

REFEREED PUBLICATIONS

Footwear

Luo, G., **Stergiou, P.**, Worobets, J., Nigg, B.M. and Stefanyshyn, D.J. (2009) Improved footwear comfort reduces oxygen consumption when running. *Footwear Science*, Vol. 1(1), 25-29.

Nigg, B.M., **Stergiou, P.**, Cole, G., Stefanyshyn, D.J., Mündermann, A., and Humble, R.N. (2003) Effect of shoe inserts on kinematics, center of pressure and leg joint moments during running. *Medicine and Science in Sports and Exercise*, Vol. 35(2), 314-319.

Nigg, B.M., Stefanyshyn, D.J., Cole, G., **Stergiou, P.** and Miller, J. (2003) The effect of material characteristics of shoe soles on muscle activation and energy aspects during running. *Journal of Biomechanics*, Vol. 36, 569-575.

Golf

Luo, G., **Stergiou, P.** and Stefanyshyn, D.J. (2009) Validation of mechanical method for golf footwear stability measurement. *Footwear Science*, Vol. 1, 45-46.

Lindsay D.M., and **J.F. Horton**. Trunk rotation strength and endurance in healthy normals and elite male golfers with and without low back pain (2006). *North American Journal of Sports Physical Therapy*. 1(2): 80-89.

Lindsay D.M., **Horton J.F.**, and R.D. Paley. Trunk motion of male professional golfers using two different golf clubs (2002). *Journal of Applied Biomechanics*. 18(4): 366-373.

Lindsay D.M. and **J.F. Horton**. Comparison of spine motion in elite golfers with and without low back pain (2002). *Journal of Sports Sciences*. 20: 599-605.

Horton J.F., Lindsay D.M., and B.R. MacIntosh. Abdominal muscle activation of elite male golfers with chronic low back pain (2001). *Medicine & Science in Sports & Exercise*. 33(10): 1647-1654.

Lindsay D.M., **Horton J.F.**, and A.A. Vandervoort. A review of injury characteristics, aging factors and prevention programmes for the older golfer (2000). *Sports Medicine*. 30(2): 89-103.

Technology

Silveira, R.P., **Stergiou, P.**, Carpes, F.P., Castro, F.S., Katz, L and Stefanyshyn, D.J. (2016) Validity of a portable force platform for assessing biomechanical parameters in three different tasks. *Sports Biomechanics*, Sept., 1-10.

Vincent, J., **Stergiou P.** and Katz, L. (2009) The role of databases in sport science: current practice and future potential. *International Journal of Computer Science in Sport*, Vol. 8(2), 50-66.

Gildenhuis, A., MacDonald, P., Fyfe, K. and **Stergiou, P.** (2004) Accuracy of a new activity monitor for assessing exercise intensity during walking. *Medicine & Science in Sports & Exercise*. Vol. 36(5), S197.

Injury / Rehabilitation

Stefanyshyn, D.J., **Stergiou, P.**, Lun, V.M.Y., Meeuwisse, W. and Worobets, J.T. (2006) Knee angular impulse as a predictor of patellofemoral pain in runners. *American Journal of Sports Medicine*, Vol. 34(11), 1844-1851.

Lun, V.M.Y., Meeuwisse, W.H., **Stergiou, P.** and Stefanyshyn, D.J. (2004) Relation between running injury and static lower limb alignment in recreational runners. *British Journal of Sports Medicine*, Vol. 38, 576-580.

Valderrabano, V., Hintermann, B., Nigg, B., Stefanyshyn, D. and **Stergiou, P.** (2003) Kinematic Changes after Fusion and Total Replacement of the Ankle – Part 1: Range of Motion. *Foot and Ankle International*. Vol. 24(12), 881-887.

Valderrabano, V., Hintermann, B., Nigg, B., Stefanyshyn, D. and **Stergiou, P.** (2003) Kinematic Changes after Fusion and Total Replacement of the Ankle – Part 2: Movement Transfer. *Foot and Ankle International*. Vol. 24(12), 888-896.

Valderrabano, V., Hintermann, B., Nigg, B., Stefanyshyn, D. and **Stergiou, P.** (2003) Kinematic Changes after Fusion and Total Replacement of the Ankle – Part 3: Talar Movement. *Foot and Ankle International*. Vol. 24(12), 897-900.

Wakeling, J.M., von Tschanner, V., Nigg, B.M. and **Stergiou, P.** (2001) Muscle activity in the leg is tuned response to ground reaction forces. *Journal of applied Physiology*. Vol. 91, 1307-1317.

Winter, D.A., Prince, F., **Stergiou, P.** and Powell, C. (1993) Medial-lateral and anterior-posterior motor responses associated with centre of pressure changes in quiet standing. *Neuroscience Research Communications*, Vol. 12(3), 141-148.

Other Sports

Macaulay, C.A.J., Katz, L., **Stergiou, P.**, Stefanyshyn, D. and Tomaghelli, L. (2016) Kinematic and kinetic analysis of overhand, sidearm and underhand lacrosse shot techniques. *Journal of Sport Sciences*, Vol. Dec 2016, 1-7.

Abdelrasoul, E., Mahmoud, I., **Stergiou, P.** and Katz L. (2015) The accuracy of a real time sensor in an instrumented basketball. *Procedia Engineering*, Vol. 112.

MacIntosh B.R., Neptune R.R., and **J.F. Horton**. Cadence, power, and muscle activation in cycle ergometry (2000). *Medicine & Science in Sports & Exercise*. 32(7): 1281-1287.

MacIntosh B.R., Neptune R., and **J. F. Horton**. Cadence Effects on Integrated EMG at 100 to 400 Watts Power Output on a Cycle Ergometer (1999). *Medicine & Science in Sports & Exercise*. 31(Supplement): May.

ABSTRACTS

Footwear

Luo, G., **Stergiou, P.**, Worobets, J., Nigg, B. and Stefanyshyn, D. (2009) Footwear comfort and running performance. Proceedings of the XXII Congress of the International Society of Biomechanics.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M., Rozitis, A.I. and Goepfert, B. (2003) Do females require different running footwear? Proceedings of the Sixth Symposium on Footwear Biomechanics, 91-92.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M., Rozitis, A.I. and Goepfert, B. (2003) Do pronators pronate? Proceedings of the Sixth Symposium on Footwear Biomechanics, 89-90.

Nigg, B.M., Cole, G., **Stergiou, P.** and Stefanyshyn, D. (2000) The use of pressure measurements to determine the effect of shoe orthotics on knee joint moments. Clinical Biomechanics, Vol. 16, 846-847.

Nigg, B.M., Cole, G., **Stergiou, P.** and Stefanyshyn, D. (2000) The use of pressure measurements to determine the effect of shoe orthotics on knee joint moments. Abstracts of the Emed Millennium Meeting, 34.

Golf

Luo, G., **Stergiou, P.** and Stefanyshyn, D. (2009) Validation of a mechanical method for golf footwear stability measurement. Proceedings of the 9th Footwear Biomechanics Symposium, 45-46.

Injury / Rehabilitation

de David, A., **Stergiou, P.** and Stefanyshyn, D. (2010) Joint moments during walking and running at different speeds. Proceedings of the 34th Annual Meeting of the American Society of Biomechanics

Valderabanno, V., Hintermann, B., Nigg, B.M., Stefanyshyn, D. and **Stergiou, P.** (2002) Biomechanical properties of total ankle arthroplasty and ankle arthrodesis. Proceedings of the Fourth World Congress of Biomechanics.

Stefanyshyn, D.J., **Stergiou, P.**, Lun, V.M.Y. and Meeuwisse, W.H. (2001) Dynamic variables and injuries in running. Proceedings of the Fifth Symposium on Footwear Biomechanics, 74-75.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M., Lun, V.M.Y. and Meeuwisse, W.H. (2000) The relationship between impact forces and running injuries. Abstracts of the XXVth Congress of the Societe de Biomecanique and the XIth Congress of the Canadian Society for Biomechanics, 43.

Lun, V.M.Y., Meeuwisse, W.H., **Stergiou, P.**, Stefanyshyn, D. and Nigg, B.M. (2000) The incidence of running injury and its relationship to lower limb alignment in recreational runners. Medicine and Science in Sports and Exercise, Vol. 32 (5 Supplement), S127.

Stergiou, P., Stefanyshyn, D.J., Nigg, B.M., Lun, V.M.Y., and Meeuwisse, W.H. (1999) Knee joint loading and patellofemoral pain syndrome in runners: Proceedings of the International Society of Biomechanics XVIIth Congress, 306.

Stefanyshyn, D.J., **Stergiou, P.**, Lun, V.M.Y., Meeuwisse, W.H. and Nigg, B.M. (1999) Knee joint moments and patellofemoral pain syndrome in runners Part 1: A case control study, Part II: A prospective cohort study. Proceedings of the Fourth Symposium on Footwear Biomechanics, 86-87.

TECHNICAL REPORTS

Footwear

Stefanyshyn, D., Fukuchi, C., **Stergiou, P.** and Worobets, J. (2010) Powerdiet Shoe Evaluation. Research Report for Korean Footwear International and Aison Company Ltd.

Worobets, J., **Stergiou, P.**, Hung, S. and Stefanyshyn, D. (2010) Performance assessment of ultralite basketball shoes. Research Report for adidas International.

Worobets, J., **Stergiou, P.**, Hess, T., Schmidt, D., Wannop, B. and Stefanyshyn, D.J. (2010) Adidas Fluid ride: Assessing the fluid ride concept in prototype athletic training shoes. Research Report for adidas International.

Worobets, T.J., **Stergiou, P.**, Sakaguchi, M., Kawakami, Y. and Stefanyshyn, D.J. (2010) Regional Differences: Running Biomechanics Comparison of North American and Japanese Populations. Research Report for adidas International.

Stergiou, P., Stefanyshyn, D.J., Panizzolo, F. and Kim, Y. J. (2009) Boss Walking Shoe: Biomechanical and physiological influence of a new walking shoe design. Research and Testing Report for Korean Footwear Institute and Boss Corp.

Stergiou, P. and Stefanyshyn, D.J. (2009) Badminton footwear II. Research Report for Korean Footwear International and Haksan Inc.

Stefanyshyn, D.J., Rozitis, A.I., Nigg, B.M. and **Stergiou, P.** (2002) Short-term and long-term comfort and EMG associated with shoe inserts. Research report for the Department of National Defense.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M. Rozitis, A. and Goepfert, B. (2001) Pronation control, a functional analysis. Research Report for adidas International.

Stefanyshyn, D.J., **Stergiou, P.** and Nigg, B.M. (2000) The biomechanics of articulating heel shoes. Research report for Kaj Gyr.

Nigg, B.M., **Stergiou, P.**, Stefanyshyn, D.J. and Cole, G.K (1999) Muscle tuning pendulum experiments. Research report for adidas America Research and Innovation.

Nigg, B.M., **Stergiou, P.**, Stefanyshyn, D.J. , Strudsholm, L., Krell, J. and Wakeling, J. (1999) Viscous and elastic shoe soles. Research report for adidas America Research and Innovation.

Stergiou, P., Cole, G.K, Nigg, B.M. and Stefanyshyn, D.J. (1999) Shoe comfort and oxygen consumption. Research report for adidas America Research and Innovation.

Stergiou, P., Nigg, B.M., Stefanyshyn, D.J., Hiebert, J. (1998) A test protocol to quantify the performance of court shoes. Research report for adidas America Research and Innovation.

Golf

Stergiou, P. and Stefanyshyn, D.J. (2009) Mechanical testing of golf shoes part III. Research and Testing Report for Taylormade adidas Golf.

Stergiou, P. and Stefanyshyn, D.J. (2009) Mechanical testing of golf shoes. Research and Testing Report for Taylormade adidas Golf.

Stergiou, P. and Stefanyshyn, D.J. (2008) Golf shoe stability: biomechanical and mechanical testing methods. Research and Testing Report for Taylormade adidas Golf.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M. Schollhorn, W. and von Tschärner, V. (2002) Characterization of golfers based on their swing mechanics. Research report for TaylorMade Golf.

Stefanyshyn, D.J., **Stergiou, P.** and Nigg, B.M. (2001) Functional grouping of golf club designs: in depth analysis. Research report for TaylorMade Golf.

Stefanyshyn, D.J., **Stergiou, P.**, Nigg, B.M. and **Horton, J.** (2001) Functional grouping of golf club designs. Research report for TaylorMade Golf.

Technology

Horton, J.F., Stergiou P. (2017). *Polar M600 Validation Study*. Research report for Polar Electro Oy.

Horton, J.F., Stergiou P. (2016). *Polar A360 Validation Study*. Research report for Polar Electro Oy.

Other Sports

Stefanyshyn, D.J., Nigg, B.M., Hiebert, J. and **Stergiou, P.** (1997) Pressure and balance in alpine skiing: A pilot study. Research report for D. Blake Lowden.