Sina Mehdizadeh

[Meh-dee-zä-deh]
Curriculum Vitae, August 2020

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Highlights

- 2 grants, 4 fellowships, and 6 awards
- 22 journal publications, 2 book chapters
- Several teaching and mentoring experiences
- Formal education on teaching in higher education
- International collaborators
- Toronto Rehab's internal reviewer of CIHR Project Grants
- Member of the CIHR College of Reviewers
- CIHR reviewer of doctoral fellowships
- Certificate of rTMS operation
- Certificate of 2020 Neuromatch summer school on Computational Neuroscience

Research Interests: Neuromechanics of locomotion**,** computational neuroscience, gait biomechanics, dynamic stability of gait, rehabilitation, fall prevention, movement variability

Current position

Oct 2018 - present **Postdoctoral Fellow-** *Toronto Rehabilitation Institute, Toronto, ON, Canada***.**

Achievements:

- 4 published papers
- 2 grants as co-investigator
- 2 fellowships
- 2 teaching certificate
- Mentoring students

Education

2014 **Ph.D., Biomedical Engineering-Biomechanics-** *Amirkabir University of Technology, Tehran, Iran*

- GPA: 4.0/4.0. Thesis: Identification of Skill Characteristics of Soccer Players in

Agility Using Linear and Nonlinear Analysis of Movement Kinematic Variability
- Supervisor: Prof. Ahmed R. Arshi, Amirkabir University of Technology
- Advisor: Prof. Keith Davids, Sheffield Hallam University

2009 **MSc., Biomedical Engineering-Biomechanics-** *Amirkabir University of Technology, Tehran, Iran*
- GPA: 4.0/4.0

2007 **BSc., Biomedical Engineering-Biomechanics-** *Amirkabir University of Technology, Tehran, Iran*
- GPA: 3.0/4.0
- Ranked among top 0.5% in the entrance exam
- Amirkabir University of Technology rankings:
- Top three Universities in Iran, No. 1 in Biomedical Engineering
- 2014 Shanghai World University Rankings: 150-200
- For further details, see: https://en.wikipedia.org/wiki/Amirkabir_University_of_Technology

Employment

A. Research

Sep 2016- Sep 2018 **Senior Biomechanist-** *Biomechanics department, Podium Division, National Sports Institute, Kuala Lumpur, Malaysia.*

Roles:
- Clinical gait assessments
- Writing research proposals
- Conducting Research studies
- Publishing research outcomes

Jun 2015- Sep 2016 **Research Assistant-** *Biomechanics Lab., Rehabilitation Research Center, Department of Rehabilitation Sciences, Iran University of Medical Sciences, Tehran, Iran.*

Achievements:
- Mentoring Graduate students
- Member of the Clinical gait analysis team
- Writing research proposals

B. Teaching *[3 graduate and 2 undergrad courses]*

Jan 2016 – Sep 2016 **Principal Lecturer (Undergrad)-** *Biomedical Engineering Department, Science & Research University, Tehran, Iran.*

Courses:
- Biomechanics (designed the syllabus, slides, assignments, exams, and gave the lectures)
- Rehabilitation Engineering (designed the syllabus, slides, assignments, exams, and gave the lectures)

Fall & Winter 2015 **Co-principal Lecturer (Graduate)-** *Beheshti University, Tehran, Iran.*

Courses:
- Motor Control (co-designed the syllabus, slides, assignments, exams, and gave half of the lectures)

- Biomechanics (co-designed the syllabus, slides, assignments, exams, and gave half of the lectures)

Fall 2010 **Principal Lecturer (Graduate)-** *Ergonomics group, University of Social Welfare & Rehabilitation Sciences, Tehran, Iran.*

Courses:

- CAD/CAM (designed the syllabus, slides, assignments, exams, and gave the lectures)

Spring 2010 **Teaching Assistant (Undergrad)-** *Amirkabir University of Technology, Tehran, Iran.*

Courses:

- Modeling in biomedical engineering

C. Mentoring *[2 PhD students]*

2015-2019 **Banafshe Ghomian**, PhD candidate. Department of Rehabilitation Basic Sciences, Iran University of Medical Sciences, Tehran, Iran. Thesis title: Effect of different rocker sole designs on gait dynamic stability in people with diabetes with and without neuropathy.

2015-2019 **Sadegh Norouzi**, PhD candidate, Department of Physical Therapy, Jondishapoor University, Ahvaz, Iran. Thesis title: Effect of knee osteoarthritis on lower extremity coordination and coordination variability in a drop jump test.

D. Industry

2009 - 2012 **Design, engineering, R&D and CE consultant-** *Attila Orthopaed Co. (orthopedic implants manufacturing company), Tehran, Iran.*

2012 - 2013 **Design, engineering, R&D and QC consultant-** *Pishgaman Co. (orthopedic implants manufacturing company), Tehran, Iran.*

Publications

[2 co-authored book chapters, 22 journal papers (12 first-author, 4 sole author, 1 review paper), and 12 conference abstracts]

[journals: J Biomechanics: 6, Gait & Posture: 2, Human Movement Science: 1, Sports Medicine: 2, J Gerontology Series A: 1, Clinical Biomechanics: 1, JAMDA:1]

Book chapters

1. **Mehdizadeh, S.**, & Moradi, V. Chapter 11: How to run a clinical gait analysis service? In: M.A. Sanjari, Gait: Measuring and Reporting. Setayesh Hasti Publishing, Tehran. 2017. (in Persian)
2. Navvab, F. & **Mehdizadeh, S.**, V. Chapter 12: How to establish and maintain a gait analysis lab. In: M.A. Sanjari, Gait: Measuring and Reporting. Setayesh Hasti Publishing, Tehran. 2017. (in Persian)

Journal papers

Published/in-press

1. **Mehdizadeh, S.**, Ng, K., Sabo, A., Mansfield A., Flint A., Taati, B., Iaboni, A. Predicting short-term risk of falls in a high risk group with dementia. Journal of the American Medical Directors Association. (in press)

2. Sabo, A., **Mehdizadeh**, S., Ng, K. Iaboni, A., Taati, B. Assessment of Parkinsonian gait in older adults with dementia via human pose tracking in video data. J NeuroEngineering Rehabil 17, 97 (2020). https://doi.org/10.1186/s12984-020-00728-9
3. **Mehdizadeh, S.** (2020). Letter to the editor regarding "Accuracy of image data stream of a markerless motion capture system in determining the local dynamic stability and joint kinematics of human gait" by Chakraborty et al. Journal of Biomechanics, 105, 109811, https://doi.org/10.1016/j.jbiomech.2020.109811.
4. Ng, K., **Mehdizadeh, S.,** Iaboni, A., Mansfield, A., Flint, A., Taati, B. Human Pose Estimation to Assess Gait and Fall Risk in Older Adults with Dementia. IEEE Journal of Translational Engineering in Health & Medicine. 8, 1-9 https://doi.org/10.1109/JTEHM.2020.2998326
5. **Mehdizadeh, S.**, Dolatabadi, E., Ng, K., Mansfield A., Flint A., Taati, B., Iaboni, A. (2019). Vision-based assessment of gait features associated with falls in people with dementia. Journal of Gerontology: Medical Sciences. glz187. https://doi.org/10.1093/gerona/glz187
6. Norouzi, S., Esfandiarpour, F., **Mehdizadeh, S.**, Yousefzadeh, N., Parnianpour, P., (2019). Lower extremity kinematic analysis in male athletes with unilateral anterior cruciate reconstruction in a jump-landing task and its association with return to sport criteria. BMC Musculoskeletal Disorders. 20, 492. https://doi.org/10.1186/s12891-019-2893-5 *[my role: co-advisor, wrote the Matlab code, revised the manuscript]*
7. Ghomian, B., Naemi, R., **Mehdizadeh, S.**, et al. (2019). Gait stability of diabetic patients is altered with the rigid rocker shoes. Clinical Biomechanics, 69: 197-204. https://doi.org/10.1016/j.clinbiomech.2019.06.015 *[my role: co-advisor, wrote the Matlab code, revised the manuscript]*
8. Glazier, P., **Mehdizadeh, S.** (2019). In search of sports biomechanics' holy grail: Can athlete-specific optimum sports techniques be identified? Journal of Biomechanics, 94: 1-4. https://doi.org/10.1016/j.jbiomech.2019.07.044 *[my role: co-authored]*
9. Glazier, P., **Mehdizadeh, S.** (2019). Authors' reply to Carson and Collins' comment on: Challenging Conventional Paradigms in Applied Sports Biomechanics Research. Sports Medicine, 49(5): 831-2 https://doi.org/10.1007/s40279-019-01081-1 *[my role: co-authored]*
10. **Mehdizadeh, S.** (2019) A Robust Method to Estimate the Largest Lyapunov Exponent of Noisy Signals: A Revision to the Rosenstein's Algorithm. Journal of Biomechanics, 85(6): 84-91. https://doi.org/10.1016/j.jbiomech.2019.01.013
11. Glazier, P., **Mehdizadeh, S.** (2019) Challenging conventional paradigms in applied sports biomechanics research. Sports Medicine, 49(2): 171-6. https://doi.org/10.1007/s40279-018-1030-1 *[my role: co-authored]*
12. **Mehdizadeh, S.**, Glazier, P. (2018). Order error in the calculation of continuous relative phase. Journal of Biomechanics, 73: 243-8. https://doi.org/10.1016/j.jbiomech.2018.03.032
13. **Mehdizadeh, S.** (2018). The largest Lyapunov exponent of gait in young and elderly individuals: A systematic review. Gait & Posture, 60, 241–50. https://doi.org/10.1016/j.gaitpost.2017.12.016
14. **Mehdizadeh, S.**, Sanjari, M.A. (2017). Effect of noise and filtering on largest Lyapunov exponent of time series associated with human walking. Journal of Biomechanics, 64: 236-9. http://dx.doi.org/10.1016/j.jbiomech.2017.09.009

15. Nematollahi, M.R. Razeghi, M., **Mehdizadeh, S.**, Tabatabaee, H., Piroozi, S., Rojhani, Z., Rafiee, A. (2016). Inter-Segmental Coordination Pattern in Patients with Anterior Cruciate Ligament Deficiency during a Single-Step Descent. Plos One, 11(2): e0149837, 2016. http://dx.doi.org/10.1371/journal.pone.0149837 *[my role: Wrote the Matlab code to calculate coordination, co-authored]*
16. **Mehdizadeh, S.**, Arshi, A.R., Davids, K. (2016). Constraints on dynamic stability during forward, backward and lateral locomotion in skilled football players. European Journal of Sport Science, 16(2): 190-8. http://dx.doi.org/10.1080/17461391.2014.995233
17. Arshi, A.R., **Mehdizadeh, S.**, Davids, K. (2015). Quantifying foot placement variability and dynamic stability of movement to assess control mechanisms during forward and lateral running. Journal of Biomechanics 48(15): 4020-5. http://dx.doi.org/10.1016/j.jbiomech.2015.09.046 *[my role: PhD paper]*
18. **Mehdizadeh, S.**, Arshi, A.R., Davids, K. (2015). A minimal limit-cycle model to profile movement patterns of individuals during agility drill performance: effects of skill level. Human Movement Science 41: 207-17. http://dx.doi.org/10.1016/j.humov.2015.03.009
19. **Mehdizadeh, S.**, Arshi, A.R., Davids, K. (2015). Quantifying coordination patterns and coordination variability in forward and backward running: Implications for control of motion. Gait & Posture, 42(2): 172-7. http://dx.doi.org/10.1016/j.gaitpost.2015.05.006
20. Arshi, A.R., Nabavi, N., **Mehdizadeh, S.**, Davids, K. (2015). An alternative approach to describing agility in sports through establishment of a relationship between velocity and radius of curvature. Journal of Sports Sciences 33(13):1349-55. http://dx.doi.org/10.1080/02640414.2014.990481 *[my role: PhD paper]*
21. **Mehdizadeh, S.**, Arshi, A.R., Davids, K. (2014). Effect of speed on local dynamic stability of locomotion under different task constraints in running. European Journal of Sport Science, 14(8): 791-8. http://dx.doi.org/10.1080/17461391.2014.905986
22. **Mehdizadeh, S.**, Arshi, A.R., Davids, K. (2014). Quantification of stability in an agility drill using linear and nonlinear measures of variability. Acta of Bioengineering and Biomechanics, 16(3): 59-67.

Under review

1. **Mehdizadeh, S.,** Glazier, P. Effect of simulated sensorimotor noise on kinematic variability and stability of a biped walking model. Journal of Applied Biomechanics (No. JAB.2020-0270).
2. **Mehdizadeh, S.,** Van Ooteghem, K., Gulka, H., Nabavi, H., Faeighi, M., Taati, B., Iaboni, A. A systematic review of center of pressure measures to quantify gait changes in older adults. Gait & Posture. [No. GAIPOS-D-19-00001R1].

In preparation

1. Longitudinal analysis of gait changes in older adults with dementia and their association with fall incidents
2. A template for reporting calculation of the local divergent exponent in human gait studies

3. A review of methods of decomposing kinematic variability in gait analysis

Conference Abstracts and Papers

1. **Mehdizadeh, S.**, Ng, K., Sabo, A., Taati, B., Iaboni, A. Developing a prognostic model based on gait mechanical stability and fall history to predict short-term falls in older adults with dementia. 21st Biennial Meeting of the Canadian Society for Biomechanics, Montreal, 2020 (submitted).
2. **Mehdizadeh, S.,** Dolatabadi, E., Mansfield, A., Flint, A., Arora, T., Ng, K., Taati, B., Iaboni, A. Developing prognostic models for predicting short-term falls in older adults with dementia using a vision-based gait monitoring system. 10th Canadian Conference on Dementia, Quebec City, 2019.
3. **Mehdizadeh, S.**, Dolatabadi, E., Arora, T., Ng, K., Taati, B., Iaboni, A. Gait stability, fall history, and neuropsychiatric symptoms are associated with falls in people with dementia. XXVII ISB Conference, Calgary, 2019.
4. **Mehdizadeh, S.,** Dolatabadi, E., Arora, T., Ng, K., Taati, B., Iaboni, A. Using Kinect camera to quantify gait variables that can predict falls in older adults with dementia. RESNA-RehabWeek, Toronto, 2019.
5. **Mehdizadeh, S.,** Sanjari, M.A. Effect of noise on local dynamic stability measures of human movement. XXVI ISB Conference, Brisbane, 2017.
6. Ghomian, B., Naemi, R., **Mehdizadeh, S.**, Jafari, H., Saeedi, H. The influence of the rocker shoe design on shear impulses during walking in patients with diabetic neuropathy. XXVI ISB Conference, Brisbane, 2017.
7. **Mehdizadeh, S.**, Arshi, A.R., Nabavi, H., Komasi, P. Qualitative analysis of an agility drill using different state spaces: a dynamical system approach, XXIIIrd ISB Conference, Brussels, 2011.
8. **Mehdizadeh, S.**, Komasi, P., Shirzad, E., Nabavi, H. Measuring Local Dynamic Stability of Athlete in Agility Drill Using Lyapunov Exponent (Abstract), 16th Annual Congress of the European College of Sport (ECSS), Liverpool, 2011.
9. **Mehdizadeh, S.**, Arshi, A.R., Shirzad, E., Nabavi, H. Comparison of Single and Double Inverted Pendulum Models in Determining Cerebral Palsy Trunk Muscles in Sitting Position: A Subject Specific Approach, 6th International Congress on Biomechanics, 2010.
10. **Mehdizadeh, S.**, Najarian, S., Farmanzad, F., Khoshgoftar, M., Sedighi, A.M. Experimental Biomechanical Analysis of Brain Tissue Necking in Tension, CSME Conference, Canada, 2008.
11. Nabavi, H., Maghsoodipoor, M., **Mehdizadeh, S.** Biomechanical analysis of gait kinematical variables of athlete with functional ankle instability, ICBME, Tehran, 2009 (In Persian).
12. Karimi, M., Hooshyar Ahmadi, S.A., **Mehdizadeh, S.**, Ghomi Rostami, M. Designing and implementing of an automatic knee arthrometer, 17th Congress of the Iran Orthopedic Surgeons, Tehran, Iran, 2009 (In Persian)

Presentations and Lectures

Aug 2019	**XXVII ISB Congress- Calgary, Canada.** Gait stability, fall history, and neuropsychiatric symptoms are associated with falls in people with dementia.
Jul 2017	**XXVI ISB Congress- Brisbane, Australia.** Effect of noise on local dynamic stability measures of human movement.

Feb 2015	**8th Intl. Congress on Physical Education and Sport Science- Tehran, Iran.** Lecture: on the use of movement variability in the analysis of human movements, in the workshop: Defeat of engineering approaches in sport.
Nov 2013	**Congress on Sport Sciences: Needs of Future Generation- Tehran, Iran.** Workshop title: Escaping from Dynamics
Jul 2011	**XXIII ISB Conference- Brussels, Belgium.** Qualitative analysis of an agility drill using different state spaces: a dynamical system approach.
Jul 2010	**6th International Congress on Biomechanics- Singapore.** Comparison of Single and Double Inverted Pendulum Models in Determining Cerebral Palsy Trunk Muscles in Sitting

Grants, Awards, and Fellowships

Research Funds

Nov 2019	Grant No.: SPARK-4-00286 (PI: Iaboni A., **CO-PI: Sina Mehdizadeh**)- Funded Funding Organization: Centre for Aging + Brain Health Innovation (CABHI) Amount: 50,000 CAD Period of Grant Award: 11, 2019 - 11, 2020 Title: Video-Based gait assessment to monitor changes in health status and reduce hospital visits in older adults with dementia My Role on Project: Co-PI, wrote the initial draft, revised with the PI and submitted the proposal.
Feb 2020	Grant No.: RN398696–426380 (PI: Iaboni A., **CO-investigator: Sina Mehdizadeh, et al.**)- Funded Funding Organization: CIHR Amount: 344,250 CAD Period of Grant Award: 2019-2024 Title: Computer vision for daily monitoring of gait instability to detect an increased risk of falling My Role on Project: Co-Investigator, wrote the section on gait stability

Awards

2020	Focus on Accessibility Awards- 2000 CAD- funded by the Government of Ontario, Ministry of Seniors and Accessibility
2019	CIHR Travel Award (No. RN398696-426380)- 1000 CAD
2019	AGE-WELL ACCESS award-2500 CAD (No.: AWAC-Oct19-010, competitive)
2019	UHN Office of Research Trainees Travel Award- 500 CAD (competitive, awarded three times per year)
2018	AGE-WELL Travel award (competitive, covered travel and accommodation)

2015	Travel award to attend 2nd International Berlin Autumn School on Movement Science, Berlin, Germany (competitive, covered registration, travel and accommodation)
Fellowships	
Sep 2020- Aug 2021	AGE-WELL postdoc fellowship: Artificial intelligence for the real-time prediction of optimal foot placement in the gait of older adults- 20k CAD
Jan 2019- Dec 2019	Mitacs Accelerate Fellowship: A Vision-based system for intelligent monitoring of gait poses in Dementia- 45K CAD
Sep 2009- Sep 2013	PhD Graduate Fellowship (covered four years of tuition fees)
Sep 2007- Sep 2009	MSc Graduate Fellowship (covered two years of tuition fees)

Patent

Mehdizadeh, S., Hooshiar, A., Rostami, M., Karimi, M. (2009). A novel digital angular knee arthometer (IR patent No.: 60310).
The aim of this device was to automatically measure the laxity of medial and lateral knee ligaments (MCL and LCL). While there was such a device for the knee anterior and posterior ligaments (ACL and PCL), the lack of such a device for medial and lateral ligaments were obvious as the current method of measuring MCL and LCL was manual and subjective. This device tried to automatize this process by changing the knee angular motion to linear measures of laxity. In this project, I was responsible for the mechanical design of the device and its mechanism of action.

Peer Review Experiences

Journal of Biomechanics	Medicine & Science in Sport & Exercise
Gait & Posture	Journal of Sport Sciences
Clinical Biomechanics	International Journal of Athletic Therapy and Training
Human Movement Science	PLOS ONE
Journal of Applied Biomechanics	Scientia Iranica
The Open Biomedical Engineering Journal	JMIR Rehabilitation and Assistive Technologies
Adaptive Behavior	Computers in Biology and Medicine
Scientific reports	IEEE Access

Computer Skills

Programming	**Biomechanics**
Matlab (80% several years of experience, everyday use),	Visual 3D (90%, several years of experience),
Labview (30%, need-based use),	Opensim (50% need-based use),
Python (60%, need-based use)	PyDy Multibody Dynamics (70%, need-based use)
TensorFlow/Keras/Sci-kit Learn (50%, need-based use)	
CAD	**Statistics**
Catia/Solid Works (80%, several years of experience)	R (70%, everyday use)

Biomechanical Skills

Hands on experience in working with:

Motion Capture: Qualisys (QTM)	**EMG**: Noraxon Myomuscle
Force plates: Kistler (Bioware + MARS); Bertec instrumented treadmill	**Tension Test machine:** Zwick-Roell dynamic testing machine
Accelerometer: Xsens, Noraxon Myomotion	

Language

English: Advanced. IELTS score: 7.5 TOEFL score: 102. GRE score: 308
Persian: mother tongue

Membership

Canadian Society of Biomechanics (CSB membership No.: 1100)
International society of motor control
International Society of Biomechanics (ISB membership No.: 4257)
American Society of Biomechanics (ASB membership No.: 4573)
AGE-WELL NCE highly qualified personnel (HQP)

Professional Development

Teaching

University of Toronto Certificate of Teaching Fundamentals Certificate (workshop series)
University of Toronto Certificate of Advanced University Teaching Preparation (workshop series + microteaching)
University of Toronto Prospective Professors in Training (PPIT)- Winter 2020
UHN Toastmaster group on public speaking

Research

2019 and 2020 University of Toronto, Faculty of Medicine workshop: Grant Writing
University of Toronto, School of Graduate Studies workshop: writing CIHR grants
Mitacs workshop: Practice Your Presentation Skills
University of Toronto, School of Graduate Studies workshop: Becoming a Productive Writer
UHN Libraries workshop: The Right Review for You
UHN workshop: Beyond Informed Consent
UHN Libraries workshop: PubMed Basics, Tips
AGE-WELL Webinar: Introduction to Transdisciplinary Working in Aging & Technology
AGE-WELL Webinar: Technologies that work with you: Leveraging human-centred design to create zero-effort technologies
AGE-WELL Webinar Series: Involving End-Users in All Stages of Research

University of Toronto, School of Graduate Studies workshop: Making the Most of Oral Presentations

AGE-WELL Webinar: Advancing best practice in balance and mobility testing for fall risk assessment in older Canadians

Women's College Hospital workshop: Clinical trials lunch and learn- Resources to help you start your clinical research

AGE-WELL Webinar: Preventing fall-related head injuries in older adults- Using video evidence to inform practical interventions

Toronto Rehab's Workshop on Sex and Gender Considerations in Preparing Health Research Grants

Python programing workshop

Soft skills

Mitacs workshop: Essentials of Productive Teams

Mitacs workshop: Skills of Communication

SMRTS Webinar: Practical Project Management

AGE-WELL Webinar Series: Professional Development Series- You Got Hired!

University of Toronto workshop: Teaching and Learning Transferable Skills: For Yourself and Your Students

Other

Mitacs workshop: Discovering the Entrepreneur Within

AGE-WELL Cortex Design Workshop - Optimize your Ethnographic Study

References

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