

Saeedeh Seyed Mohseni

Rehabilitation Research Center (RRC) and department of Orthotics and Prosthetics, Faculty of Rehabilitation., Shahnazari St., Madar Sq., Midamad Blvd., Tehran, Iran.

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Researcher

Researcher with experience in different surroundings and challenging environments seeking a position with a reputable establishment. Interested in continued progressive movement, knowledge and education in the field of rehabilitation sciences.

Education

2002 – 2005

M.Sc, Orthotics and Prosthetics
Iran University of Medical Sciences (IUMS), Tehran, Iran

Theis title: The effect of functional knee brace on anterior tibial translation in asymptomatic subjects

1997 – 2001

B.Sc, Orthotics and Prosthetics
Iran University of Medical Sciences (IUMS), Tehran, Iran

Final project: Translation of some chapters of “prosthetic rehabilitation” book in Farsi.

Academic Honors

- Ranked 2nd in B.Sc degree
- Ranked 1st in M.Sc degree

Work Experiences

Ortotics and Prosthetics department, Rehabilitation faculty, Iran University of Medical Sciences (IUMS), Orthotist and Prosthetist. **2010-Present**

- Part-time lecturer
- Designer and manufacturer of orthoses and prostheses
- Researcher

Biomechanics lab of Rehabilitation Research Center (RRC), Iran University of Medical Sciences (IUMS), Researcher. 2005-Present

- Writing research proposals
- Statistical analysis (SPSS, R, and Excel).
- Training and demonstrating the lab instruments to the M.Sc and Ph.D students.
- Research assistant with an on-going research through writing lab procedures, collecting and analyzing data, and compiling initial research findings.
- Gait analysis (Kinemetrix motion analysis system, Biometrics goniometers and foot switches, Visual 3D software).
- Working with surface EMG systems (Biometrics, MyoDat, and Kya).
- Working with Biodex Isokinetic system
- Working with Biodex Balance System
- Working with Bertec force platforms
- Preparing posters, leaflets and other information materials to introduce the lab equipments
- Designing the structure and the contents of the RRC web site. (www.iums.ac.ir/rrc)
- Medical equipments analysis
- Leader of scientific tours for Ph.D and M.Sc students of other institutes and universities visiting our center.

Vice chancellorship of treatment, Iran University of Medical Sciences (IUMS), Supervision expert. 2005-2007

- Assessment and supervision of the activities in the field of rehabilitation services.
- Recognition and classification of general clinical problems

Orthotics and Prosthetics department, Rehabilitation faculty, Iran University of Medical Sciences (IUMS), Orthotist and Prosthetist. 2001-2002 (8 months)

- Designing and manufacturing of orthoses and prostheses

Milad Hospital, Iran University of Medical Sciences (IUMS), Orthotist and Prosthetist. 2003

- Designing and manufacturing of orthoses and prostheses

Teaching

Courses:

- Practical Biomechanics to M.Sc orthotics and prosthetics students (Autumn 2010)
- Physics to BS orthotics and prosthetics students (Every other semester since 2009)
- Physics to BS speech therapy and audiology students (Autumn 2008)
- Mechanics to BS orthotics and prosthetics students (Autumn 2008 and 2010)
- Kinesiology and Biomechanics to BS orthotics and prosthetics students (winter 2008)

Skills, interests and achievements

- Writing essays and reports
- Statistics
- Gait analysis
- Considerable experience in working with biomechanical lab instruments.
- Poster, header, and logo designing
- English language (intermediate)
- Making questionnaire for medical equipments evaluation
- Ergonomics

Publications

Pear reviewed Journal Papers

- Sanjari, M.A., A.R. Arshi, M. Parnianpour, and **S. Seyed Mohseni**, Local State Space Temporal Fluctuations: A Methodology to Reveal Changes During a Fatiguing Repetitive Task. Journal of Biomechanical Engineering, 2010. 132(9): p. x-x (In Press).
- **Seyed Mohseni, S.** Farahmand, F. Karimi, H. Kamali, M. Arthrometric evaluation of stabilizing effect of knee functional bracing at different flexion angles. Journal of Sports Science and Medicine, June 2009, 8(2),p: 247-251

Pear reviewed Iranian Journal Papers

- **Seyed Mohseni, S.** Motion analysis and introduce related books. Ketabmah-Oloomfonoon Journal, 2007, 94, P:80-83
- **Seyed Mohseni, S.** The effect of using foot wears on flat foot. Iranian rehabilitation engineering association journal, 2002.

Conferences and Seminars

- Sanjari M.A., **Seyed Mohseni S.**, Jamshidi A.A., Salekzamani Y. Evaluation of muscular activation and fatigue in repetitive tasks using surface electromyography. 12th Iranian congress of physical medicine & rehabilitation and electrodiagnosis. Tabriz University of Medical Sciences, Iran. October 2009.
- Abbasi, L., A.A. Jamshidi, M.A. Sanjari, **S. Seyed Mohseni**, S. Sayadi, H. Jafari, and A. Mahmoudian, Gait kinematics of ACL deficient patients can be modified following 10 sessions of perturbation training. Gait & Posture, 2009. 30S: p. S83.
- **Seyed Mohseni Saeedeh.** Introducing the passive dynamic theory and its application in designing and modeling of robots and prostheses, Oral presentation, 8th Iranian scientific congress of orthotics and Prosthetics, Tehran, Iran, November 2008.

- **Seyed Mohseni S.**, Karimi Hossein, Farahmand Farzam*, Jabalameli Mahmoud, Kamali Mohammad: "Effect of Functional Bracing on Knee Stability in Different Flexion Angles", accepted in Second International Convention on Rehabilitation Engineering & Assistive Technology for oral presentation. Bangkok, Thailand. 13-15 May 2008.
- **Seyed Mohseni S.**, Enabling treatment centres for the disabled. Second national congress on enabling urban environment for the disabled. Tehran, Iran. December 2007.
- Sohrab Marjaneh, Nakhaei Masoumeh, **Seyed Mohseni Saeedeh**. Optimization of designing and fabrication of upper limb prostheses using motion analysis system and force platform. 1st development and technology of rehabilitation congress. December 2006.
- **Seyed Mohseni S.**, F. Farahmand., M. Jabalameli., M. Kamali. The effect of functional knee brace on anterior tibial translation in normal subjects. 7th Iranian scientific congress of orthotics and prosthetics, Isfahan, Iran. June 2004.
- **Seyed Mohseni S.** The effect of functional knee brace on anterior knee stability in healthy patients. 12th Medical engineering congress. Sahand University, Tabriz, Iran. December 2004.

Scientific projects as a research assistance

- Quantitative analysis of elbow range of motion variability due to muscular fatigue. RRC funded project. Started Oct. 2008.
- Local Dynamic Stability of ACLD gait and effect of perturbation training. RRC funded project. Started Aug. 2008.
- Effect of therapy on quantitative measures of writing skills in PD patients. (2008).
- The effect of compelled weight bearing on postural function of stroke patients. Iran University of Medical Sciences (IUMS). 2008
- Quantitative comparison of knee laxity between ACL deficient and sound knees. Research Centre for Science and Technology in Medicine (RCSTIM), Tehran University of Medical Sciences (TUMS). 2005.

Memberships

- Iranian rehabilitation engineering association.
- Iranian Orthotics & Prosthetics association.

Professional Affiliations

Rehabilitation Research Center (RRC), Iran university of Medical Sciences (IUMS).

Active member since 2005

References : Available upon request.

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