

Rezvan Parastari

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➤ Education:

- **M.Sc. orthotics and prosthetics** Sep 2019 -Sep 2023
University of Social Welfare and Rehabilitation Science (Tehran-Iran)
Rank 4th master's national entrance exam / GPA= 3.92

Thesis: The effect of anterior ankle foot orthosis on dynamic balance in people with hemiparesis post-stroke was investigated / soft **AAFO** (Wellcare support) was examined for its effect on **COP** parameters (displacement – velocity – variability) in 10 **stroke patients** / **two force plates and motion capture cameras** were utilized in the Javad Movafaghian **Motion analysis laboratory** to conduct the study.
- **B.Sc. orthotics and prosthetics** Sep 2015 – June 2019
University of Social Welfare and Rehabilitation Science (Tehran-Iran)
GPA= 3.81 (Rank 3rd in class among 30 student)

➤ Work experiences:

- **Research Affairs Specialist, Vice-Chancellery for Research & Technology, (USWR) (Tehran-Iran)** Since Jan 2026
including supporting the establishment of a biomechanics lab, managing research documentation, overseeing websites, organizing academic events, and liaising with external stakeholders like the Ministry of Science.
- **NerveAide technology developer and manufacturer of medical devices(Paris-France)** Oct 2023 - Dec2025
Conducting clinical trials for innovative medical devises (remote collaboration)
Collaborating with multidisciplinary teams to optimize advanced devices
- **TIWAN medical equipment manufacturer (Tehran-Iran)** Aug 2021- Oct 2023
Research team leading
- **Harekat foot clinic (Tehran-Iran)** March 2023- Oct 2024
Physical examination of patients/ Scanning with **Zebris foot plantar pressure system**
Designing insoles with **Padan insole designing software**
- **Member of the central council of the orthotics and prosthetics scientific association of orthotics and prosthetics (Tehran - Iran)** Oct 2021 – Aug 2022
Decision-making position
- **Kosar orthotics and prosthetics center (Tehran-Iran)** Mar 2019 –June 2020
Prosthetic trainee/ Amputee patients evaluation/ Making lower limb prosthesis
- **Arman Shayan orthotics and prosthetic clinic (Tehran-Iran)** Sep 2018 –Mar 2019
Orthotic trainee/ Patients evaluation/ Manual Muscle Testing(MMT) /Using 2D foot scanner/ Using 3D insole design software/ Making upper limb and lower limb orthoses / making spine orthoses

➤ Research experiences:

- **The effect of static ankle foot orthoses on dynamic balance in people with stroke**
I have studied the effect of **anterior and posterior ankle foot orthosis** on **center of pressure trajectory** after stroke **before and immediately after intervention**
- **The effect of functional electrical stimulation on gait parameters in neurologic patients**
I have studied the effect of **FES** on **spatiotemporal parameters** after stroke and MS
- **The effect of functional electrical stimulation on balance in people with stroke**
I have studied the effect of **FES** on **center of pressure trajectory** and **functional balance** after stroke
- **The effect of three type of orthoses on the gait parameters in people with spinal cord injury**
I have studied about **mechanical, powered and hybrid orthoses** on the gait in SCI patients

➤ Publications:

- **The effect of anterior ankle foot orthosis on dynamic balance in people with hemiparesis post-stroke**
Original paper / under review / Dec 2025
- **Measuring usability of Tiwan functional electrical stimulation device in stroke patients (in persian)**
Poster presentation / 14th congress of Iranian Stroke Committee / Des 2022
- **Evaluation of cost-effectiveness of digital rehabilitation services in patients with aphasia**
Poster presentation / 8th congress the European academy of neurology / Mar 2022
- **Effects of functional electrical stimulation compared to an ankle-foot orthosis on walking and user satisfaction in people with stroke-related foot drop: literature review**
Poster presentation / 13th congress of Iranian Stroke Committee / Des 2021
- **The effect of Honda Walking Assist Device on gait in neurological patients**
Oral presentation / 2nd advanced Technologies in rehabilitation congress / Des 2020

➤ Projects:

- **Ongoing collaborations:** (No publication will result from these collaborations, and all results belong to the company)

NerveAide technology developer and manufacturer of novel medical devices since Dec 2025
Investigating the validity of gait analysis system manufactured in **NerveAide** technology development company

NerveAide technology developer and manufacturer of novel medical devices since Jun 2024
investigating the effect of **NEwalk FES** on the **gait kinematic** in people with **Stroke, MS, CP** in the **NerveAide** technology development company

NerveAide technology developer and manufacturer of novel medical devices since Feb 2023
investigating the effect of **NEWALK FES** on the **functional balance** in people with **Stroke, MS, CP** in the **NerveAide** technology development company

TIWAN medical equipment manufacturer since Aug 2021
We are investigating the effect of **TIWAN FES** on the **spatiotemporal parameters** in **post-Stroke** patients in the **TIWAN** technology development company

- **Member of editorial board of student scientific orthotics and prosthetics publication** since 2020
Collaborating with a team of editors to select and review high-quality research articles for publication

• Selected courses:

Ocular prosthetics (Behbood Teb clinic- Dr. A khaghani)

Kinovea (faradars – online course)

Motion analysis software/ force plate data analysis/ balance/ electromyography analysis (International Society for Prosthetics and Orthotics [ISPO])

MATLAB (faradars – online course)

Gait analysis (International Society for Prosthetics and Orthotics [ISPO])

Gait analysis (UDEMI)

• Skills:

- **Language knowledge:** English / Turkish / Azerbaijani
- **Analysis methods:** Gait kinetic analysis/ Gait kinematic analysis/Plantar pressure analysis
Balance analysis
- **Software and instruments:** **Pedar-x plantar pressure in-shoe system/Kinovea/ balance Questionnaire/ Zebri FDM plantar pressure measurement system/ MATLAB**
Force plate/**Foot scanners/USE Questionnaire/Padan designing software**
- **Aesthetic Prosthesis:** Finger and partial hand / Ocular

- **Reference:** Dr. Monireh ahmadi bani ; Assistant Professor at USWR ; M.ahmadi002@gmail.com