

Saeideh Mehrkian

Associate Professor of Audiology

University of Social Welfare and Rehabilitation Sciences

Department of Clinical Sciences, School of Rehabilitation Sciences

saeidehmehrkian@yahoo.com

sa.mehrkian@uswr.ac.ir



Educational and Professional Background

1. Education

- 2009-2014- PhD **University of Social Welfare and Rehabilitation Sciences**
PhD in Audiology (Hearing & Balance Neuroscience) – “The effect of Working memory enhancement on localization and auditory streaming in children with auditory processing disorders.”
- 1999-2002- MSc **Iran University of Medical Sciences**
MSc in Audiology– “**The relationship between EAP thresholds and MAP (T-level and C-level) in the nucleus cochlear implant in children aged 3-6**”.
- 1993-1997- BSc **Iran University of Medical Sciences**
BSc in Audiology

2. Professional and Academic Positions

- 2021–2023. Associate Professor of Audiology, University of Social Welfare and Rehabilitation Sciences, Department of Clinical Sciences.
- 2014-2021 Assistant Professor of Audiology, University of Social Welfare and Rehabilitation Sciences, Department of Audiology.
- 2017- pres. Head of Hearing and Balance Center in Rofeydeh Rehabilitation Hospital, University of Social Welfare and Rehabilitation Sciences.

3. Honors and Awards

- 2023 Winner of the best lecturer Award in the University of Social Welfare and Rehabilitation Sciences.
- 2014 Winner of the best PhD thesis of the year (Scientific Iranian Association of Audiology)

4. Membership of Professional societies

- Iranian Society of Audiology 1997-present
- Iranian Medical Council 1997-present

Teaching and Research Supervision

University of Social Welfare and Rehabilitation Sciences (2014-2022)

I- Teaching

- Neuroscience III (Auditory neuroscience).
- Speech and language laboratory (Electrophysiology).
- Psychology and education of children with hearing loss.
- Neuroscience II (Cognitive neuroscience).
- Electrophysiological evaluations of the auditory system.
- Seminars in Audiology.
- Auditory rehabilitations in special populations (APD, cochlear implant).
- Vestibular Neuroscience & Rehabilitation.
- Auditory and Vestibular Neuroscience.
- Evaluations of the Balance system.
- ABCs of Audiology & Evaluation Methods of the auditory system.
- Balance evaluation and rehabilitation internship.
- Electrophysiology of hearing internship.

II- Research Supervision

University of Social Welfare and Rehabilitation Sciences (PhD candidates or Masters students)		
2023	The effect of auditory lateralization training on unilateral spatial neglect in stroke patients	Supervisor
2023	Effects of auditory localization training on the speed processing and speech perception in noise in the elderly	Supervisor
2023	Preparation of spatialized speech in noise test and preliminary standardization in school-age children	Advisor
2022	Effect of time perception training on expressive and receptive language in children with auditory processing disorder	Advisor
2022	Development and evaluation of a structural equation model for identifying factors associated with the actual use of hearing aids and assistive hearing devices among older adults with hearing loss	Advisor

2022	Biomechanical Analysis of the Head Stabilization during the Gait of Patients with Vestibular Dysfunction	Advisor
2021	Effect of pitch discrimination training on speech in noise perception of hearing impaired 6-10 years old children	Supervisor
2021	Effect of prefrontal transcranial direct current stimulation (tDCS) and tailor-made notched music training (TMNMT) combined treatment on chronic tinnitus	Second Supervisor
2022	Investigating the relationship between vestibular disorder and anxiety disorder in patients with vertigo	Supervisor
2021	Investigating the relationship between spectral, temporal and spatial auditory processing with speech perception in noise in the elderly with speech in noise difficulty	Supervisor
2021	Study of spectral and temporal processing in adults with stroke and comparison with normal individuals	Supervisor
2021	Evaluation of correlation between Persian version of DDdt test and daily auditory attention subtests in normal children aged 8-12 years	Supervisor
2019	Investigating the relationship between reaction time of electrical stapedius reflex and auditory performance in cochlear-implanted children.	Supervisor
2019	Standardization of consonant-vowel in noise test in normal Farsi speaking children aged between 8-12 years	Supervisor
2019	Validity and Reliability of the Persian version of Infant-Toddler Meaningful Auditory Integration Scale (IT-MAIS)	Supervisor
2018	Comparing auditory sustain attention in children with auditory processing disorder and normal children	Supervisor
2018	The relationship between working memory capacity and temporal and dichotic auditory processing in teachers with poor speech perception in noise	Supervisor
2017	Validity and reliability of the Persian version of "Vestibular Disorders Activities of Daily Living Scale (VADL)" and testing of convergence validity	Supervisor
2017	The effect of mini microphone application on speech in noise perception scores in bimodal cochlear implant users aged 6 to 12 year old	Supervisor
2016	Developing and psychometric evaluation of Persian version of "Fused Dichotic Rhymed Word Test" for 6_11 years children	Second Supervisor
2016	Development and psychometric analysis of the Persian version of speech in noise sentence test in children aged 6 to 12 years	Second Supervisor
2015	Development and Validation of the Persian Version of the Acceptable Noise Level (ANL) Test in Normal Children Aged 5-8 Years	Second Supervisor
2015	Assessment of validity and reliability Persian version of vestibular rehabilitation benefit questionnaire	Second Supervisor

III- Grants

- 2023 Effect of noise therapy on improving speech perception in the elderly with impaired speech perception in noise
- 2022 Constructing a speech perception test in spatial noise and its preliminary standardization in primary school children

2021 Investigating the relationship between auditory processing and speech perception in the presence of noise in stroke patients.

Publications

- Long latency auditory evoked potentials and object-related negativity based on harmonicity in hearing-impaired children. **S Mehrkian**, A Moossavi, N Gohari, MA Nazari, E Bakhshi, C Alain. *Neuroscience Research* 178, 52-59, (2022).
- The effectiveness of the combined transcranial direct current stimulation (tDCS) and tailor-made notched music training (TMNMT) on psychoacoustic, psychometric, and cognitiveA Moossavi, **S Mehrkian**, S Najafi, E Bakhshi, *American Journal of Otolaryngology* 43 (1), 103274, (2022).
- Determinants of regular use of hearing aids among older adults in Tehran (Iran).A Jorbonyan, M Foroughan, Y Abolfathi Momtaz, **S Mehrkian**, *Educational Gerontology*, 1-17, (2022).
- The effect of harmonic training on speech perception in noise in hearing-impaired children. A Moossavi, **S Mehrkian**, N Gohari, MA Nazari, E Bakhshi, C Alain. *International Journal of Pediatric Otorhinolaryngology* 149, 110845, (2021).
- **The Relationship Between Reaction Time of Electrical Stapedius Reflex and Auditory Performance in Cochlear-implanted Children.** F Arbabi, **S Mehrkian**, H Emamdjomeh, A Biglarian,*Iranian Rehabilitation Journal* 19 (2), 189-198, (2021).
- Factors affecting the adoption and use of hearing aids among older adults: A systematic review. A Jorbonyan, YA Momtaz, M Foroghan, **S Mehrkian**, *Current Psychiatry Research and Reviews Formerly: Current Psychiatry Reviews*, (2021).
- The Persian version of infant-toddler meaningful auditory integration scale. Geravand, **S Mehrkian**, S Hassanzadeh, E Bakhshi, *Auditory and Vestibular Research* 28 (4), 235-241, (2019).
- Preliminary standardization of consonant-vowel in noise test in normal Persian speaking children. **S Mehrkian**, E Fadaie, PJ Afshari, E Bakhshi, *Auditory and Vestibular Research*, (2019).
- **Effect of wireless remote microphone application on speech discrimination in noise in children with cochlear implants.** **S Mehrkian**, Z Bayat, M Javanbakht, H Emamdjomeh, E Bakhshi, *International journal of pediatric otorhinolaryngology* 125, 192-195, (2019).
- The Relationship between working memory capacity and temporal and dichotic auditory processing in teachers. **S Mehrkian**, Z Mozaffari, E Bakhshi, *Auditory and Vestibular Research*, (2019).
- Development and assessment of validity and reliability of the Persian version of vestibular rehabilitation benefit questionnaire. A Moossavi, **S Mehrkian**, F Hamzhepour, E Bakhshi. *Auditory and Vestibular Research* 27 (2), 65-71, (2018).
- Validity and reliability of the Persian version of the vestibular disorders activities of daily living scale. **S Mehrkian**, Z Erfanimesh, E Bakhshi, *Auditory and Vestibular Research* 27 (1), 25-30, (2018).

- Developing a Rehabilitation and Educational Needs Assessment Tool for Mainstreamed Primary School Students with Hearing Loss. H Babae, N Hatamizadeh, S Hosseinzadeh, **S Mehrkian**, The Scientific Journal of Rehabilitation Medicine 7 (2), 148-157, (2018)
- Developing of Persian version of the BKB sentences and content validity assessment. A Moossavi, **S Mehrkian**, F Karami, A Biglarian, Auditory and vestibular research 26 (1), 27-33, (2017).
- Development and psychometric evaluation of Persian version of fused dichotic rhymed word test for 6-11 year-old Persian speaking normal children. A Moossavi, **S Mehrkian**, N Ghasemi, E Bakhshi, Auditory and vestibular research 25 (3), 159-165, (2016).
- Development and Validation of the Persian Version of the Acceptable Noise Level (ANL) Test in Normal Children Aged 5-8 Years. A Moossavi, N Shokoufeh, **S Mehrkian**, A Biglarian, Y Lotfi, Journal of Rehabilitation Sciences & Research 3 (2), 45-50, (2016).
- Relation between working memory capacity and auditory stream segregation in children with auditory processing disorder. Y Lotfi, **S Mehrkian**, A Moossavi, SF Zadeh, H Sadjedi. Iranian Journal of Medical Sciences 41 (2), 110, (2016).
- The Persian version of words-in-noise test for young population: development and validation. Y Lotfi, S Salim, **S Mehrkian**, T Ahmadi, A Biglarian. Auditory and vestibular research. 25 (4), 194-200, (2016).
- Auditory working memory span of children with (central) auditory processing disorders and normal children aged 8 to 10 years. A Moossavi, B Khavarghazalani, Y Lotfi, **S Mehrkian**, ..., Journal of Rehabilitation Sciences & Research 2 (2), 27-30, (2015).
- Validity and reliability of a non-sense syllable test for evaluating phonological working memory in Persian speaking children. A Moossavi, B Khavarghazalani, Y Lotfi, **S Mehrkian**, E Bakhshi, ..., Audiology 23 (4), (2014).
- The relation between working memory capacity and auditory lateralization in children with auditory processing disorders. A Moossavi, **S Mehrkian**, Y Lotfi, S Faghihzadeh, International journal of pediatric otorhinolaryngology 78 (11), 1981-1986, (2014).
- Auditory lateralization ability in children with (central) auditory processing disorder, A Moosavi, DZ Hosseini, Y Lotfi, **S Mehrkian**, E Bakhshi, GB Khavar, Iranian Rehabilitation Journal 12 (19), 31-37, (2014).
- Auditory attention: foundations, theories, and mechanisms. H Talebi, **S Mehrkian**, Audiol 22 (2), 1-16, (2013).
- Quality of life improvement in hearing-impaired elderly people after wearing a hearing aid. Y Lotfi, **S Mehrkian**, A Moossavi, S Faghih-Zadeh, Archives of Iranian medicine, (2009).
- Language characteristics of preschool children with hearing loss in Tehran, Iran. Y Lotfi, T Zarifian, **S Mehrkian**, M Rahgozar, Bimonthly Audiology-Tehran University of Medical Sciences 18 (1), 88-97, (2009).

Lectures and Conference Presentations

Year	Title
2023	Hearing disorders in MS patients. Conference on management of sensory impairment in multiple sclerosis patients with interdisciplinary approach.
2023	The role of evaluation and rehabilitation of the vestibular system in the balance of MS patients. Conference on management of imbalance in patients with multiple sclerosis with an interdisciplinary approach
2022	Early additional hearing evaluation in premature babies. Conference on the necessity of timely interventions and prevention of developmental delay and hearing evaluations.
2022	Investigation of hearing and balance disorders in the elderly and related interventions. Conference on Investigations of balance and brain function in the elderly
2022	Effects of early interventions in hearing disorders of adult patients with cognitive pathology. Conference on Diagnostic criteria of adult cognitive disorders in brain diseases
2022	Cognitive rehabilitation and effects on audiology interventions. Cognitive-communicative interventions in adult cognitive disorders Conference.
2021	Practical methods of effective communication in audiology. Effective communication and types of interviews in rehabilitation treatment sessions Conference.
2021	Basics and mechanism of speech understanding in noise in children. The fourth conference on auditory processing disorder: assessment and rehabilitation
2021	Cognitive screening in audiology and its benefits. Auditory cognitive Symposium
2020	Application of electrical stimulation in auditory processing and speech understanding. Conference on Basics and applications of electrical stimulation in the hearing and balance system
2020	Auditory processing of speech acoustic parameters in the brainstem. Fundamentals and applications of Speech-ABR Conference.
2019	Auditory communication disorders in acquired neurological lesions. The 4th Avicenna Neurological Rehabilitation Conference
2019	Different approaches to rehabilitation of auditory processing disorder. Conference on Diagnostic evaluations of auditory processing disorders (central)
2019	Memory, attention and their role in speech and language. The 17th speech therapy conference of Iran
2019	Hearing disorders in stroke patients. Conference on hearing and balance disorders in stroke patients
2018	Evaluation and treatment of hearing and balance disorders in stroke patients. Conference on treatment and rehabilitation stroke with a team approach
2018	Challenges of evaluation and rehabilitation of auditory processing disorder in children. 18th Congress of Audiology of Iran
2017	Interdisciplinary management of cleft lip and palate. Team management in cleft palate Symposium
2016	Panel report of auditory processing disorder evaluation and rehabilitation samples. Biennial Conference on Auditory Processing Disorder (Central); Evaluation and rehabilitation

2016	ABR recording and interpretation protocols for the purpose of neurocognitive evaluations. Conference on Basics, application and interpretation of OAE and ABR test
2016	Is the function of the cochlea impaired in auditory processing disorder (APD)? .15th Congress of Audiology of Iran
2015	Rehabilitation of central auditory processing. The first congress of applied concepts and principles of audiology in Iran
2015	The effect of working memory capacity on auditory separation in children with auditory processing disorder. 14th Congress of Audiology of Iran
2014	Application of Speech ABR in APD children. The 13th Congress of Audiology of Iran
2013	Clinical applications of auditory speech coding. The 12th Congress of Audiology of Iran
2012	Identification and treatment of balance disorders in hearing impaired children. The second seminar on new hearing aids and hearing implants
2012	Speech encoding disorder with emphasis on auditory encoding. Conference on Speech processing and perception
2011	Cognitive disorders and central auditory processing in the elderly. Iran's first nationwide seminar on neurological rehabilitation
2011	Auditory neuroplasticity in cochlear implantation and amplifiers. Conference on neuroplasticity in the auditory system