



Dr. Mehdi Khaleghi Tazji

Associate Professor of Biomechanics and Sport Injuries
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Brief CV

Associate Professor
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Educational records

#	Course	University	City	Country	Graduation Date	Total mean
1	Bachelor	Shiraz University	Shiraz	Iran	2005	15.76
2	Master of Science	Kharazmi University	Tehran	Iran	2007	18.34
3	Ph.D.	Kharazmi University	Tehran	Iran	2014	18.24

Languages

#	Language	Translation Skill	Dialogue Skill
1	Good	Good	English

Professional skills

#	Title	Date of activity
1	Analyzing and programming of human movements	
2	Analyzing and programming of biomechanical data in sport activities	
3	Analyzing of Forceplate, Kinematic camera, EMG and Isokinetic dynamometer data	

Academic & scientific positions

#	Responsibilities Titles	Name of Organization	Starting Date	Termination Date
1	Faculty member	Kharazmi University	2009	---
2	Administrative and Financial Deputy	Kharazmi University	2016	2018
3	Lab Head	Kharazmi University	2016	---

Executive Activities

#	Executive Activities Titles	Name of Organization / comment	Starting Date	Termination Date
1	◆	◆	◆	◆

Research interests

#	Title	Start date
1	Biomechanical analysis of human movements and sport activities	
2	Coordination and coordination variability	
3	Biomechanical analysis of gait, running, jumping, landing, ...	
4	Biomechanics of exercise	

Theses supervised

#	Title	Persons
1	Comparison of lower extremity joints coordination variability in healthy and ACL reconstructed individuals during running at different speeds	نازنین رفیعی پور
2	The effect of anticipated and unanticipated conditions on the coordination variability of trunk, pelvis and thigh in basketball players during landing with and without trunk rotation	محمدجواد سهراب لو
3	Comparison of coordination strategy, variability, and biomechanical risk factors of the trunk and lower extremity injuries during single-leg jump-cut maneuver in athletes with chronic groin pain and healthy one.	حمیدرضا ناصرپور
4	The Comparisson between adding internal and external feedback to plyometric training on balance, strength, function and two dimensional knee kinematic in subjects with leg dominance neuromuscular deficit	جعفر حمدی دورباش
5	Isokinetic parameters profile and electromyography of glenohumeral joint muscles in male volleyball players	سجاد کاظم پوردهکردی
6	Comparison of the effects of face to face and teletraining of neuromuscular exercise on muscular strength, postural control and quality of life in people with multiple scoliosis	تینا شیرخو
7	the effect of adding load on kinematics and kinetics asymmetry while walking in men with chronic low back pain and without back pain	راحله تاجیک
8	Comparison selected kinematical variables and electromyography signals of typical start technique between expert and novice speed climber	سمیه عسکری حسینی
9	Evaluation of Selected Isometric and Isokinetic Parameters of the Dominant and Non-Dominant Wrist Muscles in Semi-Professional Boxers	علی صالحی نژاد
10	Gait Errors Detection using Accelerometer Sensor and Artificial Intelligence	ایمان کارگرفروغ
11	Investigating of Isokinetic parameters profile of Rotatorcaff glenohumeral joint muscles in male Handball players	محمد جهان بخش بناب
12	Multi-segment analysis of spinal kinematics During stair ambulation in people with chronic low back pain	فاطمه سلطان زاده
13	Comparison of drop jump landing biomechanics in young male athletes after ACLR using three methods including allograft, patella autograft, and hamstring autograft 6 months to one year after surgery	دانیال کردی
14	The effect of local fatigue of selected muscles of the lower limb on the stability of the pelvic region and some selected kinetic and kinematic variables during walking in healthy people	عاطفه بختیاری
15	The Comparison of Coordination and Variability of Trunk and Lower Limb Ccoordination in Healthy People and Those with Low Back Pain While Walking	نرگس شاداد مهر

Theses advised

#	Title	Persons
1	Compare Biomechanical Parameters and Trajectory Design Strategies During Arising from Squat Position in Different Load Condition between active and inactive subjects	مصطفی حاج لطفعلیان
2	The comparison of biomechanical parameters of Iranian female soccer players during cutting maneuvers, heading and landing on natural and artificial grass.	یاسمین علیپورعظاآبادی
3	The effect of combined training on the co-contraction of selected muscles of the lower extremity of elderly women with diabetes and diabetic peripheral neuropathy	ویدا فرحان
4	The effects of level of expertise on trunk and lower extremity joints coordination variability during rowing at different stroke rate	فائزه پاکروان
5	Compare the effects of the Posterior X Taping and augmented feedback on Lower-Extremity Kinematic and muscles activity pattern during functional activities in males with Tibiofemoral varus alignment	محمد رضا هاتفی
6	Effect of corrective exercises on posture, shoulder muscle activity and kinematic in male handball players with upper cross syndrome	عین اله سکینه پور
7	The effect of change in Q-factor on kinematics variability and muscle synergy of lower extremity during pedaling	محمدامین محمدیان
8	Comparison of the effect of a period of ballistic training with and without sensorimotor training on proprioception, performance , strength and balance of karateka women.	مهتاب قره حسن لو
9	The effect of eight weeks of gait retraining on lower extremity kinetics and kinematics in novice runners	خدیجه فروتن الوارس
10	The Effect of hopping exercises with and without kinesiotype on range of motion, strength, proprioception, balance and ankle pain in athletes with chronic ankle instability	بهزاد نیکوکار
11	Effectiveness of gait-retaining with feedback on kinematic and kinetic variable of recreational injured runner	فلورا فروردین
12	The effect of adding proprioception exercises to corrective exercises on foot posture, ankle's proprioception and balance on 9- 12 years in girls with flat foot and hallux valgus	زهرا دارابی
13	The effect of hip-focused neuromuscular training with perceptual-cognitive approach on kinetics and kinematics of single-legged landing in adolescent girls' volleyball player	کوتر مودنی
14	Continuous Estimation of Lower Extremity Biomechanical Parameters during Walking and Running using Accelerometer and Artificial Neural Networks	زاهد منتشلو
15	The effect of adding Eccentric exercises to gait retraining exercises on pain, kinetics and kinematics of runners with patellofemoral pain syndrome	اله امیدوار
16	Estimation of kinematical parameters associated with elderly falling risk during Gait using accelerometer and Artificial intelligence	سیدابراهیم موسوی
17	The Effect of Trunk and Hip Neuromuscular Training on Selected Kinetic and Kinematic Parameters of Male Athletes with Trunk Control Defects During Change of Direction Maneuver in Functional Fatigue Conditions	بهنام مرادی
18	Investigating the effect of trunk and hip neuromuscular training on selected kinetic, kinematic and electromyographic parameters of the trunk and lower limbs of male athletes with trunk control defects during the change of direction maneuver in fatigue conditions	بهنام مرادی
19	Comparison the effectiveness of the extended knee control program versus FIFA 11+ on injury incidence density, kinetics, kinematics, and performance variables related to the lower extremity injuries of Iranian soccer players	فاطمه گلی حسین ایاد
20	Effect of a comprehensive corrective exercise protocol with and without instruction cues on lumbar-pelvic kinematics and foot posture in people with foot hyperpronation.	پریا آقاپور بناب
21	the effect of adding back motor control exercises to current knee exercises on knee pain, gait kinematics, quadriceps muscle strength and quality of life in people with knee osteoarthritis	محدثه عالی پور
22	Comparison of Biarticular and Synergist Muscle Forces During Movement in Two Simulation Environments	مجتبی خوش باطن
23	Comparison of the effect of dual task exercise versus combined exercise in water and land on balance and gait of patients with multiple sclerosis.	سحر نظری سلطان احمد
24	Effect of balance training with and without stroboscopic vision on kinesiophobia, proprioception and timing of muscle activity of selected muscles in people with chronic ankle instability	منا قنبری بروجنی
25	The effect of 3 different squat movement methods on lower limb kinematics variables in active males	بهزاد یعقوبی گرجی
26	Comparison of the effect of six weeks of open and closed shoulder kinetic chain exercises and core stability on pain, proprioception, strength and electrical activity of muscles in people with shoulder impingement syndrome	عاطفه حسن زاده امامقلی
27	Comparison of lower limb variability coordination and muscle synergy in anterior cruciate ligament reconstruction and healthy individuals while running at different speeds	عارفه کاظمی
28	comparison of inter-joint coordination and variability of lower limbs during induced fatiguing walking in post lumbar disc surgery patients	نیلوفر شهبازی
29	Decoding the Neural Mechanisms of Dynamic Balance Control; Investigating the Effects of Visual Sensory Deprivation, and Proprioceptive Challenge on CorticoMuscular Coherence During Dynamic Balance Tasks with and without a Concurrent Cognitive Task in Healthy Young Adults	ستاره سادات میراثی اسکویی
30	Comparison of hip and spine coordination variability between male and female athletes during squats with different loads	بهاره السادات مظفری نیسیانی
31	Comparison of pelvis and spine coordination variability between male and female athletes during deadlifts with different loads	اناهیتا جلالی
32	Comparison Of Arch Index, Rear foot Angular Motion, Center Of Pressure And Plantar Pressure Distribution Of Housewives And Employed Women	علیرضا باقری

Course taught

#	Lesson Title	Place & Date of Lecture
1	Human Anatomy	
2	Kinesiology	
3	Sport Biomechanics	
4	Sport Biomechanics Lab	
5	Surface Electromyography (EMG)	
6	Biomechanics of sport injuries	
7	Functional Anatomy	
8	Software in Biomechanics	
9	Joint Mechanics	
10	Handball	

Workshops contributed

#	Workshops & Courses Titles	Functional Organization	Place	Date
1	Introduction to Isokinetic dynamometer	Sport sciences research institute	Tehran	2018
2	Healthy Life Style: Musculoskeletal disorders in daily activities	National Iranian Drilling Co.	Ahvaz	2019
3	Biomechanical aspects of sport activities in children	Kharazmi University	Tehran	2018

Published articles

#	Paper title	Writer	Magazine title	Publish year	Publish type	Article type
1	Comparative effects of dual-task training versus combined exercise training in water and on land on patients with multiple sclerosis: a study protocol of a randomised factorial trial	Sahar Nazary soltan ahmad , Mehdi Khaleghi Tazji	BMJ Open	2025	Full Text	
2	Unanticipated side cutting alters lower limb kinematic and kinetic variables in futsal athletes	Mohammad Aziminia, Ali Abbasi, Samira Sadat Sajjadi, Gholamhossein Nazemzadegan, Mehdi Khaleghi Tazji	Acta Gymnica	2025	Full Text	
3	Comparative analysis of ground reaction forces and spatiotemporal gait parameters in older adults with sway-back posture and chronic low back pain: a cross-sectional study	Fatemeh Esmailpour, Amir Letafatkar, Mohammad Taghi Karimi, Mehdi Khaleghi Tazji, Giacomo Rossetini, Jorge Hugo Villafa?e	BMC Sports Science, Medicine and Rehabilitation	2025	Full Text	
4	The effect of menstrual cycle on inter-joint coordination variability during roundhouse kicks in taekwondo	Samira sadat Sajadi kolmakani, Ali Abbasi, Zeynab Hadavi, Mehdi Khaleghi Tazji, Zdenek Svoboda	BMC Womens Health	2025	Full Text	
5	Determining the optimum number of cycles for calculating joint coordination and its variability during running at different speeds: A timeseries analysis	Javad Sarvestan, Peyman Aghaie Ataabadi, Mehdi Khaleghi Tazji, Joseph Hamill	JOURNAL OF BIOMECHANICS	2024	Full Text	
6	Lower body kinematics estimation during walking using an accelerometer	Zahed Mantashloo, Ali Abbasi, Mehdi Khaleghi Tazji, Mir Mohsen Pedram	JOURNAL OF BIOMECHANICS	2023	Full Text	
7	Continuous estimation of kinetic variables while walking using an accelerometer and artificial neural networks	Zahed Mantashloo, Ali Abbasi, Mehdi Khaleghi Tazji, Mir Mohsen Pedram	MEASUREMENT SCIENCE and TECHNOLOGY	2023	Full Text	
8	Effects of Running-induced Fatigue on the Trunk-pelvis-hip Coordination Variability During Treadmill Running at Different Speeds	Mehdi Khaleghi Tazji, Aazam Valizadeh, Hassan Sadeghi, Koumantakis George A , Chrysagis Nikolaos, Ali Abbasi	JOURNAL OF MUSCULOSKELETAL and NEURONAL INTERACTIONS	2023	Full Text	
9	The Effects of Core Stabilization Trunk Muscle Fatigue on Lower Limb Stiffness of Basketball Players	Mehdi Khaleghi Tazji, Hassan Sadeghi, Ali Abbasi, Mohammad Aziminia, , Mohammad Ebrahim Marjani, George A. Koumantakis	Sports	2023	Full Text	
10	The Effect of Eight Weeks of Kyokushin Karate Training on leg Muscle Activity and Medial Longitudinal arch Height of Adolescent Girls With Foot Pronation	Hadi Samadi, Zohreh Nikzad Abbasi, Mehdi Khaleghi Tazji	Physical Treatments	2023	Full Text	
11	Effects of rowing stroke rates on lower extremity intra-joint coordination variability in experienced young rowers	Faezeh Pakravan, Ali Abbasi, Zahra Noorinezhad, Zdenek Svoboda, Mehdi Khaleghi Tazji, Siavash Dastmanesh	PLoS One	2023	Full Text	
12	The effects of the Posterior X Taping versus augmented feedback on lower-extremity kinematic and muscle activity pattern during unilateral weight-bearing activities in men with tibiofemoral varus malalignment	mohammad reza hatefi, , , faride baba khani, Mehdi Khaleghi Tazji	Journal of Experimental Orthopaedics	2023	Full Text	
13	The effect of neuromuscular training on kinetic variables in male athletes with trunk control defects	Behnam Moradi, Amir Letafatkar, , Mahdi Hosseinzadeh, Mehdi Khaleghi Tazji	sport sciences and health research	2023	Full Text	
14	Comparing the effect of a simulated defender and dual-task on lower limb coordination and variability during a side-cut in basketball players with and without anterior cruciate ligament injury	Ebrahim Heydarnia, Amir Letafatkar, Mehdi Khaleghi Tazji, Dustin R. Grooms	JOURNAL OF BIOMECHANICS	2022	Full Text	

15	Effects of the Real-time Feedback and Knee Taping on Lower-Extremity Function during Ergometer Pedaling in Subjects with Tibiofemoral Varus Alignment	Mohamadreza Hatefi, , faride babakhani, Mehdi Khaleghi Tazji	GAIT and POSTURE	2022	Full Text	
16	The relationship between vertical stiffness during bilateral and unilateral hopping tests performed with different strategies and vertical jump performances	Mohamadamin Mohamadian, Heydar Sadeghi, Mehdi Khaleghi Tazji, Sean J Maloney	the european journal for sport sciences technology	2021	Full Text	
17	Segmental coordination and variability of change in direction in long-standing groin pain	Reza Mansourizadeh, Amir Letafatkar, Andrew Franklyn-Miller , Mehdi Khaleghi Tazji, Julian Baker	GAIT and POSTURE	2020	Full Text	
18	A comparison of coordination and its variability in lower extremity segments during treadmill and overground running at different speeds	Ali Abbasi, Fatemeh Yazdanbakhsh, Mehdi Khaleghi Tazji, Peyman Aghaie, Zdenek Svoboda, Kianoush Nazarpour, Marcus Fraga Vieira	GAIT and POSTURE	2020	Full Text	
19	The effects of general fatigue induced by incremental exercise test and active recovery modes on energy cost, gait variability and stability in male soccer players	, Raghad Mimar, Heydar Sadeghi, Mehdi Khaleghi Tazji, FragaVieira Marcus	JOURNAL OF BIOMECHANICS	2020	Full Text	
20	Intra-Segment Coordination Variability in Road Cyclists during Pedaling at Different Intensities	REZVAN MEHRI, Ali Abbasi, Shahram Abbasi, Mehdi Khaleghi Tazji, Kianoush Nazarpour	Applied Sciences	2020	Full Text	
21	The comparison of selected kinetic factors during a cross-cutting maneuver in soccer players with athletics groin pain and healthy ones: Implications for injury prevention	Hamidreza Naserpour, Elham Shirzad Araghi, Mehdi Khaleghi Tazji, Amir Letafatkar		2020	Full Text	
22	Efficacy of Abdominal Control Feedback and Scapula Stabilization Exercises in Participants With Forward Head, Round Shoulder Postures and Neck Movement Impairment	Shirin Shiravi, Amir Letafatkar, Lucia Bertozzi, Pillastrini Paolo, Mehdi Khaleghi Tazji	Sports Health-A Multidisciplinary Approach	2019	Full Text	
23	The Effect of Valgus Control Instruction Exercises on Pain, Strength, and Functionality in Active Females With Patellofemoral Pain Syndrome	Mahsa Emanverdi, Amir Letafatkar, Mehdi Khaleghi Tazji	Sports Health-A Multidisciplinary Approach	2019	Full Text	
24	Does athletic groin pain affect the muscular co-contraction during a change of direction	Reza Mansourizadeh, Amir Letafatkar, Mehdi Khaleghi Tazji	GAIT and POSTURE	2019	Full Text	
25	Comparing Biomechanical Risk Factors of Anterior Cruciate Ligament Injury of Elite Female Soccer Players During the Shearing Maneuver and Header on the Natural Grass and Artificial Turf	Yasamin Alipour ataabadi, Heydar Sadeghi, Hosein Alizadeh, Mehdi Khaleghi Tazji		2019	Full Text	
26	The Effect of Two Types of Silicone Insole on Selected Kinetic Variables on the Skill landing-Jumping-Landing Active Young Women with Flat foot	Fahimeh Naghi Nejhad, Heydar Sadeghi, Farhad Tabatabaee Ghomsheh, Amir Hossein Barati, Mehdi Khaleghi Tazji	Journal of clinical physiotherapy research	2018	Full Text	
27	The Effects of External Focus Instruction Exercise on Performance and Kinetics in Landing After Volleyball Blocks of Female Athletes	Anis Rostami, Amir Letafatkar, Alli Gokeler, Mehdi Khaleghi Tazji	JOURNAL OF SPORT REHABILITATION	2018	Full Text	
28	The effects of different times of day on dynamic balance performance of persons with disabilities	Amir Hamzeh Sabzi, Ali Abbasi, Mehdi Khaleghi Tazji	research in sport exercise and psychology	2017	Full Text	
29	The relationship of height weight and body mass index with curvature of spine kyphosis and lordosis in 12-15-year old male adolescents of Tehran	Alireza Rabieezadeh, Fariborz Hovanloo, Mehdi Khaleghi Tazji, Hadi Akbari	turkish journal of sport and exercise	2016	Full Text	

Presented articles

#	Title	Writer	Conference	Date	Presentation type
1	Which Muscle Contraction Characteristics are Most Impaired By Adductor-Related Groin Pain?	Hamidreza Naserpour, Mehdi Khaleghi Tazji, Amir Letafatkar	14th international congress on sport sciences - Iran	1402/12/16	Oral
2	Comparison of Effect of Running Different Speeds on Coordination and Coordination Variability between Trunk Pelvic and Hip during Treadmill Running	Aazam Valizadeh, Mehdi Khaleghi Tazji, Ali Abbasi	11th international congress on sports science - Iran	1397/02/22	Oral
3	The relationship between lower extremity stiffness during hopping tests with performance in vertical jumps	Mohamadamin Mohamadian, Heydar Sadeghi, Mehdi Khaleghi Tazji	11th international congress on sports science - Iran	1397/02/22	Oral
4	Comparison of the effect of local fatigue on the variability of knee extensor muscle torque in healthy subjects with anterior cruciate ligament rupture	Mohsen Majidi, Mehdi Khaleghi Tazji	11th international congress on sports science - Iran	1397/02/22	Oral
5	The effect of six week perturbation exercises on the dynamic balance of teenage soccer player predispose to lower extremity injuries	Hamid Afroozeh, , Mehdi Khaleghi Tazji	11th international congress on sports science - Iran	1397/02/22	Oral
6	The effects of plyometric exercises and whole body vibration training on girls lower limb stiffness	Mana Asadi, Ali Abbasi, Mehdi Khaleghi Tazji	10th International Congress on Sport Sciences - Iran	1396/02/06	Oral