



Foot Pain Expert Witness

CURRICULUM VITAE

CONTACT INFORMATION:

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31 years of clinical experience and surgical board certification. Part-time clinical practice specializing in sports medicine, lower extremity biomechanics and working with high-level athletes. Specialist in post-traumatic gait analysis, including slip and fall injury, motor vehicle injury, and any injury that has affected a plaintiff's ability to walk, run, or perform their usual day to day work or activities. Expert and thought leader with extensive teaching experience in the use and interpretation of pressure mapping for analysis of both walking and running gait. Has presented on-site training, keynotes, webinars, and conference presentations nationally and internationally in North America, England and Australia. Multiple published chapters, posters, journal and trade articles. Experienced expert witness.

PRACTICE HISTORY

October 2011 to present – President / Owner Breakthrough Sports Performance, LLC, DBA Foot Pain Expert Witness (Clinical Sports Medicine, Business, and Expert Witness Consulting)

November 2013 to 2018 – Weil Foot & Ankle Institute, Director of Gait Analysis Studies. Sports Medical Professional Specialized in Treatment of Foot, Ankle, and Movement Disorders

November 1996 to 2013 Owner of Ambulatory Foot Care, Inc. / DBA Breakthrough Podiatry

July 1992 to July 1996 Practiced as an associate with my father Dr. Robert M Williams at Ambulatory Foot Care, Inc.

PROFESSIONAL EXPERT WITNESS CONSULTING

2015-2016 – Client had her foot run over by a party bus with ensuing loss of toes, etc. \$6.3 million dollar settlement.

2017 – Client fell off a public transportation platform and broke her spine and pelvis and femur with significant gait issues.

2018 – Client run over by a bus with degloving of lower leg and ankle fracture.

2018 – Client fell at a mall on poorly marked stairs and had ensuing femoral fracture and subsequent hip and gait issues.

2018 – Client was injured at work site by a jackhammer falling on foot and ankle with ensuing pain and gait issues.

2018 – Client was injured in MVA with subsequent Lis Franc fracture dislocation of foot and low back disc injury leading to a downgrade in his ability to work as a crane operator due to instability in his foot and gait.

2019 – Client was injured on an escalator, had subsequent 5th ray amputation due to injury with ensuing pain and gait issues.

2021 – Client injured in MVA ended up with calcaneal and STJ fracture with significant affects to her active lifestyle, and day to day balance and gait.

2023 - Malpractice case review.

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2023 – Pre-mediation review for MVA ankle fracture leading to chronic ankle arthritis leading to significant gait imbalance.

2023 - Personal injury case involving slip and fall and ankle fracture dislocation.

2023 – Personal injury case involving crush injury to foot from motorcycle MVA.

2023 – Personal injury case involving foot, ankle and knee fractures plus degloving of foot after injury from delivery van.

EDUCATION

1987-1991 - Dr. William M. Scholl College of Podiatric Medicine Early acceptance in 1987, Graduated with both BS in Biology and D.P.M. in 1991

1984-1987 - Valparaiso University Valparaiso, IN 46385 Pre-Med Major – Received early acceptance to Scholl College of Podiatric Medicine

1984 - Boone Grove High School Boone Grove, IN High School Diploma

RESIDENCY

July 1991 thru June 1992 - One Year Podiatric Surgical residency at St. Mary's Medical Center and Merrillville Health Center

SOCIETY MEMBERSHIPS

Past President and Fellow of American Academy of Podiatric Sports Medicine
American Podiatric Medical Association

Indiana and Illinois Podiatric Medical Associations

Journal Article Reviewer for JACFAS and JAPMA

BOARD CERTIFICATION

1999-2029 Diplomate, American Board of Foot and Ankle Surgery, Certified in
Foot Surgery

PROFESSIONAL SPORTS CONSULTANT

Houston Rockets – Individual Player Consulting 2012 & 2014. Team Consulting
2014.

University of Illinois – Individual player consulting 2013-2019

University of Iowa – Individual player consulting 2015-2019,2022

Memphis Grizzlies – Individual Player and Team Consulting 2016 & 2023

Chicago Bulls – Individual Player Consulting 2017

Houston Texans – Individual Player and Team Consulting 2017

Orlando Magic – Individual Player and Team Consulting 2017, 2018, 2019,
2020, 2021, 2022, 2023

Sacramento Kings - Individual Player and Team Consulting 2020

Golden State Warriors – Individual Player Consulting 2021, 2022

Denver Nugget's – Individual Player Consulting 2021, 2022, 2023

Indianapolis Colt's - Individual Player Consulting 2023

PROFESSIONAL BUSINESS CONSULTANT

Hewlett Packard HP Arize Orthotics- Primary Podiatric consultant to HP Arize / Fitstation Platform for 3D printing of clinical and D2C foot orthotics. January 2019 – January 2023.

Tamarack HTI, Inc. – Consultant on marketing and product placement for expansion into the podiatric market for their ENGO and ShearBan blister patches. January 2017 - 2018

Hollister, Inc. – Consultant and researcher testing FastCast OLS total contact casting system. 2014 – 2018

NewmanTech –Makers of Atro XO, exoskeleton leg brace. 2012 - 2018

Tekscan - Makers of the F-Scan in shoe pressure system. www.tekscan.com
2002-2012

AMFIT - Makers of Digital Foot Scanner and CAD/CAM orthotic manufacturing equipment. 2005 - 2012

REFERENCES

Jeffrey Baker, DPM, Weil Foot & Ankle Institute, 939 W North Ave Suite 610, Chicago, IL 60642; Tel: 773-304-6158

Jamie Yakel, DPM, The Colorado Center for Podiatric Sports Medicine, 1551 Professional Lane, Ste. 160, Longmont, CO 80501. Tel: 720-600-3380

Bill Burns, Territory Sales Manager at Bertec, Salem, MA; Tel: 617-901-9731

PUBLICATIONS Scientific Articles, Posters, Book Chapters

1. Dr. Williams Authored the Chapter on ***Football Shoes and Their Relation to Injury*** in: *Athletic Footwear and Orthoses in Sports Medicine / Edition*

- 2 By Matthew B. Werd (Editor). Pub. Date: 2018. Publisher: SpringerVerlag New York, LLC
2. Dr. Williams Authored the Chapter on ***Clinical Gait Evaluation of the Athlete*** in: Athletic Footwear and Orthoses in Sports Medicine / Edition 1 by Matthew B. Werd (Editor), E. Leslie Knight (Editor) Pub. Date: May 2010 Publisher: Springer-Verlag New York, LLC
 3. ***Clinical Uses of In-shoe Pressure Analysis in Podiatric Sports Medicine:*** Bruce E. Williams, D.P.M., James D. Yakel, D.P.M, Journal of the American Podiatric Medical Association • Vol 97 • No 1 • January/February 2007
 4. Williams: ***Influence of Medial and Lateral Placement of Orthotic Wedges***; Foot and Ankle Quarterly, Summer 2006, Vol. 18, No. 2
 5. Williams: ***In-shoe Pressure Analysis in Diabetic Off-loading*** – Audio Lecture; Foot and Ankle Quarterly, Fall 2005, Vol. 17, No. 3
 6. Poster Presentation at American Podiatric Medical Association **Scientific Meeting July 2016, Effectiveness of a Novel Elastic Ankle Exoskeleton Device for the Treatment of Plantar Heel Pain.** Bruce Williams DPM, DABFAS, Adam Fleischer DPM, MPH, FACFAS, Neema Patel BS, Andrew Cheung, Ryan Crews MS, CCRP, Sai Yalla PhD
 7. Poster Presentation at The Symposium on Advanced Wound Care (SAWC) Spring 2016, **Plantar Pressure Distribution Analysis Demonstrates Effective Off-Loading of a Total Contact Cast Design** Brock A. Liden, DPM; Bruce E. Williams, DPM, DABPS; Marta Ostler, PT, Tayeb Hussain, DPM
 8. Poster Presentation American Society of Biomechanics August 2011 in Long Beach, California. **AN IMPROVED METHOD FOR QUANTIFYING THE STIFFNESS OF RUNNING SHOES** Marjorie Ballun, Bruce Williams, Craig M. Goehler, Kathleen Sevener. Department of Mechanical

Engineering, Valparaiso University, Valparaiso, IN, USA, Breakthrough Podiatry, Merrillville, IN, USA

9. Poster Presentation American Society of Biomechanics August 2011 in Long Beach, California. **THE EFFECTS OF SHOE ARCHITECTURE ON IMPACT FORCES DURING GAIT** Stephen Harmon, Bruce Williams, Kathleen Sevener and Craig M. Goehler Department of Mechanical Engineering, Valparaiso University, Valparaiso, IN, USA, Breakthrough Podiatry, Merrillville, IN, USA

TRADE PUBLICATIONS

1. Podiatry Today, October 25, 2018. ***What Can Pressure Mapping Tell Us About Our Orthotic Outcomes?***
2. Podiatry Today, September 27, 2018. ***When Patients Complain About Orthotics Causing Medial Arch Pain***
3. Podiatry Today, August 01, 2018. ***Using Heel Lifts To Combat Limited Ankle Joint Range Of Motion***
4. Podiatry Today, July 03, 2018. ***Pertinent Considerations With Using The Ankle Joint Lunge Test To Assess Ankle Joint ROM***
5. Podiatry Today, June 01, 2018. ***How Ankle Joint Manipulation Affects The Peroneal Tendons And Ankle Range Of Motion***
6. Podiatry Today, May 02, 2018. ***Peroneal Function And Fibular Translation: Assessing Their Impact On The First Ray And Ankle Range***

Of Motion

7. Podiatry Today, April 06, 2018. ***Why 'Cuboid Syndrome' Is A Misnomer***
 8. Podiatry Today, May 2015. ***Point-Counterpoint: Scanner Casting: Is It Better Than Plaster Impression Casting***
 9. Lower Extremity Review, March 2010. ***A Three Point Approach to Testing Running Shoes***
 10. Podiatry Today, January 2010. ***Key Insights on Digital Casting Techniques***
 11. Podiatry Today, September 2008. ***How To Treat Turf Toe Injuries***
 12. Podiatry Management, February 2007. ***High-Tech Evaluation of the Athlete***
 13. Podiatry Management, 2006. ***Amfit Orthotics: A Podiatrist's Perspective***
 14. Podiatry Today, June 2005. ***Can Orthotic Solutions Address the Faulty Biomechanics of Metatarsalgia?*** Primary guest editor.
 15. Podiatry Today, August 2004. Contributed to ***Key Insights on Prescribing Orthoses for Dress Shoes and Sandals.***
 16. Ortho Kinetic Review, March/April 2004. ***In-Shoe Insights:*** pages 30-32.
 17. Podiatry Today Article, April 2003 – Contributed to ***When Orthotics Can Help Treat Low Back Pain***
 18. Podiatry Today Article, Winter 2002. ***Contributed to Ankle Joint Equinus and Manual manipulation techniques.***
 19. Ortho Kinetic Review, Fall, 2002 – ***Choosing an Orthotic Lab***
- PROFESSIONAL LECTURES**

1. September 2021, Toronto OSC 2021 Virtual Conference. Lecture: **Future Trends in Footwear and 3D Printed Orthotics. Segmental Foot and Ankle Function; Physics, the Foot and Pressure Mapping.**
2. March 2019, Staffordshire University Conference on Clinical Biomechanics. Keynote lecture: **Future Trends in Footwear and 3D Printed Orthotics. Lecture: Footwear for Athletes; & How Shoes can Increase or Mitigate Risk in Athletics**
3. November 2018, Samuel Merritt University 4th Motion Analysis Research Center Symposium. Lecture: **Segmental Foot and Ankle Function; Physics, the Foot and Pressure Mapping.** Lecture: **Future Trends in Footwear and 3D Printed Orthotics.**
4. October 2016, Toronto, Ontario. Bioped Conference. **Lecture on Segmental Motions of the Foot and Ankle as They Relate to Lower Extremity Pain and Foot Orthotic Outcomes**
5. May 2016, Philadelphia, PA. Hollister **Presentation on FastCast**
6. May 2016, Bedford, NH. Hollister **Presentation on FastCast**
7. April 2016, Atlanta, GA. SAWC. **Poster presentation and lectures on the use of the FastCast Product for Hollister**

8. March 2016, Carlsbad, CA. Hollister Yearly Sales Meeting. Lecture on **Research on the Hollister FastCast Product.**
9. January 2016, Lake Forest, IL. Rosalind Franklin University Midwinter Meetings. Lecture on **Technologies Use in Biomechanical Gait Analysis**
10. January 2015. Chicago, IL. Rosalind Franklin University Midwinter Meetings. Lecture on **Biomechanical Evaluation and When to Refer: "Biomechanics-collaboration"**
11. November 2014, Munster IN. Workers Compensation Meeting. Lecture on **The Use of Gait Analysis and Custom Foot Orthotics in Injured Workers.**

May 2012 Boston, MA. BSMPG (Boston Sports Medicine & Performance Group) Summer Seminar: Dr. Bruce Williams: **1) Hit the ground running: Appreciating the importance of foot strike in NBA injuries.** Dr. Bruce Williams: Breakout Session: **2) Restoring Gait with evidence based medicine.**

12. October 2011, Chicago, IL. Tekscan users meeting
13. October 2011. Orlando, Florida. American College of Foot and Ankle Orthopedics and Medicine meeting. Lectures on 1) **Pediatric Sports Injuries. Sagittal Plane Biomechanics:** 2) **Using Sagittal Plane Mechanics to optimize Foot Orthotic Outcomes.**
14. June 2010. Phoenix, AZ. Tekscan users meeting

15. June 2010, Ohio State Podiatry Conference. **Sagittal Plane Biomechanics**
16. January 2010, Orlando, Florida. SAM Meetings. **Top 10 Innovations in athletic shoes.**
17. November 6 - 7, 2009. Dr. Williams will be in Orlando, Florida for a Tekscan Users Meeting on **F-Scan and In-Shoe Pressure Evaluation**
18. September 25 - 26, 2009. Dr. Williams will be at the Ohio College of Podiatric Medicine representing the AAPSM
19. July 29 - August 1, 2009, Toronto, Ontario. APMA National Scientific Conference. **1) Workshops and lectures on In-Shoe Pressure Evaluation, as well as a 2) lecture/workshop on "The Mechanics of Athletic Shoe Function and their Effects on Athletic Performance"**
20. June 19, 2009, San Antonio, Texas. National Athletic Trainers Association Meeting . Representing the AAPSM and **lecturing on Athletic shoes and Pediatric Sports Injuries**
21. May 8 - 9, 2009 Seattle, Washington. Tekscan for an F-Scan **Users Meeting on how to interpret In-Shoe Pressure Data**
22. April 24, 2009. California College of Podiatric Medicine on behalf of the AAPSM

23. April 3 - 4, 2009. Midwest Podiatry Conference. **1) Conducting a workshop on evaluating athletic shoes; 2) physical exam workshop on the injured athlete; 3) case studies on injured athletes**
24. March 28, 2009. Visiting the Iowa Podiatry School representing the AAPSM, working with students and local doctors of sports medicine
25. February 21, 2009. The Joint Commission Meeting on Sports Medicine in Kansas City, MO **Topic: How to evaluate a running shoe.** Sponsored by the American Academy of Podiatric Sports Medicine
26. October 4-5, 2008. **Gait Analysis Seminar: Foot Function Analysis Seminar** in Washington DC presented by Tekscan.
27. July 24-26, 2008. Lectures at the APMA National Scientific Meeting in Honolulu, Hawaii
28. June 20, 2008. **Lecturers and workshops** at the NATA meeting in St. Louis, MO
29. April 11-12, 2008. AAPSM Meeting at Barry University in Miami, FL. **1) Lecture on Shoe evaluation and 2) lecture on Back, Hip and Leg Pain in athletes**
30. March 28-29, 2008. Midwest Podiatry Conference –**AAPSM Tract and Shoe Evaluation Lecture**

31. March 6-9, 2008. Joint Commission Meeting in New Orleans, representing AAPSM.
32. November 2-3, 2007, AAPSM meeting with the New York College of Podiatric Medicine - New York, NY. Dr. Williams will be lecturing at this meeting on **1) Learn how to assess an athletic shoe for good stability and motion control -- and 2) How shoes can drastically increase injury rates of athletes.**
33. September 8-9, 2007, San Francisco, CA. Tekscan Users Meeting Dr. Williams speaks on **How to use F-Scan and MatScan to improve your orthotic outcomes.**
34. August 15-18, 2007, Philadelphia, PA. APMA National Convention Dr. Williams speaks on **Gait Analysis for the Athlete**
35. June 30, 2007, Anaheim California. National Athletic Trainer's Association (NATA) meeting. Dr. Williams speaks on **Gait Analysis and the Athlete**
36. May 18, 2007, Vancouver Washington. AMFIT University. Dr. Williams speaks on **How to use AMFIT to better your orthotic outcomes.**
37. April 20-21, 2007, Midwest Podiatry School in Arizona. Meeting with American Academy of Podiatric Sports Medicine. Dr. Williams speaks on **High-tech evaluation of the athlete.**
38. May 12, 2007, Napa Valley California. ProLab Orthotic Seminar

39. March 30, 2007, Chicago, IL. Midwest Podiatry Convention. Dr. Williams speaks on 1) **Functional Hallux Limitus and Athlete's.** 2) **Limb Length difference patterns in Athlete's.**
40. March 25, 2007, Miami, FL. Tekscan Users Seminar. Dr. Williams **How to use F-Scan and MatScan to improve your orthotic outcomes.**
41. November 8-10, 2006, Atlanta, Georgia. Pedorthic Footwear Association National Meeting. AMFIT University. Dr. Williams will be lecturing on **Utilizing AMFIT, and Tekscan's Mat-Scan to improve custom foot orthotic outcomes.**
42. October 15, 2006, Toronto, Ontario, Canada. Ontario Podiatric Medical Association 82nd Annual Conference. Dr. Williams will be lecturing on the **The Use of F-scan.**
43. October 13, 2006, Toronto, Canada. Ontario Podiatric Medicine Academy Conference. Lecture on 1) **Gait Patterns Associated with Limb Length Differences.** 2) **Lecture on Hi-Tech Evaluation of the Athlete**
44. September 15-16, 2006, Oakland, California. AAPSM Sports Medicine Conference. California College of Podiatric Medicine. **Integrating technology into a sports medicine practice.** Workshops will be available including **Utilizing Matscan and AMFIT technology into sports medicine practices.**
45. September 8-9, 2006, Vancouver, Washington. AMFIT University. Lecture on **"Foot Orthotics for Fun and Profit".**

46. August 8, 2006, Las Vegas, Nevada. APMA National Convention **1) High Tech Evaluation of the Athlete. 2) Computer Assisted Gait Evaluation** Sponsor: AAPSM
47. August 7, 2006, Las Vegas, Nevada. American Academy of Podiatry Sports Medicine Board Meeting and Annual Membership Meeting. Dr. Williams becomes Vice President of the Academy. **Dr. Williams presents a workshop on "Gait Analysis Evaluation of the Athlete"**.
48. June 10-11, 2006, Cleveland, Ohio Tekscan Users Meeting
49. March 2006. Los Angeles, California Tekscan Users Meeting. Sponsor: Tekscan
50. February, March, June 2006. **Webinars on Billing for Gait Analysis 2006** Sponsor: Tekscan
51. November 2005 Melbourne, Australia. Biomechanics Boot Camp, LaTrobe University. **Functional Hallux Limitus Does Exist. Limb Length Difference Gait Patterns** Sponsor: Tekscan
52. October 2005 Indianapolis, Indiana. PFA. **Using In-Shoe Pressure Systems to Improve Orthotic Outcomes.** Sponsor: Tekscan
53. October 2005 PFOLA. **Limb Length Differences and Gait Patterns.** Sponsor: Tekscan
54. October 2005. Scholl College of Podiatric Medicine Sports Medicine Seminar AAPSM. **1)Functional Hallux Limitus and Sports Medicine,**

2) Workshop on Technology and the Athlete Sponsor: AAPSM

55. August 2005, Orlando, FL. American Podiatric Medical Association Scientific Meeting. **1) Lecture on Gait Analysis. 2) Lecture on In-shoe Pressure Analysis. 3) Lecture on Manipulation of the Foot and Ankle**
56. June 2005, Indianapolis, IN. National Athletic Trainer's Association Meeting **Presentation of the Athletic Trainer of the Year Award from the AAPSM.**
57. May 2005, Columbus, OH. Ohio Orthotist and Prosthetist Meeting. **1) Limb Length Difference and Gait Patterns. 2) F-scan and the biomechanics of Functional Hallux Limitus.**
58. April 2005, Chicago, IL. Midwest Podiatry Conference. **Limb Length Difference and Gait Patterns**
59. March 2005, Phoenix, AZ. Southwestern Foot and Ankle Symposium. **1) Limb Length Difference and Gait Patterns. 2) F-scan and the biomechanics of Functional Hallux Limitus.**
60. March 2005 Orlando, FL. American Academy of Orthotists and Prosthetists. **The Best of Both Worlds: Utilizing F-Scan In-Shoe Pressure System with AMFIT Digital Foot Scanner.**
61. PFOLA November, Boston, MA. November 2004 **Using In-shoe Pressure Systems to Improve Orthotic Outcomes.** Sponsor Tekscan.

62. Boston, MA. August 2004 - American Podiatric Medical Association National Meeting. **Functional Hallux Limitus and orthotic modifications.** Sponsor Tekscan.
63. Los Angeles, California June 2004 - The Western Podiatry Conference. Sponsor Tekscan. **1) Limb Length Difference and Gait Patterns. 2) Fscan and the biomechanics of Functional Hallux Limitus**
64. June 2004 Indianapolis, Indiana - American College of Sports Medicine. **Lecture on Using F-scan In-Shoe Pressure System to Improve Orthotic Outcomes.** Sponsor Tekscan.
65. March 2004, Montreal Canada. International Podiatry Conference. **Workshop on Improving Orthotic Outcomes Utilizing In-Shoe Pressure Data.** Sponsor – Tekscan.
66. March 2004 - Super Seminar, Sponsor Tekscan. Las Vegas, NV. **Using Fscan to improve diabetic orthotic outcomes.**
67. December 2003 - Prescription Foot Orthotic Laboratory Association, Las Vegas NV. **Workshops on Improving Orthotic Outcomes Utilizing Inshoe Pressure Data.** Sponsor Tekscan.
68. November 2003 American Academy of Podiatric Sports Medicine at

OCPM. Improving Orthotic Outcomes Utilizing In-shoe Pressure Data - Sponsor Tekscan.

69. November 2003, Dallas, TX PFA. **Increasing Outcomes of Foot Orthotics.** Sponsors, Tekscan and AMFIT
70. October 2003 Indiana Podiatric Medical Association. **Improving Orthotic Outcomes Utilizing In-Shoe Pressure Data,** Sponsor Tekscan.
71. October 2003, California College of Podiatric Medicine. Lecture to Students - **Improving Orthotic Outcomes Utilizing In-Shoe Pressure Data**
72. June 2003, Chicago, Illinois. AMFIT University, **Lecture on Computerized Gait Analysis.** www.amfit.com
73. San Francisco, California, May 2003. American College of Sports Medicine. Sponsored by AAPSM, **1) Workshop on Proper Casting Techniques for Foot Orthotics and 2) presentation on Computerized Gait Analysis.**
74. Oakland, California. March 2003. California College of Podiatric Medicine. **Lecture and Workshop on Computerized Gait Analysis.**
75. Cleveland, Ohio March 2003. No-Nonsense Seminar, **Workshop on Computerized Gait Analysis.**

76. August 2002, Seattle, Washington. American Podiatric Medical Association National Meeting. – **Gait Analysis Workshop Lecture**

EXPERT NOT RETAINED