

Reza Osqueizadeh, Ph.D., M.Sc., B.Sc.

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(Last Updated: May 2026)

Interests

- Ergonomics
- Machine Learning
- Design Thinking
- Applied Vision

Education

Oct 2019-Sep 2025

Ph.D. in Ergonomics

University of Social Welfare and Rehabilitation Sciences, Iran
Thesis Title: Design of a Regression-Based Supervised Machine Learning Model to Screen Risk Factors Associated with Static Physical Workload in Children Aged 6-11 Years.

Oct 2005-Oct 2006

M.Sc. in Ergonomics

Loughborough University, UK
Thesis Title: Novel Design of a Portable, Usable, and Reliable Anthropometry Kit.

Oct 1997-Dec 2001

B.Sc. in Prosthetics & Orthotics

Iran University of Medical Sciences, Iran
Thesis Title: Plantar Pressure Distribution Pattern during Gait in Patients with Pronated Feet.

Experience

April 2026-Current

Assistant Professor

University of Social Welfare & Rehabilitation Sciences, Iran

- Teaching weekly undergraduate and postgraduate seminars.
- Setting varied seminar content with innovative teaching methods.

- Setting non-assessed essays and contributing to assessed question papers.
- Guiding students on strategic approaches to exam preparation.
- Offering course-work feedback in written and verbal forms.

Sep 2025-Current

Head of AI Workgroup

Advanced Technologies and Smart Solutions Workgroup, University of Social Welfare & Rehabilitation Sciences, Iran

- Promoting artificial intelligence concepts and applications at university.
- Designing research projects that employ advanced machine learning methods for data analysis.

Apr 2015-April 2017

Vice President - ISIRI/TC 159 (Ergonomics)

Institute of Standards and Industrial Research, Iran

- Observing-member of ISO/TC 159.
- Developed national standards in the field of Ergonomics.

Nov 2002-Feb 2005

Prosthetist

Method Rehabilitation Center, Iran

- Designed and fitted several upper and lower limb prostheses.
- Attended technical workshops on prosthetics.
- Acted as the center delegate in a committee studying amputees' interaction with assistive technology.

M.Sc. Student Projects, Co-Supervised

- Ergonomic Design and Evaluation of a Watering Tool (*Completed, Sep 2025*).
 - Designed and developed a physical prototype of an ergonomic watering tool.
 - Using electrogoniometry, compared performance of four upper limb muscles across three devices, including traditional, available commercial, and the ergonomic tool.
- Effect of Questionnaire Design on User's Visual Attention: An Eye-Tracking Study (*Completed, July 2024*).
 - Designed three types of multiple-choice questionnaire layout.
 - Using eye-tracking, compared spatial and temporal parameters across three types.
- Kinematic Effects of Tipton Chair on Thoracic and Lumbar Spine. (*Completed, Sep 2022*).
 - Designed a physical prototype of a Tipton chair.
 - Analyzed kinematics of thoracic and lumbar spinal regions using electrogoniometry.

- Effect of Ergonomics Training on Pre-hospital Emergency Productivity. *(Completed, June 2020)*.
 - Developing the required productivity assessment tool based on ACHIEVE Model.
 - Carrying out a within subject study to evaluate training effectiveness.
- Macro-ergonomic Analysis of Structure on a Multi-team System. *(Completed, Sep 2018)*.
 - Comprehensively studying the social and technical sub-systems.
 - Carrying out descriptive and analytic studies.
- Anthropometric study of Industrial Workers' Hands. *(Completed, Aug 2016)*.
 - Measuring hand dimensions through 2-dimensional photography.
 - Processing raw data in MATALB.
- Developing an Ergonomic Assessment Tool for Playrooms *(Completed, June, 2016)*.
 - Carrying out a comprehensive literature review in the field.
 - Developing the tool, and performing validity and reliability assessments.
- Ergonomic Redesign of an Industrial Control Panel *(Completed, Jan 2016)*.
 - Implementing Hierarchical Task Analysis method to evaluate the panel.
 - Carrying out Link Analysis technique to enhance the panel layout.
- Participatory Ergonomics Approach to Redesign Industrial Chairs *(Completed, Apr 2014)*.
 - Performing anthropometric measurements on selected industrial workers
 - Carrying out Repertory Grid Technique to assess usability preferences.
- Persian Font Usability *(Completed, Oct 2013)*.
 - Studying the effect of Persian font typography on reading performance.
- The Effect of Menu Position on Persian Websites' Usability *(Completed, Aug 2013)*.
 - Tracking eye movements while browsing webpages with different layouts.
 - Investigating how menu position can affect visual performance.
- Anthropometric Study of Wheelchair Users in Tehran *(Completed, Apr 2012)*.
 - Considering static and dynamic anthropometry of the commonly used wheelchairs.
 - Defining the optimal wheelchair dimensions to fit a sample of Iranian users.

Grants

- Ergonomic Study to Enhance Electronics Laboratory Workstation Design (PI)
 - Rasta Company, Tehran, Iran, 2018 *(100,000,000 IRR)*
- Job-Site Analysis to Increase Productivity (PI)
 - Mehr Petrochemical Company, Asaluyeh, Iran, 2017 *(70,000,00 IRR)*
- Real-Time Visual feedback to Improve Trans-Tibial Amputee Gait (PI)

- Deputy of Research & Technology's Grant: University of Social Welfare & Rehabilitation Sciences, Tehran, Iran, 2012 (50,000,000 IRR)
- Ergonomic Study to Enhance Library Furniture Usability (PI)
 - 2011 Deputy of Research & Technology's Grant: University of Social Welfare & Rehabilitation Sciences, Tehran, Iran, 2011 (20,000,000 IRR)
- Ergonomic Study to Control Musculoskeletal Disorders (PI)
 - Kaveh Industrial Group, Tehran, Iran, 2011 (15,000,000 IRR)

Featured Publications

MA Mohseni Bandpei, R Osqueizadeh*, HR Goudarzi, N Rahmani, A Ebadi: Predictors of Static Postural Loading in Primary-School-Aged Children: Comparing Elastic Net and Multiple Regression Methods, *Children*, 12(6): e744, 2025.

R Osqueizadeh, MA Mohseni Bandpei*, N Rahmani, HR Goudarzi, A Ebadi: Reliability and Validity of Observational Methods for Postural Load Assessment: An Updated Systematic Review, *Health Scope*, 12(4): e137573, 2023.

E Amouzadeh, SA Zakerian, R Osqueizadeh*, P Rezasoltani, SA Samaei: The Impact of Different Color Temperatures and Sources of Light on Mood and Vision: Acuity and Color Recognition, *Health Scope*, 12(1): e128709, 2023.

S Moshtaghi, SA Zakerian, R Osqueizadeh*, E Amouzadeh, S Shahedi, M Jamshidzad: Psychometric Evaluation of the Persian Version of Measuring the Usability of Multi-Media Software Questionnaire, *Journal of Ergonomics*, 8(3): 234, 2018.

F Tabatabai Ghomshe, R Osqueizadeh*, S H Nabavi: Trans-Tibial Amputee Gait Correction through Real-Time Visual Feedback, *Iranian Journal of Sport Biomechanics*, 2(1): 25-32, 2015.

Z Sharifi, R Osqueizadeh*, F Tabatabai Ghomshe: Ergonomic Redesign of Industrial Chair, *Iranian Journal of Ergonomics*, 3(1): 1-9, 2015.

F Seif*, R Osqueizadeh: Effect of Menu Location on Visual Attention of Users of Websites, *Journal of Information and Communication Technology*, 5(3): 43-56, 2015.

M Zamani, R Osqueizadeh*, F Tabatabai Ghomshe: Ergonomic Assessment of Persian Font Typography, *Iranian Journal of Ergonomics*, 2(2): 20-28, 2014.

R Osqueizadeh*, M Roustanezhad: Novel Design of a Usable and Accurate Anthropometric Caliper, *International Journal of Occupational and Environmental Medicine*, 3(3), 126-35, 2012.

Congress Presentations

R Osqueizadeh*, S Raeisi, M Maghspidipour, AS Jafarpisheh: Ergonomic Redesign of an Industrial Control Panel, *The 21st Triennial Congress of the International Ergonomics Association, Vancouver, Canada, June 2021.*

R Osqueizadeh*, Z Sharifi, P Farahani: Ergonomics in the Design of Preschool Playrooms, *1st Biennial Iranian Conference on Ergonomics (Poster Presentation). Hamedan, Iran, Oct 2014.*

R Osqueizadeh*, H Nabavi, M Mobinali: Trans-Tibial Amputee Gait Pattern Correction through Real-Time Visual Feedback, *International Congress on Prosthetics & Orthotics. Leipzig, Germany, May 2014.*

R Osqueizadeh*, M Zamani: Ergonomics Design of Visual Tasks for Pre-School Children, *1st National Seminar on Pre-School Education and Health (Poster Presentation). Tehran, Iran, May 2012.*

R Osqueizadeh*, M Roustanezhad: Amputee's Psychomotor Training in Virtual Environments, *10th National Congress on Prosthetics and Orthotics. Tehran, Iran, May 2012.*

R Osqueizadeh*, H Shiri: Ergonomic Design for Paraplegics, *1st International Seminar on Spinal Injuries, Tehran, Iran, Nov 2010.*

R Osqueizadeh*: Ergonomics and the Evaluation of Seat Comfort, *2nd International Conference on Furniture and Decoration, Tehran, Iran, Oct 2010.*

J Ghamari*, M Abedi, R Osqueizadeh: Increasing Accessibility through Inclusive Design Principles, *3rd National Seminar on Impairment Prevention (Poster Presentation). Tehran, Iran, Mar 2010.*

R Osqueizadeh*: Ergonomic Design of Prostheses and Orthoses, *8th National Congress on Prosthetics and Orthotics. Tehran, Iran, Nov 2008.*

Continuing Education and Recent Trainings

Application of Artificial Intelligence in Academic Settings

- University of Social Welfare & Rehabilitation Sciences, Tehran, 12 May 2024

MBA in Healthcare

- Shahid Beheshti University, Tehran, 27 Nov 2015 – 30 Oct 2016

Interactive Lecture

- University of Social Welfare & Rehabilitation Sciences, Tehran, 24 Dec 2014

Teaching Effectiveness

- Tehran University of Medical Sciences, Tehran, 25 May 2013

Emotional Quotient

- Tehran University of Medical Sciences, Tehran, 22 Apr 2013

Research in Education

- University of Social Welfare & Rehabilitation Sciences, Tehran, 19 Jul 2012

Qualitative & Quantitative Research

- University of Social Welfare & Rehabilitation Sciences, Tehran, 30-31 May 2011

Skills Profile

Project Management

- Completed all assigned projects within time and budget frames.

Communication

- Good written communication skills gained through production of project reports and other work commitments.
- Strong verbal communicator and presenter, evidenced through work with students, as well as conference presentations.

Team Work

- Developed great professional relationships with colleagues and project partners.

Software

- Python
 - *Machine Learning Regression Algorithms*
 - *Data Processing*
 - *Data Visualization*
- CATIA
 - *Parametric Design*
 - *Human Modelling*
 - *Ergonomics Analyses*
- SolidWorks
 - *Conceptual Design*
 - *3D Assembly*

Intellectual Properties

- Ergonomic Anthropometric Caliper

Inventors: R Osqueizadeh, A Ashgarzadeh, A S Jafarpisheh

University of Social Welfare & Rehabilitation Sciences, Tehran, Iran

IRI Patent 89050

Issued: 21 May 2016

Filed: 23 Aug 2014

Published: 15 Sep 2016

- Ergonomic Spinal Orthosis

Inventors: R Osqueizadeh, M Roustazezhad

University of Social Welfare & Rehabilitation Sciences, Tehran, Iran

IRI Patent 79119

Issued: 08 Apr 2013

Filed: 14 Feb 2013

Published: 11 June 2013