

CV (RESUME)

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Ph.D.in Rehabilitation Science, Faculty of Medicine, McGill University, Montreal, Canada

Current position

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Fields of Interest

Rehabilitation, Pain, Multiple Sclerosis, Chronic Musculoskeletal Disorders, Health Related Quality of Life, Patient Reported Outcomes, Advanced Biostatistics, Research Methods, Systematic Review, Meta-Analysis, Adapted Physical Activity, Virtual Reality, and Measurement and assessment

Primary Education

- 1- Doctor of Philosophy (Ph.D.) in Rehabilitation Science, Faculty of Medicine, McGill University, Montreal, Canada, 2014 (GPA 3.9/4).
- 2- Master of Art (M.A) in Physical Education and Sport Science (Biomechanics), Tarbiat Modares University, Tehran, IRAN, 1999 (GPA 19.1/20).
- 3- Bachelor of Art (B.A) in Physical Education and Sport Science, Guilan University, Rasht, IRAN, 1996 (GPA 17.8/20).

Secondary Education

1. 21 European CME Credits (ECMEC). European Union of Medical Specialists and the American Medical Association. Institution of the European Union of Medical Specialists (UEMS / EACCME). Accredited Group Learning Activities as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada, ECTRIMS/ ACTRIMS. Paris, France, October 2017.
2. Multiple Sclerosis Summer School “Clinical, Physical, and Behavioral Science of Multiple Sclerosis”. Dalhousie University, Halifax, Nova Scotia, Canada, 2010.
3. Clinical Biomechanics (non- thesis master degree), Montreal University, Montreal, Canada, 2005 (GPA A/A⁺).
4. The McGill Diploma of Proficiency in English, McGill University, Montreal, Canada, 2006.

Fellowship

- 1- Canadian Institutes of Health Research (CIHR) - Frederick Banting and Charles Best Canada Graduate Study Fellowship, 2010- 2012, Ottawa, Ontario, Canada.
- 2- The Fonds de la Recherche en Santé du Québec (FRSQ) Doctoral Fellowship, September 2009, Quebec, Canada.
- 3- Richard and Edith Strauss Canada Foundation Doctoral Fellowship, January 2009, McGill University, Montreal, Canada.
- 4- McGill Graduate Studies Fellowship (MGSF), 2007, McGill University, Montreal, Canada.

Award & Distinction

- 1- Dr. Kazem Ashtiani Prize, Iran's National Elites Foundation, April 2019, Iran
- 2- Graduate Excellence Award, January 2014, McGill University, Montreal, Canada.
- 3- Best Poster Presentation. Health Outcomes Research Day. McGill University Health Outcomes Axis with the McGill Division of Geriatrics, May 16, 2013, Montreal, Canada.
- 4- Top Abstract Award. The 19th International Society for Quality of Life Research (ISOQOL) Conference, October 24- 27, 2012, Budapest, Hungary.
- 5- International Society of Quality of Life Research's New Investigator Travel Award for presentation at The 19th International Society for Quality of Life Research (ISOQOL). October 24- 27, 2012, Budapest, Hungary.
- 6- Best Poster presentation. The 18th Annual Conference of the International Society for Quality of Life Research, "Pushing the Boundaries: Frontiers of Health Related Quality of Life Research", October 26-29, 2011, Denver, Colorado, USA.
- 7- Nomination for ISOQOL New Investigator Prize. The 16th ISOQOL Annual Conference, October 28-31, 2009, New Orleans, LA, USA.
- 8- Best presentation. The first International Meeting of Pain /9th Annual Scientific Meeting of Iranian Pain Society, May 9-13, 2009, Iran.
- 9- Best Poster Presentation Award. The 13th World Cyber Therapy Conference, June 23-25, 2008, San Diego, CA, USA.
- 10- Differential International Tuition Fee Remission Prize, 2007, McGill University, Montreal, QC, Canada.
- 11- Best oral presentation, The 2nd International Congress of Sport Science. Physical Education & Sport Science Research Center, 2000, Tehran, IRAN.

Academic Prize

- 1- Among top 5% of students in the Faculty of Medicine of McGill University for presenting at the Canadian Students Health Research Forum. June 7-9, 2011, Winnipeg, Manitoba, Canada.
- 2- First rank student in M.A program, 2000, Tarbiat Modares University, IRAN.
- 3- First rank student in B.A program, 1997, Gilan University, IRAN.

Travel Grant

- 1- School of Physical and Occupational Therapy Great Travel grant for presentation at The 19th ISOQOL on October 24- 27, 2012, Budapest, Hungary.
- 2- Neuro-inflammation Travel grant for presentation at the 28th Congress of the European Committee for Research and Treatment in Multiple Sclerosis (ECTRIMS). 10 –13 October 2012, Lyon, France.
- 3- Quebec-Ottawa endMS Regional Research and Training Centre (QORRTC) Travel Grant for presentation at the 28th Congress of the European Committee for Research and Treatment in Multiple Sclerosis (ECTRIMS). 10 –13 October 2012, Lyon, France.
- 4- New Investigator Travel Grant, 18th Annual Conference of the International Society for Quality of Life Research, October 26-29, 2011, Denver, Colorado, USA.
- 5- McGill University, Faculty of Medicine International Travel Grant for participation in an intensive Statistics course in Multivariate Analysis. Sep 2011, SAS education center, New York, USA.

- 6- Travel grant and waive registration fee for the CIHR Research Presentation, June 7-9, 2011, Winnipeg, Manitoba.
- 7- Richard and Edith Strauss Canada Foundation Travel Grant for participation in the ISOQOL 16th Annual Conference, October 2009, New Orleans, LA, USA.
- 8- Alma Mater travel grant for poster presentation at The 9th Annual Scientific Meeting of Iranian Pain Society on May 9-13, 2009, Bandar Anzali, Iran.
- 9- Quebec Pain Research Network's travel grant for poster presentation at the 13th World Cyber Therapy Conference, 23-25 June, 2008, San Diego, CA.

Language proficiency

English (full proficiency) - French (intermediate proficiency) - Persian (Mother Tongue)

Publication

Book Chapters

- 1- **Shahrbanian S**; Ma X; Korner-Bitensky N; Simmonds MJ. Scientific evidence for the effectiveness of virtual reality for pain reduction in adults with acute or chronic pain. *Annual Review of Cybertherapy and Telemedicine- Advanced Technologies in the Behavioral, Social and Neurosciences*, IOS PRESS, 2009, 144: 40-3.
- 2- **Shahrbanian S**; Simmonds MJ. Effects of different virtual reality environments on experimental pain rating in post stroke individuals with and without pain in comparison to pain free healthy individuals. *Annual Review of Cyber Therapy and Telemedicine. Stud Health Technol Inform; IOS PRESS*, 2008, 6: 53-61.

Peer Reviewed Journals

- 1- Javanmardifard Z, **Shahrbanian S**, Mowla SJ. MicroRNAs associated with signaling pathways and exercise adaptation in sarcopenia. *Life Sci.* 2021 Nov 15; 285:119926. doi: 10.1016/j.lfs.2021.119926. Epub 2021 Sep 2. PMID: 34480932.
- 2- Heidari Z, **Shahrbanian S**, Chiu C. Massage therapy as a complementary and alternative approach for people with multiple sclerosis: a systematic review. *Disabil Rehabil.* 2021 Aug 1:1-12. doi: 10.1080/09638288.2021.1949051.
- 3- Ehtesham, N., **Shahrbanian, S.**, Valadiathar, M. Mowla, SJ. Modulations of obesity-related microRNAs after exercise intervention: a systematic review and bioinformatics analysis. *Mol Biol Rep*; 2021. <https://doi.org/10.1007/s11033-021-06275-3>
- 4- **Shahrbanian S**, Yavari Kateb M, Doyle-Baker P & Hassani F (2021). Physical activity for children with autism spectrum disorder during COVID-19 pandemic, *International Journal of Developmental Disabilities*, DOI: 10.1080/20473869.2021.1961205
- 5- Jahangiri M, **Shahrbanian S**, Hackney AC. Comparison of the Effects of 12 Weeks of 3 Types of Resistance Training (Traditional, Circular and Interval) on Pro-Inflammatory Markers in Nonathletic Men with Obesity. *Altern Ther Health Med.* 2021 Nov 30:AT6980. Epub ahead of print. PMID: 34847073.
- 6- Jahangiri, M., **shahrbanian, S.**, C. Hackney, A. Changes in the Level of Asprosin as a Novel Adipocytokine after Different Types of Resistance Training. *Journal of Chemical Health Risks*, 2021; 11(Special Issue: Bioactive Compounds: Their Role in the Prevention and Treatment of Diseases): 179-188. doi: 10.22034/jchr.2021.1935792.1361
- 7- Yavari Kateb M., Moghadas Y., **Shahrbanian, S.** (In Press). Enhancement of Visuospatial Working Memory by Transcranial Direct Current Stimulation (tDCS) on Prefrontal and Parietal Cortices. *Basic and Clinical Neuroscience*. Just Accepted publication Sep. 28, 2021. Doi: <http://dx.doi.org/10.32598/bcn.2021.3275.1> DOI: <http://dx.doi.org/10.32598/bcn.2021.3275.1>

- 8- Alizadeh M, **Shahrbanian S**, Hackney A. Comparison of the effects of 12 weeks of three types of resistance training (traditional, circular and interval) on the levels of neuregulin 4, adiponectin and leptin in non-athletic men with obesity. Accepted (in press) *Archivos De Medicina Del Deporte*. 2021
- 9- **Shahrbanian S**, Alikhani S, Ahmadi Kakavandi M, Hackney AC. Physical Activity for Improving the Immune System of Older Adults During the COVID-19 Pandemic. *Altern Ther Health Med*. 2020 Aug; 26(S2):117-125. PMID: 33245704.
- 10- Hassani, F., Sheikh, M. **Shahrbanian, S.** The physical literacy and children with autism, *Early Child Development and Care*, DOI: 10.1080/03004430.2020.1766452
- 11- Mohtasham, H., **Shahrbanian, S.**, Mohtasham, M. Home-based activities guidelines for multiple sclerosis patients during COVID-19 quarantine. *Journal of Rehabilitation Sciences & Research*, 2021; doi: 10.30476/jrsr.2021.89410.1130
- 12- **Shahrbanian, S.**, Ahmadi, M., Rezvani rad, M., Hackney, A. The Role of Physical Activity in Children with Type 1 Diabetes during Quarantine and COVID-19 Pandemic: Narrative review. *Journal of Rehabilitation Sciences & Research*, 2021; doi: 10.30476/jrsr.2021.90698.1152
- 13- Zeinab Bazvand, Sedigheh Sadat Tavafian, Sahar Boozari, Shahnaz Shahrbanian, Faezeh Moeini Badi, (2021). Effect of a Virtual Educational-Training Program on Behavioral Changes Related to Preventing Neck Pain Strategies among Nurses Working in Lorestan Province, Iran, *International Journal of Musculoskeletal Pain prevention*, 6 (2), 510-516.
- 14- Jamali, A., **Shahrbanian, S.**, Morteza Tayebi, S. The Effects of Exercise Training on the Brain-Derived Neurotrophic Factor (BDNF) in the Patients with Type 2 Diabetes: A Systematic Review of the Randomized Controlled Trials. *Journal of Diabetes and Metabolic Disorders* 2020.
- 15- Hassani, F., **Shahrbanian, S.**, Shahidi, S.H., Sheikh, M. Playing games can improve physical performance in children with autism *International Journal of Developmental Disabilities* 2020.
- 16- Kalani N., **Shahrbanian S.**, Riahi Z. Effects of resistance training with theraband on pain and quality of life in patients with knee osteoarthritis. *JBRMS*. 2020; 7 (3):26-35)
- 17- Bazvand Z., Tavafian S.S., Boozari S., **Shahrbanian S.** Ergonomic and At-work Exercises based Educational Program among Nurses Working in Hospital: a Protocol Design regarding Neck Disorders Prevention. *International Journal of Musculoskeletal Pain Prevention*. 2020; 5(2): 318-328.
- 18- Barati, A.A., Rajabi, R., **Shahrbanian, S.**, Sedighi, M. Investigation of the effect of sensorimotor exercises on proprioceptive perceptions among children with spastic hemiplegic cerebral palsy *Journal of Hand Therapy* 2020.
- 19- **Shahrbanian S.** Methodological challenges in measuring pain and how to overcome them. *J Bas Res Med Sci* 2019; 6(4):52-65.
- 20- **Shahrbanian S.** Hashemi A. Hemayattalab, R. The comparison of the effects of physical activity and neurofeedback training on postural stability and risk of fall in elderly women: A single-blind randomized controlled trial. *Physiotherapy Theory and Practice*. 2019 Jun 20:1-8. <https://doi.org/10.1080/09593985.2019.1630877>.
- 21- Moghadas Tabrizi Y, Yavari M, **Shahrbanian S**, Gharayagh Zandi H. Transcranial direct current stimulation on prefrontal and parietal areas enhances motor imagery. *Neuroreport*. 2019 Jun 12; 30(9):653-657. doi: 10.1097/WNR.0000000000001253.
- 22- **Shahrbanian S**, Duquete P, Mayo N. Does Type of Pain Predict Pain Severity Changes in Individuals With Multiple Sclerosis? A Longitudinal Analysis Using Generalized Estimating Equations. *J Adv Med Biomed Res*. 2019; 27 (122) :9-15.
- 23- Tarasi Z, Rajabi R, Minoonejad H, **Shahrbanian S.** The Effect of Spine Strengthening Exercises and Posture Training on Functional Thoracic Hyper Kyphosis in Young Individuals. *J Adv Med Biomed Res*. June 2019; 27 (121) :23-31.
- 24- Homayounnia Firoozjah, M., Sheikh, M., Hemayattalab, R. **Shahrbanian S.** The influence of environment potentiality (affordances) on motor development in 6–9 years old children with intellectual disability. *Sport Sciences for Health*, May 2019; 15:497–502. <https://doi.org/10.1007/s11332-019-00535-3>.
- 25- Sheikhoseini R, **Shahrbanian S**, Sayyadi P, O'Sullivan K. The effectiveness of therapeutic exercise on forward head posture: a systematic review and meta-analysis. *Journal of Manipulative and Physiological Therapeutics*. *Journal of Manipulative and Physiological Therapeutics*.2018; 41:530-539.
- 26- **Shahrbanian S**, Duquette P, Mayo NE. Impairment, disability and fatigue in multiple sclerosis. *Caspian J Intern Med* 2018; 9(3): 244-251.

- 27- Allafan N, **Shahrbanian S**, Rajabi R, Minoonejad H, Bayati M. Comparison of Perceived Musculoskeletal Discomfort Among Six Common Postures for Laptop Use in Female Students. *Physical Treatments*. 2018; 8(1):37-44. <http://dx.doi.org/10.32598/ptj.8.1.37>
- 28- Mahdavi Mohtasham H, **Shahrbanian S**, Khoshroo F. Epidemiology and history of knee injury and its impact on activity limitation among football premier league professional referees. *The Journal of Injury and Violence Research*. 2018,10 (1):45-52.
- 29- Ghaffari R, Rajabi R, **Shahrbanian S**, Barati AH. Effect of 8-Week Aquatic, Land-Based and Combined (Aquatic-Land) Training Programs on Walking Capacity in Women with Multiple Sclerosis (MS): A Burdenko Method. *International Journal of Applied Exercise Physiology*. 2017; 6(3): 1-8.
- 30- **Shahrbanian S**; Duquette P; Kuspinar A; Mayo N. E. What does pain in MS feel like? A multicenter cross-sectional study of pain descriptors and characteristics. *Internal medicine and care*. 2017; 1(2): 1-8.
- 31- **Shahrbanian S**, Duquette P, Ahmed S, Mayo NE. Pain acts through fatigue to affect participation in individuals with multiple sclerosis. *Quality of Life Research Journal*. 2016;25(2):477-91.
- 32- **Shahrbanian S**; Duquette P; Kuspinar A; Mayo N. E. Consequences of symptom cluster in individuals with multiple sclerosis. *Quality of Life Research Journal*; 2015;24(3):617-29.
- 33- **Shahrbanian S**; AuaisM; Duquette P; Andersen K; Mayo N. E. Does Pain in Individuals with Multiple Sclerosis Affect Employment? A Systematic Review and Meta-analysis. *Journal of Pain Research and Management* 2013; 18 (5): 94-100.
- 34- **Shahrbanian S**; Ma X; Aghaei N; Korner-Bitensky N; Moshiri K; Simmonds MJ. Use of virtual reality (immersive vs. non immersive) for pain management in children and adults: A systematic review of evidence from randomized controlled trials. *European Journal of Experimental Biology* 2012, 2 (5): 1408-22.
- 35- Aghaei N; Moshiri K; **Shahrbanian S**. Relationship between organizational justice and job burnout in employees of the Sport and Youth Association of Tehran. *Advances in Applied Science Research*, 2012, 3 (4): 2438-2445.
- 36- Aghaei N; ZiaeeA; **Shahrbanian S**. Relationship between learning organization and organizational commitment among employees of Sport and Youth Head Office of western provinces of Iran. *European Journal of Sports and Exercise Science* 2012, 1(3): 59-69.
- 37- Aghaei N, Moshiri K, and **Shahrbanian S**. Relationship between organizational justice and intention to leave in employees of Sport and Youth Head Office of Tehran. *European Journal of Experimental Biology* 2012, 2 (5): 1564-1570.
- 38- Powell W; Simmonds M; Simmonds K; **Shahrbanian S**; Dereghezian T; Stevens B. Treadmill walking in virtual reality vs. overground walking: a comparison of gait in individuals with and without pain. *Frontiers in Neuroengineering* 2009. DOI: 10.3389/conf.neuro.14.2009.06.080.
- 39- Simmonds MJ; **Shahrbanian S**. Effects of different virtual reality environments on pain threshold in individuals with pain following stroke. *Proceeding of ICDVRAT*; 2008. ISBN: 0704915006.

گزیده ای از مقالات چاپ شده به زبان فارسی

- ۱- آرمان فر محمد صادق، شهربانیان شهناز، یوسفوند سمیه، کاظمی مهدیه، صبوری سمیه. فعالیت های ورزشی، تغذیه و سلامت روانی افراد جامعه در زمان شیوع بیماری کووید-۱۹: مطالعه مروری. *مجله علمی پژوهشی یافته*. ۱۴۰۰؛ ۲۳ (۴): ۱۵-۳۰.
- ۲- طهماسبی بروجنی شهزاد، احمدی کاکاوندی مینا، قیصری سید فردین، شهربانیان شهناز. تأثیر تصویرسازی پتلمپ و تمرین فیزیکی بر فاکتور نروتروفین مشتق شده از مغز (BDNF) و عملکرد حافظه بیماران مبتلا به مالتیپل اسکلروزیس. *مجله علمی دانشگاه علوم پزشکی ایلام* دوره ۲۸، شماره ۶، اسفند ۹۹
- ۳- نرگس عابدینی، مهدیه ملانوری شمسی، شهناز شهربانیان، تأثیر تمرین هوای بر سایتوکاین های التهابی، کیفیت زندگی و عزت نفس در زنان دارای اضافه وزن. *مطالعات کاربردی تندرستی در فیزیولوژی ورزش* دوره ۷، شماره ۱
- ۴- نسترن طالبی؛ هومن مینونژاد؛ شهناز شهربانیان؛ محمد هانی منصوری. مقایسه تعادل و کارایی سیستم بینایی و سیستم دهلیزی در کنترل پاسجر بین شناگران و فوتبالیست ها و غیرورزشکاران. دوره ۹، شماره ۲، تابستان ۱۳۹۹، صفحه 178-187 10.22037/JRM.2019.111682.2087
- ۵- زینب بازوند، صدیقه سادات طوافیان، سحر بودری، شهناز شهربانیان، طراحی و روان سنجی پرسش نامه سنجش آگاهی، نگرش و عملکرد پرستاران جهت پیشگیری از درد گردن، *مجله آموزش پرستاری* ۱۳۹۹. ۹ (۱)

- ۶- محمود شیخ، معصومه آفاسلیمانی نجف آبادی، **شهنواز شهربانیان**، سید محمدرضا علوی زاده. بررسی اثربخشی نوروفیدبک همراه با یک دوره برنامه تمرینی منتخب بر عملکرد حرکتی، اضطراب و خواب کودکان. مقالات آماده انتشار، پذیرفته شده، انتشار آنلاین از تاریخ 26 بهمن ۱۳۹۹. 10.22037/JRM.2021.114827.2612
- ۷- افسانه جمالی، **شهنواز شهربانیان**. اثرات تمرینات ورزشی بر اختلال عملکرد شناختی بیماران مبتلا به ویروس کرونا و توصیه های ورزشی جهت ریکاوری آنها، پذیرفته شده برای چاپ در مجله رازی دانشگاه علوم پزشکی ایران. تابستان ۱۴۰۰
- ۸- تقی بیک زاده بدر پیمان، شیخیز فاطمه، **شهربانیان شهنواز**، بررسی بیان ایزوفرمهای PGC-1 آلفا در پاسخ به تمرینات مقاومتی اکسنتریک و کانسنتریک در افراد سالم، علوم زیستی ورزشی، زمستان ۱۳۹۸، دوره ۱۱، شماره ۴، صفحه ۴۴۷-۴۶۲
- ۹- بازوند زینب، طوافیان صدیقه السادات، بوذری سحر، **شهربانیان شهنواز**. طراحی و روان سنجی پرسش نامه سنجش آگاهی، نگرش و عملکرد پرستاران جهت پیشگیری از درد گردن. آموزش پرستاری. ۱۳۹۹؛ ۹ (۱): ۱-۱۰
- ۱۰- آرمان فر محمد صادق، رجبی رضا، **شهربانیان شهنواز**، علیرزاده محمد حسین. تعیین نورم غربالگری حرکتی عملکردی (FMS) در دانش آموزان پسر ۱۷ تا ۱۵ ساله استان لرستان. مجله علمی پژوهشی یافته. ۱۳۹۹؛ ۲۲ (۱): ۱-۱۲
- ۱۱- یآوری کاتب، میثم، مقدس تبریزی یوسف، **شهربانیان شهنواز**. اثرات تحریک الکتریکی فراجمجمه ای بر چرخش ذهنی تصاویر دست و حافظه دیداری فضایی. عصب روانشناسی، بهار ۱۳۹۸، ۱ (۱۶): ۳۷-۵۴
- ۱۲- یآوری کاتب، میثم، مقدس تبریزی یوسف، **شهربانیان شهنواز**، غرایق زندی حسن و به جامه فاطمه. اثرات تحریک الکتریکی فراجمجمه ای بر توانایی تصویرسازی دانشجویان. پژوهشهای کاربردی روانشناختی (روانشناسی و علوم تربیتی سابق) دانشگاه تهران. ۱۳۹۷، ۹ (۲): ۱۱۷-۱۳۵
- ۱۳- **شهربانیان شهنواز**، هاشمی ایوب. تاثیر تمرینات ثابت مرکزی بر تعادل و زمان واکنش کودکان با اختلال هماهنگی رشدی. پژوهش در مدیریت ورزشی و رفتار حرکتی. ۱۳۹۷؛ ۸ (۱۶): ۸۳-۹۱
- ۱۴- هاشمی ایوب، **شهربانیان شهنواز**. تاثیر تمرینات یکپارچگی حسی- حرکتی بر مهارت های حرکتی درشت کودکان با اختلال هماهنگی رشدی. نشریه علوم پزشکی سبزوار، دوره ۲۵، شماره ۳، مرداد و شهریور ۱۳۹۷، صفحه ۴۱۹-۴۲۷
- ۱۵- عسگری سید مجتبی، **شهربانیان شهنواز**. تأثیر یک برنامه گرم کردن متشکل از تمرینات پلايومتریک، قدرتی و کشش های فعال بر حفظ سلامت جسمانی بازیکنان فوتبال مرد جوان با رویکرد پیشگیری از بروز آسیب های زانو و مچ پا. آموزش بهداشت و ارتقای سلامت. ۱۳۹۷؛ ۶ (۴): ۱۳۰-۴۲
- ۱۶- همایون نیا فیروزجاه مرتضی، شیخ محمود، حمایت طلب رسول، **شهربانیان شهنواز**. تأثیر فراهم سازی (محیط آموزشی و فعالیت بدنی) محیط روی بهبود حرکتی کودکان دارای اختلالات ذهنی. ارمغان دانش. ۱۳۹۷؛ ۲۳ (۳): ۳۳۴-۳۴۹
- ۱۷- عسگری سیدمجتبی؛ علیرزاده محمدحسین؛ **شهربانیان شهنواز**. تأثیر برنامه گرم کردن (+۱۱) بر پیشگیری از آسیب، میزان چابکی و سرعت دربیلبینگ بازیکنان فوتبال مرد جوان. فیزیولوژی ورزشی کاربردی ۱۳۹۷؛ ۱۴ (۲۷): ۲۰۹-۲۲۲
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مسئولیت های اجرایی و اجتماعی

۱. نایب رئیس فدراسیون اسکواش جمهوری اسلامی ایران
۲. عضو کمیته آسیب شناسی و حرکات اصلاحی وزارت علوم
۳. عضو کمیته آموزش و پژوهش فدراسیون ورزشهای نابینایان و کم بینایان
۴. نماینده کمیسیون انجمن های علمی وزارت علوم
۵. ناظر وزارت علوم در آزمون ورودی تربیت بدنی دانشگاههای کشور
۶. مشاور مدیریت برنامه ریزی، گسترش و بازنگری دانشگاه تربیت مدرس
۷. عضو کمیته ساماندهی گروههای آموزشی و رشته های دانشگاه تربیت مدرس
۸. عضو دیده ور شورای آموزشی دانشگاه تربیت مدرس
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- 2- **Shahrbanian S**, N Aghaei. What is the best home-based walking exercise prescription for people with multiple sclerosis? A randomized controlled clinical trial. Paris, France, October 25-28, 2017.
- 3- Mahdavi M, **Shahrbanian S**. An Investigation of Knee Injury Risk Factors Among Soccer Referees. The 10th International Conference on Sport Sciences, Tehran, IRAN, April 2017.
- 4- Seyed mojtaba Asgari MS, Mohammad Hossien Alizadeh, **Shahrbanian S**. Effect of modified 11+ warm up program on injury prevention- agility and dribbling speed in young male soccer players. The 10th International Conference on Sport Sciences, Tehran, IRAN, April 2017.
- 5- Pourazar M, Hemayattalab R, Bagherzadeh F, Hoominian D, **Shahrbanian S**, Improvement of joint position sense through virtual training in hemiplegic children. The 10th International Conference on Sport Sciences, Tehran, IRAN, April 2017.
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- 8- **Shahrbanian S**, Duquette P, Kuspinar A, Mayo N. E. Consequences of symptom cluster in individuals with multiple sclerosis. Neuroinflammation Symposium, June 6, 2013.
- 9- **Shahrbanian S**, Duquette P, Kuspinar A, Mayo N. E. Symptom cluster in individuals with multiple sclerosis. Health Outcomes Research Day 2013: Rocky Road: Ice Cream or Research Reality? McGill University Health Outcomes Axis with the McGill Division of Geriatrics, May 16, 2013.
- 10- Hum S, Mayo N, Kuspinar A, **Shahrbanian S**, Asano M, Bartlett S, Moriello C. Getting on with your life with MS: A knowledge translation tool. Interactive Day. April 16, 2012, McGill University.
- 11- **Shahrbanian S**, Duquette P, Kuspinar A, Teng Sh.Y, Mayo N. E. Which pain indicators are most associated with walking capacity in individuals with multiple sclerosis? 28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis. October 10- 13, 2012. Loynes France.

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- 13- **Shahrbanian S**; Mayo N. E; Duquette P; Kuspinar A; Teng Sh. Y. Calling Pain Pain: What Should We Ask MS Patients about Pain Severity? 7th Annual Symposium of Neuroinflammation Training Program. May 11, 2012, New Residence Hall, 3625 Avenue du Parc, Montreal, QC, Canada.
- 14- **Shahrbanian S**; Mayo N. E; Duquette P; Kuspinar A; Teng Sh. Y. Calling Pain Pain: What Should We Ask MS Patients about Pain Severity? ANNUAL RESEARCH DAY Health Outcomes Axis with the McGill Division of Geriatrics, MUHC Research Institute. May 15, 2012, Montreal, QC, Canada.
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- 18- **Shahrbanian S**; Mayo N. E; Anderson K; Bartlett S; and Duquette P. Pain and employment in people with multiple sclerosis: Review. 15th Annual McGill Pain day, January 20, 2011, Residence Hall, McGill University.
- 19- **Shahrbanian S**; Mayo N. E; Anderson K; Bartlett S; and Duquette P. Effects of pain on employment in people with multiple sclerosis (structured review). End MS Conference, December 6-9, 2010, Whistler, BC, Canada.
- 20- **Shahrbanian S**; Mayo N. E. Methodological challenges in measuring pain. QNJPI annual meeting- Hot Topics in Pain Research, October 8, 2010, McGill University, Montréal, QC, Canada.
- 21- **Shahrbanian S**; Mayo N. E. Methodological challenges in measuring pain: with focus on individuals with multiple sclerosis. 13th World Congress on Pain, August 30 – September 2, 2010, Montréal, QC, Canada.
- 22- **Shahrbanian S**; Kuspinar A; Teng Sh. Y; Mayo N. E. The impact of multiple sclerosis (MS) severity, pain, fatigue, and general health on walking capacity in individuals with MS. Conférencescientifique du REPAR. May 7, 2010, Montréal, QC, Canada.
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- 24- **Shahrbanian S**; Kuspinar A; Teng Sh. Y; Mayo N. E. Self-reported health and symptoms explain walking capacity in people with Multiple Sclerosis. International Society for Quality of Life Research (ISOQOL) 16th Annual Conference, October 28-31, 2009, New Orleans, LA, USA.
- 25- **Shahrbanian S**; Ma, X; Korner-Bitensky Nicol; and Simmonds Maureen J. Scientific evidence for the effectiveness of virtual reality for pain reduction in adults with acute or chronic pain. 14th Annual CyberTherapy and CyberPsychology conference. June 21-23, 2009, Lago Maggiore, Verbania-Intra, Italy.
- 26- Powell W, Simmonds M, Simmonds K, **Shahrbanian S**, Dereghezian T and Stevens B (2009). Treadmill walking in virtual reality vs overground walking: a comparison of gait in individuals with and without pain. 14th Annual CyberTherapy and CyberPsychology conference. June 21-23, 2009, Lago Maggiore, Verbania-Intra, Italy.
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- 29- **Shahrbanian S**; Kuspinar A; Teng Sh. Y; Mayo N. E. Walking capacity in people with Multiple Sclerosis. The 9th Annual Scientific Meeting of Iranian Pain Society/ First International Meeting of Pain. May 9-13, 2009, Anzali, Iran.
- 30- Simmonds, M, J; **Shahrbanian S**; Powell W; Powell, V. The Holodeck Comes Alive: The Effectiveness of Virtual Reality on Pain, Mood, and Movement. International Physiotherapy Conference, University of Pretoria, Pretoria, South Africa, October 1-9, 2008.
- 31- **Shahrbanian S.**, Simmonds, M. Effects of Different Virtual Reality Environments on Experimental Pain Rating in Post-Stroke Individuals with and without Pain in Comparison to Pain Free Healthy Individuals. 13th Annual CyberTherapy Conference San Diego, USA, June 23- 25, 2008.
- 32- Simmonds, M, J; **Shahrbanian S.** Differences in physical performance, mood and emotional factors between stroke patients with and without pain in comparison to pain free healthy individuals. Pain, Mind and Movement II Conference, Dublin, Ireland, August 13 - 15, 2008.
- 33- Simmonds, M, J; **Shahrbanian S.** Differential Effects of Virtual Reality Environment on Experimental Pain Threshold to Heat and Cold in Post-Stroke Individuals with and Without Pain. 12th World Congress on Pain, Glasgow, Scotland, UK, August 17-22, 2008.
- 34- Simmonds, M, J; **Shahrbanian S.** Effects of different virtual reality environments on experimental pain threshold in individuals with pain following stroke. 7th International Conference Series on Disability, Virtual Reality and Associated Technologies, Maia, Portugal, September 8 -10, 2008.
- 35- **Shahrbanian S.**, Simmonds, M. Effects of Virtual Reality on Experimental Pain Rating in Post-Stroke Individuals with and without Pain. Conférencescientifique du CRIR, May 2009, Montréal, QC, Canada.
- 36- **Shahrbanian S.**, Farahpour, N. Exercise and prevention of low back pain, International Congress of Sport Science. 2001, Shiraz, IRAN.
- 37- **Shahrbanian S**; Farahpour, N; Garshasbi A. The effects of a specific exercise program on the spine kinematics, 2nd International Congress of Sport Science, Tehran, IRAN, 2000 (Oral presentation).
- 38- **Shahrbanian S**; Farahpour, N; Garshasbi A. Exercise and Kinematics of Spine. The 1st Regional (Asian) seminar in Sport & the environment, Tehran, IRAN, 2000.

Software Experience

- 1- Comprehensive Meta-Analysis Software (**CMA**), since 2010
- 2- Muthen&Muthen Advanced Statistical Software (**Mplus**), since 2012
- 3- Rasch Uni-dimensional Measurement Models (**RUMM 2020**), since 2012
- 4- Advanced Analytics Statistical Systems (**SAS**), since 2009
- 5- Reference Manager (**RefMan**), since 2009
- 6- Reference Management Software (**EndNote**), since 2007
- 7- Statistical Package for the Social Sciences (**SPSS**), since 1997

International Editorial Board Member

- 1- SL Clinical Medicine: Research, since December 2016
- 2- Neurological Disorders & Epilepsy Journal, since September 2016
- 3- JSM Physical Medicine and Rehabilitation, since September 2016
- 4- Journal of Medical Case Reports, since September 2015

International Journal Reviewer

- 1- Quality of life research, JCR, Since 2019
- 2- Annals of Sports Medicine and Research, JCR, Since 2019
- 3- Medical Science Review (MSR), Since January 2016
- 4- Behavioral Sleep Medicine, Since November 2015
- 5- European Journal of Neurology, since August 2015. EJON is one of Thomson Reuters ISI Web of Science journals.
- 6- Journal of Medical Research Archives, since March 2015
- 7- The New England Journal of Medicine (NEJM), JCR, since February 2015
- 8- Palliative Care & Medicine, since October 2014
- 9- International Journal of Neuro-rehabilitation, since October 2014
- 10- International Journal of Physical Medicine & Rehabilitation, since September 2014
- 11- Journal of Neurosciences in Rural Practice, since September 2014
- 12- Journal of Pain Medicine, since October 2013
- 13- International medical journal of experimental and clinical research, since March 2012
- 14- Journal of Medical Science, since January 2012

Reviewer for Persian Language Journals

- 1- Journal of Studies in Sport Medicine, Sport Sciences Research Institute of IRAN, since June 2016
- 2- Journal for Sport Medicine, Tehran University, since January 2016
- 3- Journal of Research in Sport Rehabilitation, Hamedan University, since September 2015
- 4- Medical Journal of the Islamic Republic of Iran (MJIRI), since November 2014

Intensive Statistical Courses & Programs

- 1- Advance topics in structural equation modeling (SEM). Quebec Inter-University Centre for Social Statistics (QICSS), University of Montreal, May 2012, Montreal, Quebec, Canada.
- 2- Advanced topics in Rasch Analysis- RUMM 2020. Department of Epidemiology & Biostatistics, June 2012, McGill University, Montreal, Quebec, Canada.
- 3- Advanced Psychometric Methods for Patient reported outcome (PRO) Development. International Society for Quality of Life Research. October 2011, Denver, Colorado, USA.
- 4- Multivariate Statistical Methods: Practical Research Applications, SAS education center, Sep 2011, New York, NY, USA.

- 5- Rasch Analysis using RUMM 2020. Department of Epidemiology & Biostatistics, McGill University, March, 2011, Montreal, Quebec, Canada.
- 6- Path Analysis and Latent Class Analysis. Ross pavilion, Department of Clinical Epidemiology, McGill University, February 2011, Montreal, Quebec, Canada.
- 7- Introduction to structural equation modeling (SEM). Quebec Inter-University Centre for Social Statistics (QICSS), Burnside Hall, McGill University, Feb 2011, Montreal, Quebec, Canada.
- 8- Systematic Reviews and Meta-analysis. Department of Epidemiology & Biostatistics and Occupational Health, May 2010, McGill University, Montreal, Canada.
- 9- Everything about modern psychometric methods. ISOQOL, October 2009, New Orleans, LA, USA.

Research Ethic Board Intensive Courses&Programs

- 1- Beginning in Research Ethics? Guiding You in the Right Direction: Informed Consent: *A) The Document*. September 2012, Royal Victoria Hospital, Montreal, Canada.
- 2- Beginning in Research Ethics? Guiding You in the Right Direction: Informed Consent: *B) the Process with Adults*. September 2012, Royal Victoria Hospital, Montreal, Canada.
- 3- Ethical Issues in Qualitative Research: November, 2012, MUHC, Royal Victoria Hospital, Montreal, Canada.
- 4- How Best to Recruit and Communicate with Research Participants: An Experiential Learning Approach to Research Ethics, November, 2012, Royal Victoria Hospital, Montreal, Canada.
- 5- Research Ethics Review during an Emergency. Royal Victoria Hospital, McGill university health Center, September, 2011, Montreal, Canada.

Statistical and Research Methods Certifications

- 1- Statistical issues and results interpretation in MS clinical trials. August 29, 2013. Montreal Neurological Institute, Montreal, Canada.
- 2- Approaches to Missing Data: The Good, the Bad, and the Unthinkable. May 1, 2013. Montreal Neurological Institute, Montreal, Canada.
- 3- Achieving Research Excellence: Making Your Abstract Measure Up. March 27, 2013. Montreal Neurological Institute, Montreal, Canada.
- 4- Modern Methodological Reasoning: Generating Researchable Questions. Montreal Neurological Institute, August 8th, 2011, Montreal, Quebec, Canada.
- 5- Bayesian techniques for bias adjustment in epidemiologic and health studies. Department of Clinical Epidemiology, Biostatistics and Occupational Health. June 14th 2010, McGill University, Montreal, Canada.
- 6- How to do Reviews /Systematic Reviews. School of Physical and Occupational Therapy, Graduate Rehabilitation. April 2009, McGill University, Montreal, Canada.
- 7- Framework (PRO-QOL). Eastern Canada Health Outcomes Meeting (ECHO). McGill University Health Centre. Montreal, Quebec, Canada. June 8-9, 2009.
- 8- Theoretical Statistics, 6th Iranian International Statistics Conference, Tehran, IRAN, Aug 2002.

Teaching Experience

- 1- Tehran University (Courses for PhD students included: Research Methods, Advanced Biostatistics, Adapted Physical Activity and Disability Sport, English for Behavioral Science. Courses for Master students included: Research Methods, Principal of Rehabilitation and Physiotherapy, Advanced Biostatistics, Disability Sport, Tehran, Iran, Fall2014-present.
- 2- Tarbiat Modares University (Courses for PhD students included: Research Methods, Advanced Biostatistics), Tehran, Iran, Fall2015.
- 3- Bu Ali Sina University (Courses for PhD students included: Research Methods &Advanced Biostatistics, and Patho-Kinesiology. Courses for Master students included: English as second language Course, Research Methods and Statistics, Advanced Computer Science, Principal of Human Movement, Rescue in Sport Injuries, and Disability Sport), Hamedan, Iran, since 2014.
- 4- Bu Ali Sina University (Courses for undergrad students included: Human Anatomy, Kinesiology, Sport and Health, Research Methods and Statistics, Physical Fitness, Basketball, Badminton, Ping Pong), Hamedan, Iran, 2001- 2014.
- 5- Islamic Azad University (Courses included: Physical Fitness, Basketball, Badminton, Ping Pong), Tehran, Iran, 1999-2000.

Research Experience

- 1- MSTEP Project (effect of exercise on MS: RCT). CHUM, Royal Victoria Hospital, 2010- 2011, Montreal, Quebec, Canada.
- 2- Getting on with your life with MS: A Knowledge Translation Tool. CHUM, Royal Victoria Hospital, 2010- 2011, Montreal, Quebec, Canada.
- 3- The influence of visual and auditory cues on walk speed in a treadmill-mediated virtual environment for locomotors rehabilitation. Montreal, Jewish Rehabilitation Hospital, June 2008 to December 2008.
- 4- Virtual Reality for pain reduction in Stroke patients. Montreal, Jewish Rehabilitation Hospital, May 2007 to April 2008.

Workshop Speaker

- 1- One-day intensive workshop on SPSS. Tehran University, Faculty of Physical Education and Sport Science. Tehran, IRAN. May 2017.
- 2- One-day intensive workshop on SPSS. Tehran University, Faculty of Physical Education and Sport Science. Tehran, IRAN. June 2016.
- 3- Two-day intensive workshop on Meta-Analysis. Tehran University, Faculty of Physical Education and Sport Science. Tehran, IRAN. February 2016.
- 4- One-day intensive workshop on Systematic Review. Tehran University, Faculty of Physical Education and Sport Science. Tehran, IRAN. February 2016.
- 5- One-day workshop on “How to work with CMA 3 software?” Tehran University, Faculty of Physical Education and Sport Science. Tehran, IRAN. February 2016.
- 6- Two-day intensive workshop on Meta Analysis. Bu Ali Sina University, Faculty of Physical Education and Sport Science. Hamedan, IRAN. May 2015.
- 7- One-day intensive workshop on Systematic Review. Bu Ali Sina University, Faculty of Physical Education and Sport Science. Hamedan, IRAN. May 2015.

- 8- Pain and Multiple Sclerosis. McGill University, School of Physical and Occupational Therapy, Research Seminar course, Montreal, Quebec, Canada. March 6, 2012.
- 9- Specific exercise program for reduction of low back pain in women. Women Society of the Ministry of Health of Iran, Tehran, Iran. September 2000.

Workshop certificates

- 1- Outcome Measurement Selection in Individuals with Spinal Cord Injury. Sponsored by the Center for Rehabilitation Outcomes Research (CROR) and supported by a grant from the Paralyzed Veterans of America Education Foundation, May 15th, 2015.
- 2- Analysis of Complex Sample Surveys Made Simple, Webinar, The Analysis Factor, NY, USA, May 7, 2014.
- 3- Effect Size Statistics. Webinar, the Analysis Factor, NY, USA, March 19, 2014.
- 4- Using Client-Centered Practice & Patient-Reported Outcomes. Webinar, The Retirement Research Foundation (RRF) and the Center for Rehabilitation Outcome Research (CROR). Canada, January 2014.
- 5- Multiple Sclerosis & Genetics. Montreal Neurological Institute, Montreal, Canada. January 31, 2013.
- 6- T-Cell Responses and Autoimmunity. Montreal Neurological Institute, Montreal, Canada. February 7, 2013.
- 7- SKILLSETS - Learning to Teach, McGill University, Montreal, Canada. November 10, 2012.
- 8- Gender differences in MS (genetic aspects and gender differences in disease onset and progression, the immune system and response to immunotherapy, effects of sex hormones, and the menstrual cycle and pregnancy on MS). Teaching course (TC 12), The 28th Congress of the European Committee for Research and Treatment in Multiple Sclerosis (ECTRIMS), 10 –13 October 2012, Lyon, France.
- 9- Nutritional Advice and Capacity for Exercise, 3rd international congress on Physical Education, Tehran, Iran, 2002.
- 10- Control and Evaluation of Sports Activities, Hormozgan University, Bandar Abbas, IRAN, 2002.
- 11- Management of Sport Competition Tables, Tarbiat Modares University, Tehran, Iran, 2002.
- 12- Basis and Applying of Information Technology, Tarbiat Modares University, Tehran, Iran, 2002.
- 13- The application of force plate in Clinical Biomechanics, Tehran, IRAN, 2001.
- 14- Physical Therapy in sports injuries, Sport Sciences Research Center, Tehran, Iran, 2001.
- 15- The application of computer in sport science, Khajeh Nasir University, Tehran, IRAN, 1999.
- 16- The application of Internet in sport science, Sport Sciences Research Center, Tehran, IRAN, 1999.
- 17- Medical control of training, Tarbiat Modares University, Tehran, IRAN, 1999.
- 18- National Coaching and Refereeing Certification Program Level III – Army Handball Team, since 1995.
- 19- National Coaching and Refereeing Certification Program Level III – Physical Fitness, since 1995.
- 20- Refereeing Certification Program Level III – Volleyball, since 1995.