
**Curriculum Vitae:
Stefania Fatone, Ph.D.**

6236 N Broadway St, Apt. 3, Chicago IL 60660, USA.
Phone: +1 (312) 238 6538 (BH), +1 (773) 262 4016 (AH)
Email: s-fatone@northwestern.edu

Current Position

Dec 2003-present Research Assistant Professor, Northwestern University Feinberg School of Medicine, Chicago, IL, USA.
Research Associate, Northwestern University Prosthetics Research Laboratory and Rehabilitation Engineering Research Program, Chicago, IL, USA.
Faculty, Northwestern University Prosthetics-Orthotics Center, Chicago, IL, USA.

Education and Training

Sept 2000-Dec 2003 Post-doctoral Fellow, Prosthetics Research Laboratory and Rehabilitation Engineering Research Program, Chicago, USA.
Mar 1996-Sept 2000 Doctor of Philosophy, La Trobe University, Melbourne, Australia.
Ph.D. Thesis: Gait Biomechanics and Prosthetic Management of Children with Proximal Femoral Focal Deficiency (PFFD).
1992-1995 Bachelor of Prosthetics and Orthotics (Honours), La Trobe University, Melbourne, Australia.
Honours Thesis: Biomechanical Analysis of the Gait of Children with Proximal Femoral Focal Deficiency (PFFD). Advisor: Timothy Bach, Ph.D.

Employment History

Aug-Dec, 2004 Orthotics Instructor, Northwestern University Prosthetic-Orthotic Center, Chicago, IL, USA.
Aug-Oct, 2000 Casual Administrative Officer, La Trobe University Postgraduate Association, Melbourne, Australia.
1999-2000 Associate Lecturer (0.2 position), National Centre for Prosthetics and Orthotics, School of Human Biosciences, La Trobe University, Melbourne, Australia.
1995-2000 Tutor and Lecturer (sessional), School of Human Biosciences, La Trobe University, Melbourne, Australia.
May-July, 1999 Casual Administrative Officer, La Trobe University Postgraduate Association, Melbourne, Australia.
1997-1999 Orthotist (0.2 position), Royal Children's Hospital, Melbourne, Australia.
1997-1999 Research Assistant (part-time), Royal Children's Hospital, Melbourne, Australia.
1996-1997 Casual Youth Support Worker, Interchange Northwest Region, Melbourne, Australia.
March, 1996 Sales Representative, Puglia Cheese (Australia) Pty. Ltd., Melbourne, Australia.
1995-1996 Attendant Care (part-time), MECWA-Redicare, Melbourne, Australia.
April-May, 1995 Locum Prosthetist, Caulfield General Medical Centre, Melbourne, Australia.
1991-1995 Clerical Assistant (part-time), Puglia Cheese (Australia) Pty. Ltd., Melbourne, Australia.
1989-1990 Sales Assistant (part-time), Waldron's Junior Uniform Stores, Melbourne, Australia.

Professional Associations

- 2007-present American Academy of Orthotists and Prosthetists, Midwest Chapter (Member).
2007-present American Academy of Orthotists and Prosthetists (Honorary Member).
1995-2002 International Society for Prosthetics and Orthotics (Australian National Member Society).
1995-1999 Australian Orthotic and Prosthetic Association.

Grants

- 2008-2013 NIDRR, US Department of Education Grant # H133E080009 for the "RERC for Prosthetics and Orthotics." Co-Principal Investigator. \$4,750,000, 5 years.
2006-2009 US Department of Veterans Affairs Merit Review #A4325R for "Effects of Prosthetic Foot Rocker Radius on Gait of Prosthesis Users." Research Prosthetist. \$560,342, 3 years.
2006-2009 US Department of Veterans Affairs Merit Review #BR314R for "Effect of Spine Surgery on Energy Expenditure of Walking." Co-investigator/Project Leader. \$276,723, 3 years.
2005-2008 US Department of Veterans Affairs Merit Review #A3573R for "An Investigation of Ankle Joints for Ankle Foot Orthoses (AFOs)." Co-investigator/Project Leader. \$496,896, 3 years.
2003-2008 NIDRR, US Department of Education Grant # H133E030030 for the "RERC in Prosthetics and Orthotics." Co-Investigator. \$4,750,000, 5 years.
2001-2004 US Department of Veterans Affairs Special Solicitation Grant #A26761 for "An Investigation of Foot Alignment and Support in Ankle Foot Orthoses (AFOs)." Co-investigator/Project Leader. \$426,279, 3 years.

Awards and Honors

- 2010 Finalist, Howard R. Thranhardt Lecture Award. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 24-27, Chicago IL. Presentation title: Randomized cross-over study of AFO ankle components in adults with post-stroke hemiplegia.
2009 Best of the Resident Directed Studies, American Academy of Orthotists and Prosthetists. Paper title: Comparison of Silicone and Posterior Leaf Spring Ankle-Foot Orthoses in a Subject with Charcot-Marie-Tooth (Del Bianco J.).
2009 Finalist, Howard R. Thranhardt Lecture Award. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 4-7, Atlanta, GA. Presentation title: Dynamic analyses of the gait of RGO users.
2008 Certificate of Appreciation for outstanding performance and lasting contributions to the American Academy of Orthotists and Prosthetists, February 28, 2008.
2007 Honorary Membership, American Academy of Orthotists and Prosthetists. Presented at the Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 21-24, San Francisco, CA.
2006 Recipient, Howard R. Thranhardt Lecture Award. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 1-4, Chicago, IL. Presentation titled: Effect of an Ankle Foot Orthosis on Roll-over Shape in People with Hemiplegia.
2003 Awarded the 'red ribbon' for outstanding poster. Congress of Neurological Surgeons, 53rd Annual Meeting, October 18-23, Denver, Colorado, USA. Poster titled:

	Development of An Advanced Biomechanical Spine Model to Assess the Effect of Surgical Stabilization and Alignment on Gait.
2000	E.H. Armstrong Award for Services to Lower Limb Amputees, La Trobe University, Melbourne, Australia.
1996-1999	The Ray McKernan Studentship for Orthotic and Prosthetic Biomechanical Research, Royal Children's Hospital, Melbourne, Australia.
1995	D.M. Myer University Medal, La Trobe University, Melbourne, Australia.
1995	Hans Georg Nader Prize for Most Outstanding Prosthetics and Orthotics Honours Student, La Trobe University, Melbourne, Australia.

Publications and Presentations

Book Chapters

1. Fatone S. (2008) Ch. 31. Orthotic Management in Stroke. In: Stein, J., Harvey, R.L., Macko, R.F., Winstein, C.J. and Zorowitz, R.D. (eds.) *Stroke Recovery and Rehabilitation*. Demos Publishing. p. 515-530.
2. Fatone S. (April 14, 2006) Orthotics. In: Akay M. (ed.), *Wiley Encyclopedia of Biomedical Engineering*, 6 Volume Set. Hoboken, N.J.: John Wiley & Sons, Inc.
3. Gard S.A. and Fatone S. (2005) Biomechanics of Lower Limb Function and Gait. In: Martina, J.D. and Geertzen, J.H.B. (eds.), *Orthotic Management and Related Therapies after Stroke*. Groningen, The Netherlands: International Society for Prosthetics and Orthotics.
4. Gard S.A. and Fatone S. (2004) Biomechanics of lower limb function and gait. In: E. Condie, J. Campbell and Martina, J.D. (eds.), *Report of a Consensus Conference on the Orthotic Management of Stroke Patients*. Copenhagen, Denmark: International Society for Prosthetics and Orthotics, pp. 55-63.

Journal Articles

Peer Reviewed

1. Fatone S., Sorci E. and Hansen A. (2009) Effects of Clinically Prescribed Ankle Foot Orthoses on Ankle-Foot Roll-over Shapes: a Case Series. *Journal of Prosthetics and Orthotics*, 21(4):196-203.
2. Johnson W.B., Fatone, S. and Gard, S.A. (2009) Dynamic Analyses of the Gait of RGO Users. *Journal of Rehabilitation Research and Development*, 46(3):435-446.
3. Fatone S., Gard S. and Malas B. (2009) Effect of Ankle Foot Orthosis Alignment and Foot-Plate Length on Knee Kinematics and Kinetics in People with Hemiplegia. *Archives of Physical Medicine and Rehabilitation*, 90(5):810-818.
4. Del Bianco J. and Fatone S. (2008) Comparison of Silicone and Posterior Leaf Spring Ankle-Foot Orthoses in a Subject with Charcot-Marie-Tooth. *Journal of Prosthetics and Orthotics* 20(4):155-162.
5. Dillon M., Hansen A. and Fatone, S. (2008) Influence of marker models on ankle kinematics in persons with partial foot amputation: an investigation using a mechanical model. *Journal of Rehabilitation Research & Development*, 45(4):567-576.
6. Saha D., Gard S. and Fatone S. (2008) The Effect of Trunk Flexion on Able-bodied Gait. *Gait & Posture*, 27(4):653-660.
7. Zissimopoulos A., Fatone S. and Gard S. (2007) The Biomechanical and Energetic Effects of a Stance-Control Orthotic Knee Joint. *Journal of Rehabilitation Research & Development*, 44(4):503-514.
8. Saha D., Gard S., Fatone S. and Ondra S. (2007) The Effect of Trunk-flexed Postures on Balance and Metabolic Energy Expenditure During Standing. *Spine* 32(15):1605-1611.

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9. Fatone S. and Hansen A. (2007) Effect of an Ankle Foot Orthosis on Roll-over Shape in Adults with Hemiplegia. *Journal of Rehabilitation Research & Development*, 44(1):11-20.
 10. Fatone S. and Hansen A.H. (2007) Effect of Ankle Joint Misalignment on Calf Band Movement in Ankle-Foot Orthoses. *Prosthetics Orthotics International*, 31(1):76-87.
 11. Konz R., Fatone S., Stine R., Ganju A., Gard S. and Ondra S. (2006) A Kinematic Model to Assess Spinal Motion During Walking. *Spine*, 31(24):E898-E906.
 12. Konz R., Fatone S. and Gard S. (2006) The Effect of Restricted Spinal Motion on Gait. *Journal of Rehabilitation Research & Development*, 43(2):161-170.
 13. Boyd R.N., Fatone S., Olesch C., Rodda J., Cullis E., Starr R., Natrass G.R. and Graham H.K. (1999) High or low technology measurements of energy expenditure in clinical gait analysis. *Developmental Medicine and Child Neurology*, 41(10):676-682.

Non Peer Reviewed

1. Dillon M., Fatone S. and Hodge MC. (2007) Biomechanics of Ambulation after Partial Foot Amputation: A Systematic Literature Review. Proceedings of the American Academy of Orthotists and Prosthetists State of the Science Conference 8: Biomechanics of Partial Foot Amputation, March 3-4, 2007, Chicago, IL. *Journal of Prosthetics and Orthotics*, 19(8 Proceedings):P2-P61.
2. Fatone S. (2006) A Review of the Literature Pertaining to KAFOs and HKAFOs for Ambulation. Proceedings of the American Academy of Orthotists and Prosthetists State of the Science Conference 7: Knee-Ankle-Foot Orthoses for Ambulation, February 11-12, 2006, Chicago, IL. *Journal of Prosthetics and Orthotics*, 18(3S):137-168.
3. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1996) Gait Biomechanics of the Hip and Pelvis in Children with Proximal Femoral Focal Deficiency. *Prosthetics and Orthotics Australia*, 12(3):14-29.

Other Publications

1. Dillon M. and Fatone S. (in press) Evidence Note: Biomechanics of Ambulation after Partial Foot Amputation. Washington DC: American Academy of Orthotists and Prosthetists.
2. Fatone S. (in press) Evidence Note: Use of KAFOs and HKAFOs for Ambulation. Washington DC: American Academy of Orthotists and Prosthetists.
3. Fatone S. (September 2009) Best Available Evidence for the Lower-Limb Orthotic Management of Stroke. Lower Extremity Review.
4. Fatone S. and Campbell J.H. (November, 2008) Evidence Note No. 1: The Use of Ankle Foot Orthoses in the Management of Stroke. ©American Orthotic and Prosthetic Association, Orthotic and Prosthetic Outcomes Initiative Steering Committee, Orthotic Management of Stroke Workgroup.
5. Hansen A.H., Dillon, M.P. and Fatone, S. (2008) Model Simulations of Partial Foot Amputation Gait While Wearing Shoes or Below-Ankle Devices with Respect to Marker Placement and Increased Dorsiflexion. *Capabilities*, 16(2):1-4. Northwestern University, Chicago, IL.
6. Fatone S. (2007) Studies of the Biomechanics of Gait of Persons with Partial Foot Amputation. *Capabilities*, 15(3):3-4. Northwestern University, Chicago, IL.
7. Zissimopoulos A., Fatone S. and Gard S. (2007) Stance-Control Knee Ankle Foot Orthoses. *Capabilities*, 15(2):1-2. Northwestern University, Chicago, IL.
8. Fatone S. and Gard S.A. (Eds.) (2007) 'P&O Research: Are We Addressing Clinically-Relevant Problems?' Report on the State-of-the-Science Meeting in Prosthetics and Orthotics, February 28, 2006. Northwestern University Rehabilitation Engineering Research Center in Prosthetics and Orthotics, Feinberg School of Medicine, Northwestern University, Chicago, IL.

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9. Johnson B. and Fatone S. (2006) Dynamic Analysis of an ARGO User. *The Academy Today*, August, 2(3):A10-A11. Supplement of *The O&P Edge*. American Academy of Orthotists and Prosthetists, Alexandria, VA.
 10. Fatone S. (2006) Results of NU Online Survey and Forum on Prosthetics and Orthotics Research. *Capabilities*, 14(3):4-6. Northwestern University, Chicago, IL.
 11. Fatone S. (2005) AFO study draws to a close: An investigation of the effect on gait of ankle alignment and foot-plate length. *Capabilities*, 13(1):6-12. Northwestern University, Chicago, IL.
 12. Fatone S. and Edwards M. (2005) Contributors to Michael J. and Smith D. (Eds.) Advanced Education & Research Training Initiative [AERTI]: Prosthetic-Orthotic Strategic Plan for a Ten-Fold Increase in the Academic and Research Capacity of the Profession. Report, American Academy of Orthotists and Prosthetists, Alexandria, VA.
 13. Fatone S. and Gard S. (Eds.) (2004) American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, November 1-4, Chicago, IL.
 14. Fatone S. and Gard S. (Eds.) (2003) American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 19-21, Chicago, IL.
 15. Fatone S. and Childress D.S. (Eds.) (2003) Report on the State-of-the-Science Meeting in Prosthetics and Orthotics, May 17-18, 2003. Northwestern University Rehabilitation Engineering Research Center in Prosthetics and Orthotics, Feinberg School of Medicine, Northwestern University, Chicago, IL.
 16. Fatone S. (2003) Research Projects Place New Emphasis on Orthotics. *Capabilities*, 11(4): 12-13. Northwestern University, Chicago, IL.
 17. Fatone S. (2003) Gait Biomechanics and Prosthetic Management of Children with Proximal Femoral Focal Deficiency (PFFD). *ACPOC Newsletter*, Spring, 9(1):5,6,8-10,13. Association of Children's Prosthetic Orthotic Clinics, Rosemont, IL. Reprinted from *Capabilities*.
 18. Fatone S. (2002) NUPRL & RERP Hosts Gait Course. *Capabilities*, 11(3):11. Northwestern University, Chicago, IL.
 19. Fatone S. (2002) Gait Biomechanics and Prosthetic Management of Children with Proximal Femoral Focal Deficiency (PFFD). *Capabilities*, 11(2):1-2,6-7,9. Northwestern University, Chicago, IL.
 20. Fatone S. and Gard S. (2002) Terry Karpowicz Continues to Contribute with Participation in NUPRL & RERP Gait Studies. *Capabilities*, 11(1):5,15. Northwestern University, Chicago, IL.
 21. Fatone S. and Gard S. (Eds.) (2001) American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 27-29, Chicago, IL.
 22. Fatone S., Malas B. and Gard S. (2001) NUPRL & RERP Launches New Orthotic Research. *Capabilities*, 10(4):1-3,9,11. Northwestern University, Chicago, IL.
 23. Fatone S. (2000) Gait Biomechanics and Prosthetic Management of Children with Proximal Femoral Focal Deficiency (PFFD). Thesis Abstract. Australian and New Zealand Society of Biomechanics, Newsletter, 5(1): 6.
 24. Fatone S. (Editor) (2000) La Trobe University Postgraduate Association Annual Report. La Trobe University, Melbourne, Australia.
 25. Fatone S. and Hodge M. (2000) Guidelines for Clinical Education 2000-2001. Second Edition. National Centre for Prosthetics and Orthotics, Melbourne, Australia.
 26. Fatone S. (2000) Useful Postgraduate Reference Books. In: Kraal D. (Editor) Postgraduate Handbook 2000. La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.

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27. Fatone S. and Hodge M. (1999) Guidelines for Clinical Education 2000. First Edition. National Centre for Prosthetics and Orthotics, Melbourne, Australia.
 28. Fatone S. (Editor) (1999) The Post. July, Issue 5. Newsletter of the La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.
 29. Belfrage J. and Fatone S. (1999) Thesis Examination Process. In: Ghaffurian M. (Editor) Postgraduate Handbook. La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.
 30. Fatone S. (Editor) (1998) The Post. November, Issue 4. Newsletter of the La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.
 31. Fatone S. (Editor) (1998) The Post. July, Issue 3. Newsletter of the La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.
 32. Bach T.M., Hodge M.C., Fatone S., Ford N. and Boyd R. (Editors) (1997) Proceedings of the International Society for Prosthetics and Orthotics, Annual Scientific Meeting, 20-22 November, Melbourne, Australia.
 33. Fatone S. (1997) Tickling the Soft Underbelly of Big Brother. The Post, 2:12. Newsletter of the La Trobe University Postgraduate Association, La Trobe University, Melbourne, Australia.

Conference Proceedings

1. Robinson C., Fatone S., Gard S. (2010) The Role of Journal Club for Professional Development: Facilitating Knowledge Translation. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 24-27, Chicago, IL.
2. Hansen A., Klodd E., Meier M., Fatone S., Edwards M., Sessoms P., Childress, D. (2010) Use of experimental prosthetic feet to study effects of forefoot flexibility and effective keel length on gait of prosthesis users. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 24-27, Chicago, IL.
3. Fatone S., Stine R. and Gard S. (2010) Randomized cross-over study of AFO ankle components in adults with post-stroke hemiplegia. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 24-27, Chicago, IL. (**Finalist, Howard R. Thranhardt Lecture Award.**)
4. Ruhe B., Fatone S. and Caldwell R. (2009) Gait Kinematics and Kinetics with Subischial Assisted Vacuum Sockets: Case Studies of Persons with Transfemoral Amputation. In: Experiences with Vacuum Socket Systems. American Orthotic and Prosthetic Association Annual Assembly, September 20-23, Seattle, WA.
5. Fatone S., Gard S. and Stine R. (2009) Randomized cross-over study of AFO ankle components in adults with post-stroke hemiparesis: preliminary results. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 4-7, Atlanta, GA.
6. Johnson W.B., Fatone S. and Gard S.A. (2009) Dynamic analyses of the gait of RGO users. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 4-7, Atlanta, GA. (**Finalist, Howard R. Thranhardt Lecture Award.**)
7. Dillon M., Hansen A.H., and Fatone S. (2008) Influence of Marker Models on Measured Dorsiflexion in Partial Foot Amputee Gait. 31st Annual Scientific Meeting of the International Society for Prosthetics and Orthotics, Australian National Member Society, November 20-22, Glenelg, SA, Australia.
8. Hansen A., Dillon M. and Fatone S. (2008) Source of Increased Dorsiflexion During Gait of Persons with Partial Foot Amputations when Shod or in 'Below-Ankle' Devices. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.

9. Sessoms P., Fatone S. and Hansen A. (2008) Case Study: Gait Analyses of Persons with Partial Foot Amputation Walking Barefoot and With Dorsiflexion Stop Ankle Foot Orthoses. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.
10. Del Bianco J. and Fatone S. (2008) A Functional Comparison Between Silicone Ankle-Foot Orthoses (SAFOs) and Posterior Leaf Spring Ankle-Foot Orthoses (PLS-AFOs) Using Gait Analysis in a Subject with Charcot-Marie-Tooth Disorder. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.
11. Fatone S. (2008) A Review of Functional Analyses of Van Nes Rotationplasty in the Treatment of PFFD and Osteosarcoma. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.
12. Fatone S., Gard S. and Malas B. (2007) Effect of AFO Alignment on Plantar Pressures During Walking in Adults With Hemiplegia. 12th World Congress of the International Society for Prosthetics and Orthotics, July 29 to August 30, Vancouver, BC, Canada.
13. Fatone S., Gard S. and Malas B. (2007) Effect of Ankle Foot Orthosis (AFO) foot plate length on plantar pressures in adults with hemiplegia. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 21-24, San Francisco, CA.
14. Zissimopoulos A., Fatone S. and Gard S. (2007) The Biomechanical and Energetic Effects of a Stance-Control Orthotic Knee Joint. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 21-24, San Francisco, CA.
15. Saha D., Gard S. and Fatone S. (2006) Vertical Ground Reaction Force During Trunk-flexed Gait. American Society of Biomechanics, September 6-9, Blacksburg, VA.
16. Fatone S. and Hansen A. (2006) A Geometric Model to Predict the Effect of Ankle Joint Misalignment on Calf Band Movement in an Ankle Foot Orthosis. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 1-4, Chicago, IL.
17. Fatone S. and Hansen A. (2006) Effect of Ankle Foot Orthosis on Roll-over Shape in People with Hemiplegia. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 1-4, Chicago, Illinois. (**Recipient, Howard R. Thranhardt Lecture Award**).
18. Fatone S., Hansen A.H., Gard S.A., Malas B.S. (2005) Effects on Gait of Ankle Alignment and Foot-Plate Length in Ankle Foot Orthoses (AFOs). American Academy of Orthotists and Prosthetists, Annual Meeting, March 16-19, Orlando, FL.
19. Konz R.J., Fatone S. and Gard S.A. (2005) The Effect of a Thoraco-Lumbo-Sacral Orthosis on Gait. American Academy of Orthotists and Prosthetists, Annual Meeting, March 16-19, Orlando, FL.
20. Fatone S., Hansen, A.H., Gard S.A. and Malas B.S. (2004) The Effect of Ankle Foot Orthosis Alignment on the Knee During Gait in Post-Stroke Hemiplegia. International Society for Prosthetics and Orthotics, 11th World Congress, August 1-6, Wanchai, Hong Kong, China.
21. Konz R., Fatone S. and Gard S.A. (2004) The Effect of Thoraco-Lumbo-Sacral Orthoses on Gait. International Society for Prosthetics and Orthotics, 11th World Congress, August 1-6, Wanchai, Hong Kong, China.
22. Fatone S., Hansen, A.H., Gard S.A. and Malas B.S. (2004) An Investigation of Alignment and Support in Ankle Foot Orthoses (AFOs). **Invited Speaker**, American Academy of Orthotists and Prosthetists, Midwest Chapter Spring Meeting, June 3-5, Milwaukee, Wisconsin.
23. Fatone S., Gard S.A., Childress D.S. and Malas B. (2004) An Investigation of Foot Alignment and Support in Ankle Foot Orthoses (AFOs). Gait and Clinical Movement Analysis Society, 9th Annual Meeting, April 21-24, Lexington, Kentucky.
24. Fatone S., Gard S.A., Childress D.S. and Malas B. (2003) An Investigation of Foot Alignment and Support in Ankle Foot Orthoses (AFOs). American Congress of Rehabilitation Medicine, October 23-26, Tucson, Arizona. *Archives of Physical Medicine and Rehabilitation*, 84(10): A1-A12. www.archives-pmr.org and *Neurorehabilitation and Neural Repair*, 17(4).

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25. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (2002) Characteristics of PFFD Gait: Pelvic and Hip Biomechanics. Association of Children's Prosthetic-Orthotic Clinics, Annual Meeting, April 10-13, Toronto, Ontario, Canada.
 26. Fatone S. (1999) Gait biomechanics and prosthetic management of children with Proximal Femoral Focal Deficiency (PFFD). **Invited Speaker**, International Society for Prosthetics and Orthotics, Annual Scientific Meeting, November 4-6, Hobart, Australia.
 27. Bach T.M., Fatone S. and Graham H.K. (1998) Comparison of models of hip joint centre location in normals and children with PFFD. International Society for Prosthetics and Orthotics, Annual Scientific Meeting, August 28-29, Sydney, Australia.
 28. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1998) Effect of prosthetic socket design on pelvis and hip kinematics in children with PFFD. International Society for Prosthetics and Orthotics, Annual Scientific Meeting, August 28-29, Sydney, Australia.
 29. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1998) Pre- and post-operative gait analysis of tibial rotationplasty for PFFD. International Society for Prosthetics and Orthotics, Annual Scientific Meeting, August 28-29, Sydney, Australia.
 30. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1998) Effects of prosthetic socket design on pelvis and hip kinematics in children with PFFD. International Society for Prosthetics and Orthotics, Ninth World Congress, 28 June to 3 July, Amsterdam, The Netherlands.
 31. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1998) Pre- and post-operative gait analysis of tibial rotationplasty for PFFD. International Society for Prosthetics and Orthotics, Ninth World Congress, June 28 to July 3, Amsterdam, The Netherlands.
 32. Torode I.P. and Fatone S. (1998) Instructional Course Lecture 6: Gait analysis in Proximal Femoral Focal Deficiency. Paediatric Orthopaedic Society of New Zealand, Special Annual Scientific Meeting, January 29-30, Queenstown, New Zealand.
 33. Torode I.P., Fatone S. and Graham H.K. (1997) Kinematic analysis of the surgical and prosthetic options for children with PFFD. Australian Paediatric Orthopaedic Association, Annual Meeting, July 14-15, Sydney, Australia.
 34. Boyd R., Fatone S., Olesch O., Rodda J., Cullis E., Starr R., Natrass G. and Graham H.K. (1997) 'High Tech' or 'Low Tech' Measurement of Energy Expenditure in Clinical Gait Analysis? American Academy of Cerebral Palsy and Developmental Medicine, Annual Meeting, September 17-20, Portland, Oregon. *Developmental Medicine and Child Neurology*, 39(suppl. 75):17-18.
 35. Fatone S., Boyd R., Rodda J., Gallagher D., Cullis E., Natrass G. and Graham H.K. (1996) Evaluation of the Cosmed K4 in a Clinical Gait Analysis Laboratory. European Society for Movement Analysis in Children, International Meeting, September 12-14, Dublin, Ireland. *Gait and Posture*, 1997, 5(1):79.
 36. Fatone S., Bach T.M., Torode I.P. and Graham H.K. (1996) Biomechanics of the gait of children with Proximal Femoral Focal Deficiency (PFFD). International Society for Prosthetics and Orthotics, Annual Scientific Meeting, September 5-7, Brisbane, Australia.

Posters

1. Johnson B., Fatone S. and Gard S. (2007) Preliminary Results for a Dynamic Analysis of RGO Users. Gait and Clinical Motion Analysis Society, April 11-14, Springfield, MA (poster).
2. Sorci E., Fatone S., Hansen A. and Gard S. (2007) Pilot Study Evaluating Ankle Foot Orthoses using Roll-over Shapes. Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 21-24, San Francisco, CA (Resident Poster).
3. Saha D., Gard S., Fatone S. and Ondra S. (2006) The Effect of Trunk Posture on Global Balance. 56th Annual Congress of Neurological Surgeons, October 7-12, Chicago, IL (e-poster).

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4. Konz R., Fatone S., Gard S., Ganju A. and Ondra S. (2005) The Effects of Spinal Restriction on Walking: II. Lower Limb Data. Scoliosis Research Society 40th Annual Meeting, October 27-30, Miami, FL (e-poster).
 5. Konz R., Ganju A., Fatone S., Ondra S., and Gard S. (2005) Non-invasive Measurement of Static and Dynamic Alignment. Congress of Neurological Surgeons, October 8-13, Boston, MA (poster).
 6. Konz R., Ganju A., Fatone S., Ondra S. and Gard S. (2005) The Effects of Spinal Restriction on Walking: I. Regional Spinal Kinematics. 12th International Meeting on Advanced Spine Techniques, July 7-9, Banff, Canada (e-poster).
 7. Konz R., Fatone S., Gard S., Ganju A. and Ondra S. (2005) The Effects of Spinal Restriction on Walking: II. Lower Limb Data. 12th International Meeting on Advanced Spine Techniques, July 7-9, Banff, Canada (e-poster).
 8. Konz R., Ganju A., Fatone S., Gard S. and Ondra S. (2004) Non-invasive Measurement of Static and Dynamic Alignment: Preliminary Data. Scoliosis Research Society, 39th Annual Meeting, September 6-9, Buenos Aires, Argentina (poster).
 9. Konz R., Ganju A., Fatone S., Gard S. and Ondra S. (2004) Non-invasive Measurement of Static and Dynamic Alignment: Preliminary Data. 11th International Meeting on Advanced Spine Techniques, July 1-3, Southampton, Bermuda (e-poster).
 10. Konz R., Fatone S. and Gard S.A. (2004) The Effect of Thoraco-Lumbo-Sacral Orthoses on Gait. Gait and Clinical Movement Analysis Society, 9th Annual Meeting, April 21-24, Lexington, VT (poster).
 11. Konz R., Stine R., Ganju A., Fatone S., Jorge A., Gard S., Childress D. and Ondra S. (2003) Development of an Advanced Biomechanical Spine Model to Assess the Effect of Surgical Stabilization and Alignment on Gait. Congress of Neurological Surgeons, 53rd Annual Meeting, October 18-23, Denver, CO. **Awarded the 'red ribbon' for outstanding poster.**
 12. Konz R., Stine R., Fatone S., Ganju A., Jorge A., Gard S., Childress D. and Ondra S. (2003) Development of an Advanced Biomechanical Spine Model to Assess the Effect of Surgical Stabilization and Alignment on Gait. 10th International Meeting on Advanced Spine Techniques, July 10-12, Rome, Italy (poster).
 13. Konz R., Stine R., Fatone S., Gard S., Childress D., Ganju A. and Ondra S. (2003) An Advanced Biomechanical Model to Assess How Spinal Motion Contributes to Gait: Preliminary Data. Gait and Clinical Movement Analysis Society, 8th Annual Meeting, May 7-10, Wilmington, DE (poster).
 14. Fatone S., Gard S.A., Childress D.S. and Malas B.S. (2002) An Investigation of Foot Alignment and Support in Ankle Foot Orthoses (AFOs). Third VA Rehabilitation Research and Development National Meeting, February 10-12, Arlington, VA (poster).
 15. Fatone S., Bach T.M. and Graham H.K. (1999) Comparison of models of hip joint centre location in normals and children with PFFD. Clinical Gait and Motion Analysis Society, Annual Scientific Meeting, March 10-13, Dallas, TX (poster). *Gait and Posture*, 9(2):131.
 16. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (1997) Motion of the PFFD Hip. International Society for Prosthetics and Orthotics, Annual Scientific Meeting, November 20-22, Melbourne, Australia (poster).

Other Presentations

1. Mangun J., McGovern D. and Fatone S. (2009) AFO Tuning Experiences: An orthotist and therapist perspectives. **Invited Faculty**, Rehabilitation Institute of Chicago Pediatric Gait Analysis and Orthotic Management, December 10-12, 2009, Chicago, IL.
2. Fatone S. and Caldwell R. (2010) Gait Kinematics and Kinetics in Sub-Ischial Sockets with Assisted-Vacuum Suspension: Case Studies of Persons with Transfemoral Amputation. **Invited Speaker**, Fall Meeting, Midwest Chapter, American Academy of Orthotists and Prosthetists, November 7, Hickory Hills, IL.

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3. Fatone S. (2009) The Biomechanics of Partial Foot and Neuropathic Gait. **Invited Speaker**, ISPO Canada Symposium, October 22-24, Toronto, ON, Canada.
 4. Fatone S. (2009) Stroke Gait. **Invited Speaker**, ISPO Canada Symposium, October 22-24, Toronto, ON, Canada.
 5. Fatone S. (2009) Module 6: Review of the Evidence for Sub-Atmospheric Suspension Systems. **Invited Speaker**, American Academy of Orthotists and Prosthetists One Day Course on Sub-Atmospheric Suspension Systems: Clinical Application, Evidence & Reimbursement, October 10, Chicago IL.
 6. Fatone S. (2009) Clinical Barriers: Research Dissemination—A review on the barriers and facilitators to knowledge translation. **Invited Participant**, American Academy of Orthotists and Prosthetists Great Barriers Meeting, July 17-29, Chicago IL.
 7. Fatone S., Gard S. and Stine R. (2009) Randomized cross-over study of AFO ankle components in adults with post-stroke hemiparesis: preliminary results. **Invited Speaker**, Annual Summer Technical Meeting of the Midwest Chapter of the American Academy of Orthotists and Prosthetists, June 11-13, Lake Geneva, WI.
 8. Fatone S. and Gard S. (2009) Knowledge Transfer: Challenges to Research Dissemination and Implementation in Prosthetics and Orthotics. Technology Transfer Planning Meeting for RERC Projects Funded 10/1/08. May 13, Washington DC.
 9. Fatone S. and Malas B. (2009) Workshop: Lower Limb Orthotics. **Invited Faculty**, Rehabilitation Institute of Chicago Annual Interdisciplinary Stroke Course: The Brain and Body Connection After Stroke, April 16-17, Chicago, IL.
 10. Fatone S. and Gard S. (2009) Special Forum: The NIDRR Rehabilitation Engineering Research Center for P&O at Northwestern University. Instructional Course, Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 4-7, Atlanta, GA.
 11. Fatone S. (2008) Application of marker-based motion analysis systems to prosthetics and orthotics. **Invited Speaker** in: Ayappa E, Kaufmann K, Ward R. Discovering Prosthetics and Orthotics through Instrumented Gait Assessment (AAOP Gait Society presentation). Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.
 12. Fatone S. (2008) Biomechanics of Ambulation after Partial Foot Amputation: A Systematic Literature Review. **Invited Speaker** in: Hafner B and Fatone S. Evidence Reports: Findings from the SSC on Biomechanics of Ambulation after Partial Foot Amputation (Instructional Course). Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, February 27 – March 1, Orlando, FL.
 13. Fatone S. and Hansen A. (2008) A Review of Principles and Clinical Implications of Roll-over Shape. **Invited Speaker**, Current Clinical Concepts in Orthotic & Prosthetic Rehabilitation, sponsored by the VHA O&P Education Committee as an extension of the O&P Strategic Planning, VA Prosthetic and Clinical Logistics (Central Office), February 6-8, San Pedro, CA.
 14. Fatone S. (2008) Functional Evaluation of Ankle Foot Orthoses in Adults with Post-Stroke Hemiplegia. **Invited Speaker**, Current Clinical Concepts in Orthotic & Prosthetic Rehabilitation, sponsored by the VHA O&P Education Committee as an extension of the O&P Strategic Planning, VA Prosthetic and Clinical Logistics (Central Office), February 6-8, San Pedro, CA.
 15. Fatone S., Hansen, A. (2007) Effect of an Ankle Foot Orthosis on Roll-over Shape in Adults with Hemiplegia following Stroke. **Invited Speaker**, 16th Annual Visiting Professor Symposium, Motion Analysis Center, Children’s Memorial Hospital, November 9, Chicago, IL.
 16. Fatone S. (2007) Effect of Ankle Foot Orthosis Alignment and Foot-Plate Length on the Gait of Adults with Hemiplegia. **Invited Speaker**, American Academy of Orthotists and Prosthetists Midwest Chapter Fall Meeting, November 3, Hickory Hills, IL.

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17. Del Bianco J. and Fatone S. (2007) Silicone AFO Research. **Invited Presentation**, American Academy of Orthotists and Prosthetists North Carolina and South Carolina Chapter Meeting, November 2, Charlotte, NC.
 18. Fatone S. (2007) Functional Evaluation of Ankle Foot Orthoses in Adults with Post-Stroke Hemiplegia. **Invited Speaker**, Bio-Interest Group (BIG) seminar series, Department of Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, October 15, Urbana-Champaign, IL.
 19. Fatone S. (2007) Funding for P&O Research. In: O&P Outcomes Initiative Steering Committee: Progress Report and Panel Discussion. **Invited Speaker**, American Orthotics and Prosthetics Association National Assembly, September 16-20, Las Vegas, NV.
 20. Fatone S. (2007) Outcomes Research and Evidence Based Medicine. In: O&P Outcomes Initiative Steering Committee: Progress Report and Panel Discussion. **Invited Speaker**, American Orthotics and Prosthetics Association National Assembly, September 16-20, Las Vegas, NV.
 21. Fatone S. (2007) Biomechanics of Ambulation after Partial Foot Amputation: Systematic Review. **Invited Speaker**, Certified Staff Meeting, Scheck and Siress Advanced Prosthetics and Orthotics, August 13, Hickory Hills, IL.
 22. Dillon M., Fatone S., Hodge M. (2007) Biomechanics of Ambulation after Partial Foot Amputation: Systematic Review. In: Symposium—Management of the Partial Foot Amputee. **Invited Speaker**, 12th World Congress of the International Society for Prosthetics and Orthotics, July 29 to August 30, Vancouver, BC, Canada.
 23. Fatone S. (2007) Review of Functional Analyses of Van Nes Rotationplasty for PFFD and osteosarcoma. In: Advanced Instructional Course—Van Nes Rotationplasty in the treatment of PFFD and osteosarcoma of the distal femur. **Invited Speaker**, 12th World Congress of the International Society for Prosthetics and Orthotics, July 29 to August 30, Vancouver, BC, Canada.
 24. Fatone S. (2007) Orthotic Management of Stroke: Lower Limb. **Invited Speaker**, Rehabilitation Institute of Chicago Stroke Course, April 12-13, Chicago, IL.
 25. Fatone S. (2007) SSC7: KAFOs for Ambulation. Literature Review and Ranking. Instructional Course: Findings from the Recent Academy State of the Science Conference on Knee-Ankle-Foot Orthoses. **Invited Participant**, Annual Meeting and Scientific Symposium of the American Academy of Orthotists and Prosthetists, March 21-24, San Francisco, California.
 26. Dillon M., Fatone S., Hodge M. (2007) Literature Review and Ranking. **Invited Participant**, American Academy of Orthotists and Prosthetists State of the Science Conference 8: Biomechanics of Partial Foot Ambulation. March 3-4, Rosemont, IL.
 27. Fatone S. (2007) Agency for Health Care Policy and Research (AHCPR) Rating System. **Invited Participant**, American Academy of Orthotists and Prosthetists Symposium on Assessment of Literature Quality, January 19-20, Seattle, WA.
 28. Johnson B., Fatone S., Gard S. (2006) Preliminary Findings for a Pilot Study on the Mechanics of RGO Gait. **Invited Speaker**, 15th Annual Visiting Professor Symposium, Motion Analysis Center, Children's Memorial Hospital, November 10, Chicago, IL.
 29. Fatone S. (2006) Normal Human Locomotion. **Invited Speaker**, In-house lecture series, Children's Memorial Hospital, October 17, Chicago, IL.
 30. Fatone S. (2006) Orthotics Research: where we are now and where we're headed. **Invited Speaker**, Ohio Chapter, American Academy of Orthotists and Prosthetists Annual Fall Scientific Meeting, October 14, Columbus, OH.
 31. Fatone S. (2006) Putting the 'O' in P&O research. The Dudley S. Childress Symposium, Northwestern University Prosthetics Research Laboratory and Rehabilitation Engineering Research Program, October 6-7, Chicago & Evanston, IL.

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32. Konz R., Fatone S., Gard S., Ganju A., Ondra S., Childress D., Stine R. (2006) The Role of the Spine in Human Walking: Studies of Able-bodied Persons and Individuals with Spinal Pathologies. Medtronic Sofamor Danek, Inc., October 16, Memphis, TN.
 33. Konz R., Fatone S., Gard S., Ganju A., Ondra S., Childress D., Stine R. (2006) The Role of the Spine in Standing and Walking: Where Do We Go From Here? Medtronic Sofamor Danek, Inc., October 16, Memphis, TN.
 34. Fatone S. (2006) Funding P&O Research. **Invited Speaker**, American Orthotics and Prosthetics Association, Board of Directors Meeting, July 13, Sedona, AZ.
 35. Fatone S. and Gard S.A. (2006) Biomechanics of Lower Limb Function and Gait. **Invited Speaker**, AAOP Certificate Course on "Orthotic Management of the CVA/Stroke Patient." American Academy of Orthotists and Prosthetists, Annual Meeting, March 1-4, Chicago, IL.
 36. Fatone S., Gard S.A. and Heckathorne C. (2006) Research in P&O: Are We Addressing Clinically Relevant Problems. Special Event, American Academy of Orthotists and Prosthetists, Annual Meeting, March 1-4, Chicago, IL.
 37. Fatone S. (2006) Online Survey and Forum: Summary of Results. Northwestern University Rehabilitation Engineering Research Center in Prosthetics and Orthotics, State of the Science Meeting in Prosthetics and Orthotics Research, February 28, Chicago, IL.
 38. Fatone S. (2006) Lower Limb Orthotics: Literature Review. Northwestern University Rehabilitation Engineering Research Center in Prosthetics and Orthotics, State of the Science Meeting in Prosthetics and Orthotics Research, February 28, Chicago, IL.
 39. Fatone S. (2006) Literature Review and Ranking. **Invited Participant**, American Academy of Orthotists and Prosthetists State of the Science Conference 7: KAFOs for Ambulation. February 11-12, Chicago Hilton, O'Hare, IL.
 40. Fatone S., Gard SA. (2005) Biomechanics of Lower Limb Function and Gait. **Invited Speaker**, AAOP one day seminar on "Orthotic Management of the CVA/Stroke Patient." American Academy of Orthotists and Prosthetists, November 14, Rosemont, Illinois.
 41. Zissimopoulos A., Fatone S. and Gard S. (2005) Functional Benefits of Stance-Control Orthotic Knee Joints: Preliminary Data. 14th Annual Visiting Professor Symposium, Motion Analysis Center, Children's Memorial Hospital, November 4, Chicago, Illinois.
 42. Gard S.A. and Fatone S. (2005) Biomechanics of Lower Limb Function and Gait. International Society for Prosthetics and Orthotics Update Course on Orthotic Management of Stroke, September 29-October 1, Arnhem, The Netherlands.
 43. Fatone S. and Gard S.A. (2005) Biomechanics of Lower Limb Function and Gait. **Invited Speaker**, AAOP Certificate Course on "Orthotic Management of the CVA Stroke Patient." American Academy of Orthotists and Prosthetists, Annual Meeting, March 16-19, Orlando, Florida.
 44. Fatone S. (2004) Biomechanics of Orthotic Gait. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, November 4-6, Chicago, Illinois.
 45. Fatone S. (2004) Orthotic Case Study: CVA. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, November 4-6, Chicago, Illinois.
 46. Fatone S. (2004) Orthotic Case Study: Post Polio Syndrome. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, November 4-6, Chicago, Illinois.
 47. Fatone S. (2004) Normal Gait: Metabolic Energy Expenditure. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, November 4-6, Chicago, Illinois.

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48. Fatone S. (2004) Application of Instrumented Gait Analysis to Prosthetics and Orthotics. **Guest Speaker**, American Prosthetics and Orthotics Inc. Fall Scientific Meeting, October 23, Des Moines, Iowa.
 49. Fatone S. (2004) Effects on Gait of Ankle Alignment and Foot-Plate Length in Ankle Foot Orthoses. **Guest Speaker**, American Prosthetics and Orthotics Inc. Fall Scientific Meeting, October 23, Des Moines, Iowa.
 50. Fatone S. (2004) Overview of Prosthetics and Orthotics Research at Northwestern University. **Guest Speaker**, American Prosthetics and Orthotics Inc. Fall Scientific Meeting, October 23, Des Moines, Iowa.
 51. Gard S.A. and Fatone S. (2003) Biomechanics of Lower Limb Function and Gait. International Society for Prosthetics and Orthotics Consensus Conference on Orthotic Management of Stroke, September 22-26, Ellecom, The Netherlands.
 52. Fatone S. (2005) From Concept to Execution: “The Role of the Spine in Human Walking: Able-bodied and Pathologic Individuals.” Annual Department of Neurosurgery Research Retreat, “Research Training in Neurosurgery”, March 25, Evanston Hospital, Evanston, Illinois.
 53. Fatone S. (2004) The La Trobe University P&O Doctoral Program. Advanced Degree Conference, Sponsored by American Academy of Orthotists and Prosthetists & Prosthetics Research Study, July 15-16, Chicago, Illinois.
 54. Fatone S., Gard, S.A., Childress, D.S. and Malas, B. (2003) An Investigation of Foot Alignment and Support in Ankle Foot Orthoses (AFOs). Children’s Memorial Hospital Visiting Professor Symposium, November 7, Chicago, Illinois.
 55. Fatone S. (2002) Post-doctoral Fellows and Orthotic Research. National Institute on Disability and Rehabilitation Research, Rehabilitation Engineering Research Center in Prosthetics and Orthotics, Summative Review, June 17, Rockville, Virginia.
 56. Fatone S. and Malas B. (2002) Biomechanics of Orthotic Gait. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 19-21, Chicago, Illinois.
 57. Fatone S. (2002) Orthotic Case Study: CVA. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 19-21, Chicago, Illinois.
 58. Fatone S. (2002) Orthotic Case Study: Post Polio Syndrome. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 19-21, Chicago, Illinois.
 59. Fatone S. (2002) Normal Gait: Metabolic Energy Expenditure. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 19-21, Chicago, Illinois.
 60. Fatone S. and Malas B. (2001) Biomechanics of Orthotic Gait. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 27-29, Chicago, Illinois.
 61. Fatone S. (2001) Orthotic Case Study: CVA. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 27-29, Chicago, Illinois.
 62. Fatone S. (2001) Orthotic Case Study: Post Polio Syndrome. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 27-29, Chicago, Illinois.
 63. Fatone S. (2001) Normal Gait: Metabolic Energy Expenditure. American Academy of Orthotists and Prosthetists Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists. Northwestern University, September 27-29, Chicago, Illinois.

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64. Fatone S. (2000) Biomechanics of the Foot and Ankle (overview). Workshop, Victorian Section Meeting, Australian Orthotic Prosthetic Association, May 24, Melbourne, Australia.
65. Fatone S., Bach T.M., Graham H.K. and Torode I.P. (2000) Pre- and post-operative gait analysis of tibial rotationplasty for PFFD. Second Australian Course in Clinical Gait Analysis, Clinical Gait Analysis Presentation Afternoon, Royal Children's Hospital, May 25, Melbourne, Australia.

Service Experiences

Committees

- 9/2009-present Advisory Board, Battery of Rehabilitation Assessments and Interventions in Neurorehabilitation (BRAIN), Rehabilitation Institute of Chicago.
- 5/2008-6/2008 Northwestern University Prosthetic-Orthotic Center, Search Committee for Assistant Director of Prosthetics Education.
- 5/18/09-present Planning Committee, VA/DoD State of the Art (SOTA) conference on “Prosthetics and Orthotics in VA and DoD.”
- 4/2009-present Editorial Advisory Board, Lower Extremity Review.
- 11/2008-present Northwestern University Prosthetic-Orthotic Center, Advisory Board.
- 11/2008 Northwestern University Prosthetic-Orthotic Center, Search Committee for Director of Prosthetics Education.
- 4/2008-present Research Committee, Orthotics and Prosthetics Education and Research Foundation.
- 10/2007 Invited participant, American Academy of Orthotists and Prosthetists Strategic Planning Day, October 28, 2007, Chicago, IL.
- 11/2007-4/2008 Gait and Clinical Motion Analysis Society 2008 Scientific Program Committee, 13th Annual Meeting, April 2-5, 2008, Richmond, VA.
- 8/2007-present Research Grant Committee, International Society for Prosthetics and Orthotics, Australian National Member Society. (Chair, 9/2008-present).
- 6/2007-present Clinical Content Committee, American Academy of Orthotists and Prosthetists Annual Scientific Meeting.
- 5/2007 Invited participant, Orthotics & Prosthetics Development and Manufacturing Workshop, sponsored by the Department of Defense Office of the Secretary of Defense Manufacturing Technology Program and the Navy Manufacturing Technology Program, June 25-27, Silver Spring, MD.
- 1/2007-1/2009 Member, Orthotics and Prosthetics Outcomes Initiative Steering Committee, American Orthotic and Prosthetic Association.
- 8/2006-present Member, Research Council, American Academy for Orthotists and Prosthetists.
- 10/2005-present Member, Grants Committee, American Academy for Orthotists and Prosthetists (Chair, 8/2006 – present)

Reviewer

- 4/2009 Reviewer, 31st Annual International Conference of the IEEE Engineering in Medicine, Biology and Society, Minneapolis, MN, September, 2-6, 2009.
- 11/2008 Reviewer, NIH, Special Emphasis Panel/Scientific Review Group 2009/01 ZRG1 MOSS-F (15) B Rehabilitation Sciences meeting
- 9/2008 External Reviewer, Military Amputee Program of the Henry M. Jackson Foundation for the Advancement of Military Science through the Scientific Peer Advisory and Review Services division of the American Institute of Biological Sciences (AIBS).
- 4/2008 Reviewer, 30th Annual International Conference of the IEEE Engineering in Medicine, Biology and Society, Vancouver, British Columbia, Canada, 20th - 24th August, 2008.

7/2007	Invited participant, NSF SBIR/STTR Biotechnology Topic Virtual Workshop, July 26, 2007.
4/2007	External Reviewer, grants, STTR Phase I Review for US Army through GDIT.
2007	Reviewer, 29 th International Conference of the IEEE Engineering in Medicine and Biology Society in conjunction with the Biennial Conference of the French Society of Biological and Medical Engineering (SFGBM), Lyon, France, 23rd - 26th August, 2007.
2007	Grant reviewer, Muscular Dystrophy Campaign, UK.
2001-present	Ad-hoc reviewer for the following journals <i>Gait and Posture</i> , <i>Prosthetics and Orthotics International</i> , <i>IEEE Transactions on Biomedical Engineering</i> , <i>Journal of NeuroEngineering and Rehabilitation</i> , <i>Archives of Physical Medicine and Rehabilitation</i> , <i>Assistive Technology</i> , <i>Journal of Prosthetics and Orthotics</i> , <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <i>Journal of Rehabilitation Research and Development</i> .

Mentoring Experiences

Northwestern University, Chicago IL, USA.

2008-present	William B. Johnson, PhD in Biomedical Engineering. Committee Member.
2007-2008	Jim Del Bianco, orthotics resident. Directed Study: "Comparison of Silicone and Posterior Leaf Spring Ankle-Foot Orthoses in a Subject with Charcot-Marie-Tooth." Awarded Best of the Resident Directed Studies, March 2009.
Winter 2007	Thomas Most, orthotics student volunteer.
Summer 2006	Elena Sorci, NU-RERC Scholar. Project: "Pilot Study: Evaluation of Ankle Foot Orthoses (AFOs) using Roll-over Shapes."
2004-2008	William B. Johnson, MS in Biomedical Engineering. Thesis: "Preliminary Quantitative Gait Analysis of Reciprocating Gait Orthosis (RGO) Users". Co-Advisor and Committee Member.
2004-2006	Angeliki Zissimopoulos, MS in Biomedical Engineering. Thesis: "The Biomechanical and Energetic Effects of a Stance-Control Orthotic Knee Joint". Co-Advisor and Committee Member.
2004-2006	Devjani Saha, MS in Biomedical Engineering. Thesis: "The Effect of Trunk Flexion on Standing and Walking". Co-Advisor.
2002-2007	Regina J. Konz, PhD in Biomedical Engineering. Thesis: "The Role of the Spine in Human Walking: Studies of Able-bodied Persons and Individuals with Spinal Pathologies." Co-Advisor.
Summer 2002	Alison Boynton, NIDRR Scholar. Project: "New stance control orthotic knee joints: pilot project."

Teaching Experiences

Northwestern University, Chicago IL, USA.

2008	Normal Human Locomotion (lecture), April 22, 2008. Prosthetics/Orthotics 725: Upper/Lower-limb Prosthetics and Orthotics for Physicians, Surgeons and Therapists, April 21-25, 2008, Chicago IL, USA.
2004-2008	Introduction to Orthotics (lecture), BMD_ENG 365: Control of Human Limbs and Their Artificial Replacements, Northwestern University, Evanston IL, USA.
2002-present	Normal Gait Analysis and Pathological Gait Analysis (lecture), Certificate Program in Orthotics, Northwestern University Prosthetics and Orthotics Center, Chicago IL, USA.

2001, '02, '04 Advanced Training Course: Overview of Gait Analysis for Prosthetists and Orthotists (faculty). American Academy of Orthotists and Prosthetists and Northwestern University Prosthetics Research Laboratory and Rehabilitation Engineering Research Program, September 27-29, 2001; September 19-21, 2002; November 4-6, 2004, Chicago, IL, USA.

La Trobe University, Melbourne, Australia.

2000 Orthotic Management of CVA (lecture), 2nd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1999-2000 Patient Evaluation (practical classes), 2nd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1999-2000 Lower Limb Orthotics (practical classes), 2nd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1999 Anatomical Terminology and the Musculoskeletal System (lecture), Bridging Course in Anatomy and Physiology, School of Human Biosciences.

1998-2000 Orthotic Management of Post-Polio Syndrome (lecture), 2nd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1998-2000 Physiotherapy Skills (orthotic practical classes), 2nd year Bachelor of Physiotherapy, School of Physiotherapy.

1997-2000 Gait of Children with Limb Deficiencies (lecture), 3rd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1996, 2000 Lower Limb Prosthetics (practical classes), 3rd year Bachelor of Prosthetics and Orthotics, National Center for Prosthetics and Orthotics.

1996-1999 Anatomy (practical classes), 1st year Bachelor of Health Science, Bachelor of Prosthetics and Orthotics, and Bachelor of Nursing, School of Human Biosciences.