Physical Therapy

Gait and Posture

Community Service:

Cambridge Community Center 2019

Bonic 5K 2018, 2019

Boston Community Trail Clean-up 2017

Boston Food Bank 2013

President, Trustees of Sandwich Beaches 2011 - 2014

Volunteer, Boston Marathon Medical Tent 2011 - present

Breast Cancer Walk 2011

Delaware Blood Bank 1989 – 2011

Sandwich Beach Committee 2009 – 2011

Medical Mission Trip to Haiti (Christian Coalition for Haiti) 2008

Habitat for Humanity 2005, 2009

Newark Food Bank 2007

**Mentorship**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Research Mentorship

Research Mentor Karen Troy Worcester Polytech. Inst. 2010-2020

Research Mentor Karsten Hollander, MD University of Hamburg 2019-2020

Research Mentor Jessica Hunter University of Maryland 2019-2020

Research Mentor Ulyssis Taddeo University of Sao Paolo 2018-2019

Research Mentor Alessandra Matias University of Sao Paolo 2018-2019

Research Mentor Trynstjie Fokkema Erasmus Medical College 2018

Research Mentor Adam Tenforde, MD Harvard Medical School 2015-present

Research Mentor Wiejie Fu, PhD Shanghai Univ of Sport 2016-2017

Research Mentor Diego Silva Federal Univ. of Sao Paolo 2017-2018

Research Mentor Phattarapon Atimetin, MD Harvard Medical School 2013-2015

Research Mentor Joshua Stefanik, PhD Northeastern University 2013-present

Research Mentor Cara Lewis, PhD Boston University 2013-2017

Research Mentor Alexandre Lopes, PhD Universidade Cidade 2013-2014

de São Paulo Research Mentor Roy Cheung Hong Kong Polytech Univ 2011-2012

Research Mentor Margo Orlin, PhD Drexel Univ 2007-2009

Post-doctoral Advisor Lauren Sara Harvard Medical School 2021-present

Post-doctoral Advisor Julie Burland Harvard Medical School 2019-2021

Post-doctoral Advisor Caleb Johnson Harvard Medical School 2018-2021

Post-doctoral Advisor Hannah Rice Harvard Medical School 2014-2015

Post-doctoral Advisor Steven Jamison Harvard Medical School 2013-2017

Post-doctoral Advisor Eveline Graf, PhD Harvard Medical School 2012-2013

Post-doctoral Advisor Michael Rainbow, PhD Harvard Medical School 2011-2014

Post-doctoral Advisor Brad Bowser, PhD Univ. of Delaware 2009-2011

Post-doctoral Advisor Michael Pohl, PhD Univ. of Delaware 2006-2008

Post-doctoral Advisor Clare Milner, PhD Univ. of Delaware 2003-2005

Post-doctoral Advisor Reed Ferber, PhD Univ. of Delaware 2001-2003

PhD Advisor Erin Futrell MGH-IHP 2013-2018

PhD Advisor Allison Altman Univ. of Delaware 2008–2012

PhD Advisor Rebecca Fellin Univ. of Delaware 2007–2011

PhD Advisor Richard Willy Univ. of Delaware 2007–2011

PhD Advisor Joaquin Barrios Univ. of Delaware 2005 – 2009

PhD Advisor Brian Noehren Univ. of Delaware 2005 – 2009

PhD Advisor Philip Crowell Univ. of Delaware 2004 – 2008

PhD Advisor John Willson Univ. of Delaware 2003 – 2007

PhD Advisor Rebecca Zifchock Univ. of Delaware 2003 – 2007

PhD Advisor Tracy Dierks Univ. of Delaware 2001 – 2005

PhD Advisor Robert Butler Univ. of Delaware 2001 – 2005

PhD Advisor Dorsey Williams, III Univ. of Delaware 1996 – 2000

PhD Advisor Kurt Manal Univ. of Delaware 1994 – 1998

PhD Committee Member Richard Brindle Drexel University 2016 - 2018

PhD Committee Member Angela Boynton Univ. of Delaware 2009–present

PhD Committee Member Nicole Chimera Univ. of Delaware 2007 – 2009

PhD Committee Member Katherine Morrison Univ. of Delaware 2007 – 2009

PhD Committee Member Ryan Chang Univ. of Massachusetts 2006 - 2009

PhD Committee Member Chris Maclean Univ. of Massachusetts 2003 - 2006

PhD Committee Member Christine Pollard Univ. of Massachusetts 2002 – 2004

PhD Committee Member Susan Sigward Univ. of Southern California 2002 – 2004

PhD Committee Member Kirsten Buchanan Univ. of Virginia 1999 - 2001

MS Advisor Rebecca Fellin Univ. of Delaware 2006 – 2007

MS Advisor Allison Altman Univ. of Delaware 2007 – 2008

MS Advisor Rachna Gupta Univ. of Delaware 2000 – 2003

MS Advisor Allison Deleo Univ. of Delaware 2001 - 2003

MS Advisor Carrie Laughton Univ. of Delaware 1998 – 2000

MS Committee Member Raghad Al Johani Univ. of Wisconsin 2017- present

MS Committee Member Jeremy Crenshaw Univ. of Delaware 2006 – 2007

MS Committee Member Mike Koenig Univ. of Delaware 2003 – 2004

MS Committee Member Wendy Hurd Univ. of Delaware 2002 - 2003

MS Committee Member David Hudson Univ. of Delaware 1999 – 2000

MS Committee Member Gail Forrester Univ. of Delaware 1997 – 1998

MS Committee Member Kraig Gualtier Univ. of Delaware 1997 - 1998

Research Advisor (UG) Damion Perry Univ. of Massachusetts 2019-2020

Research Advisot (UG) Brian Friscia Univ. of Michigan 2019

Research Advisor (UG) Angela Hidalgo Boston University 2018

Research Advisor (UG) Malia Ellington Harvard University 2017-2018

Research Advisor (UG) Peter Khaw Boston University 2017-2018

Research Advisor (UG) Regine Jaques Boston University 2017-2018

Research Advisor (UG) Daniel Cha Boston University 2016-2017

Research Advisor (UG) Monica Le Boston University 2017

Research Advisor (UG) Pratham Singh Univ. of Guelph 2016

Research Advisor (UG) Benjamin Young Boston University 2015-2016

Research Advisor (UG) Erin Dail Boston University 2015

Research Advisor (UG) Balaji Pandian Harvard University 2015

Research Advisor (UG) Simon Chaput Harvard University 2015

Research Advisor (UG) Andy O’Rourke Harvard University 2015

Research Advisor (UG) Aanchal Raj Harvard University 2015

Research Advisor (UG) Arthur Raiford Harvard University 2014-2015

Research Advisor (UG) Taylor Schmidt Boston University 2014

Research Advisor (UG) Michele Toyloy Boston University 2014-2015

Research Advisor (UG) Ashvin Singh Boston University 2014-2015

Research Advisor (UG) Thaddeus Babiek Boston University 2013-2014

Research Advisor (UG) Zachary Robbiano Boston University 2013-2014

Research Advisor (UG) Talia Simon Harvard Medical School 2013-2014

Research Advisor (UG) Kelvin Wong University of Delaware 2011 – 2012

Research Advisor (UG) Eric Macedo University of Delaware 2010 - 2011

Research Advisor (UG) Robert McGrath University of Delaware 2010 - 2011

Research Advisor (UG) Jillian Salerno University of Delaware 2010 – 2011

Research Advisor (UG) Jessica Rombach University of Delaware 2009

Research Advisor (grad) Tom Splithoff Radboud University 2009

Research Advisor (PhD) Saori Hanaki Drayer Physical Therapy 2005 - 2007

Research Advisor (PhD) Lori Bolgla University of Kentucky 2003 - 2005

Research Advisor (grad) John Willson Drayer Physical Therapy 2001 – 2003

Research Advisor (grad) Bryan Ballantyne Drayer Physical Therapy 2001 – 2003

Research Advisor (DPT) Matt Wescott University of Delaware 2008 - 2010

Research Advisor (DPT) Chris Robson University of Delaware 2007 - 2009

Research Advisor (DPT) Sam Hermes University of Delaware 2005 - 2007

Research Advisor (DPT) Memy Hwang University of Delaware 2005 - 2007

Research Advisor (DPT) Danelle Dixon University of Delaware 2005 - 2006

Research Advisor (UG) Kevin McCoy University of Delaware 2003 - 2007

Research Advisor (UG) Caitlin Cashen University of Delaware 2002 – 2004

Research Advisor (UG) Emily Mika University of Delaware 2002 – 2003

Research Advisor (UG) Michelle Kopp University of Delaware 2001 – 2002

Research Advisor (UG) Malcolm Hughes University of Delaware 2000 – 2001

Research Advisor (UG) Daneille Struys University of Delaware 1998 – 1999

Research Advisor (UG) Brian Matson University of Delaware 1996 – 1998

Research Advisor (UG) Kate Rushton University of Delaware 1997 – 1998

Research Advisor (UG) Kristin Morrison University of Delaware 1997 – 1998

Research Advisor (UG) Nicki Holder University of Delaware 1996 – 1997

Research Advisor (UG) Chris Mrozinski University of Delaware 1996 – 1997

Research Advisor (UG) Cathy Corey University of Delaware 1994– 1996

PT Residency Res. Advisor Anne Capituminom Drayer Physical Therapy 2010

PT Residency Res. Advisor Caitlin Greenstein Drayer Physical Therapy 2010

PT Residency Res. Advisor William Young Drayer Physical Therapy 2009

PT Residency Res. Advisor Ryan Shelton Drayer Physical Therapy 2009

PT Residency Res. Advisor Tammy Fiscus Drayer Physical Therapy 2009

PT Residency Res. Advisor Misty Becker Drayer Physical Therapy 2009

PT Residency Res. Advisor Andrea Brooks Drayer Physical Therapy 2006

PT Residency Res. Advisor Jaleh Zandieh Drayer Physcial Therapy 2005

MD Fellowship Res. Advisor Matthew Mitchkash Harvard Medical School 2018-2109

MD Fellowship Res. Advisor Todd Hayano Harvard Medical School 2017-2018

MD Fellowship Res. Advisor Haylee Donaghe Harvard Medical School 2017-2018

MD Fellowship Res. Advisor Julia Reilly Harvard Medical School 2017-2018

MD Fellowship Res. Advisor Robert Diaz Harvard Medical School 2016-2017

MD Fellowship Res. Advisor Angelie Masarinas Harvard Medical School 2013-2015

MD Fellowship Res. Advisor Greg Sarin Kentucky Sportsmedicine 2002 – 2003

MD Fellowship Res. Advisor Chris Dougherty Kentucky Sportsmedicine 2002 - 2003

MD Fellowship Res. Advisor Ken Tepper Kentucky Sportsmedicine 2001 – 2002

MD Fellowship Res. Advisor Jon LeBlanc Kentucky Sportsmedicine 2001 - 2002

MD Fellowship Res. Advisor Kitty George Kentucky Sportsmedicine 2000 - 2001

MD Fellowship Res. Advisor Darren Leeten Kentucky Sportsmedicine 2000 - 2001

MD Fellowship Res. Advisor John Ellis Kentucky Sportsmedicine 1999 - 2000

MD Fellowship Res. Advisor Susan Ott Kentucky Sportsmedicine 1998 – 1999

MD Fellowship Res. Advisor Vinyat Sahte Kentucky Sportsmedicine 1998 – 1999

Courses Taught (20 yrs at UD)

PHYT 604 Functional Anatomy and Biomechanics (Instructor in Charge).

PHYT 805 Rehabilitation (teach 21 hours: Diabetic foot, foot and lower extremity orthotics.

Prior Mentee Awards

Karen Troy 2021 ASB Founders Award

Roy Cheung 2018 ICMMB Best Paper Award

Cara Lewis 2017 APTA Biomechanics SIG Early Career Award

Brian Noehren 2012 APTA Sports Section Research Award

John Willson 2012 APTA Orthopedic Section Rose Research Award

Margo Orlin 2012 APTA Pediatric Section Research Award

Student Awards

Allison Altman 2012 AMTI Research Award

Allison Altman 2011 American Society of Biomechanics Research Grant

Allison Altman 2010 Biomechanics Interest Group of ACSM Travel Award

Richard Willy 2010 Biomechanics Interest Group of ACSM Research Award

Rebecca Fellin 2010 American College of Sports Medicine Research Grant

Rebecca Fellin 2009 Biomechanics Interest Group of ACSM Research Award

Richard Willy 2010 American Physical Therapy PODS II Award

Richard Willy 2009 American Physical Therapy PODS I Award

Rebecca Fellin 2008 Biomechanics Interest Group of ACSM Travel Award

Brian Noehren 2008 Biomechanics Interest Group of ACSM Research Award

Joaquin Barrios 2008 American Society of Biomechanics Research Grant

Brian Noehren 2008 American College of Sports Medicine Research Grant

Brian Noehren 2008 American Physical Therapy PODS II Award

Richard Willy 2008 American Physical Therapy PODS I Award

Brian Noehren 2007 American Physical Therapy PODS I Award

Joaquin Barrios 2007 American Physical Therapy PODS I Award

Brian Noehren 2006 American Physical Therapy PODS I Award

Joaquin Barrios 2006 American Physical Therapy PODS I Award

John Willson 2004 American Physical Therapy PODS I Award

John Willson 2005 American Physical Therapy PODS I Award

John Willson 2006 American Physical Therapy PODS II Award

Rebecca Zifchock 2006 University of Delaware Competitive Fellowship Award

Rebecca Zifchock 2006 American Society of Biomechanics Research Grant

Rebecca Zifchock 2006 International Society of Biomechanics Research Grant

Robert Butler 2003 International Society of Biomechanics Travel Award

Caitlin Cashen 2004 Undergrad. Student Poster Award, CBER Research Day

Robert Butler 2004 University of Delaware Alumni Award

Robert Butler 2003 American College of Sports Medicine Research Grant

Robert Butler 2004 University of Delaware Competitive Fellowship Award

Robert Butler 2005 Finalist for Nike Award for Athletic Footwear Research