

CURRICULUM VITAE



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Educations

1. PhD in Neuroscience, Iran University of Medical Sciences, Tehran, Iran (2013-2017).
2. MSc in Speech-Language Pathology, University of Social Welfare and Rehabilitation Sciences, Tehran, Iran (2004-2007).
3. Bachelor in Speech-Language Pathology, Iran University of Medical Sciences, Tehran, Iran (2000-2004).

JOBS and Positions:

1. Assistant professor of Neuroscience, Department of Neurology, Kermanshah University of Medical Sciences, Kermanshah, Iran (2018-present).
2. Member of Iranian Speech Therapy Association, (2010-present).
3. Member of Iranian Neuroscience Association, (2017-present).
4. Member of Society for the Neuroscience of Stuttering (SNS), 2024.
5. Member of Research and Publication Committee, International Fluency Association (2021-present)
6. Founder and owner of Zagros Clinic for Voice, Laryngeal stroboscopy, Fiberoptic Endoscopic Evaluation of Swallowing and Speech Therapy, Kermanshah, Iran. (2009-present).
7. Founder and chief of Neuroscience Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran (2021-present).
8. Head of stroke rehabilitation team at Imam Reza Hospital, Kermanshah University of Medical Sciences (2019-present).

9. Deputy of Research, Department of Neurology, Kermanshah University of Medical Sciences, Kermanshah, Iran (2019-present).
10. Member of acute brain stroke committee at Imam Reza Hospital, Kermanshah University of Medical Sciences, Kermanshah, Iran (2018-present).
11. Founder and member of Sleep Disorders Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran (2015-present).
12. Executive Manager, Journal of Kermanshah University of Medical Sciences, Kermanshah, Iran (2010-present).

Clinical services:

1. Swallowing Disorders rehabilitation and Fiberoptic Endoscopic Evaluation of Swallowing (FEES).
2. Voice Disorders and Laryngeal Stroboscopy (over 15000 documented laryngeal imaging)
3. Stroke Rehabilitation
4. Transcranial Direct Current Stimulation (tDCS)
5. Repetitive Transcranial Magnetic Stimulation (rTMS)
6. Stuttering
7. Speech Motor Disorders.
8. Developmental Language Disorders
9. Autism Spectrum Disorders (ASD)
10. Learning Disabilities

Language Skills

1. English: Advance in reading and writing, intermediate in listening and speaking
2. Kurdish: Native, Advance in all language domains for all Kurdish dialects
3. Persian: Advance in all language domains

Teaching Experiences

1. Stuttering; pathology and treatment, undergraduate student of speech therapy, Kermanshah University of Medical Sciences,
2. Aphasia, undergraduate student of speech therapy, Kermanshah University of Medical Sciences,
3. Neuroanatomy and neurophysiology of speech and language, undergraduate student of speech therapy, Kermanshah University of Medical Sciences,
4. Speech and language disorders, neurology residency program, Kermanshah University of Medical Sciences,
5. Swallowing screening and dysphagia rehabilitation, neurology residency program, Kermanshah University of Medical Sciences,
6. Neuroscience and neurorehabilitation, neurology residency program, Kermanshah University of Medical Sciences,

Areas of Research Interests

1. Neurodevelopment
2. Neurotherapy and Neuromodulation
3. Neurological Rehabilitation
4. Neuroimaging
5. Artificial intelligence

Research Laboratory Skills

1. Laryngeal Stroboscopy, Iran University of Medical Sciences.
2. Fiberoptic Endoscopic Evaluation of Swallowing (FEES).
3. Transcranial Magnetic Stimulation (TMS), Iranian National Center for Addiction Studies. Tehran University of Medical Sciences.
4. Magnetic Resonance Imaging for brain studies, Tehran University of Medical Science
5. Neurofeedback, Parand Specialized Center for human enhancement.
6. Transcranial Direct Current Stimulation (tDCS), Institutes for Cognitive Sciences Studies, Tehran, Iran.
7. Polymerase chain reaction (PCR) and DNA extraction, Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran.
8. Polysomnography, Sleep Disorders Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran.
9. Quantitative EEG analysis, Sleep Disorders Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran.

Publications

1. **Mohammadi H**, Seidi P, Kakakhan MH, Jaff D, Brühl AB, Sadeghi-Bahmani D, Brand S. The long-term psychological and sleep-related consequences of the Halabja chemical attack: A cross-sectional and cross-generational study over three generations. *Journal of Affective Disorders*, 2026; 412: 122008. <https://doi.org/10.1016/j.jad.2026.122008>
2. **Mohammadi H**, Solouki L, Fayazfar M, Mahaki B, Badri H. Speech dysfluency variations across menstrual phases in adult women who stutter: A single-subject study. *Journal of Fluency Disorders*, 2025;86:106166. <https://doi.org/10.1016/j.jfludis.2025.106166>
3. Solouki L, Shahsavari S, Sharini H, Hashemian AH, Mohammadian Y, **Mohammadi H**, Mahaki B. Comparison of the performance of machine learning algorithms for the task-switching functional magnetic resonance imaging data for distinguishing attention deficit hyperactivity disorder from bipolar disorder.

- Journal of Research in Medical Sciences 30 (1), 56.
https://doi.org/10.4103/jrms.jrms_406_24
4. **Mohammadi H**, Ahmadi S, Rezaei M, Mahaki B, Khazie Kh, Aarabi A. Impact of Obstructive Sleep Apnea on Sleep Cycles and Spindle Dynamics: A Polysomnographic Study. *Physiology & Behavior*; 2025; 115106.
<https://doi.org/10.1016/j.physbeh.2025.115106>
 5. Solouki L, Sharini H, **Mohammadi H**, Jafari S, Mahaki B. Investigating the neural effects of emotional stimuli and pharmacological treatments on the emotional regulation network in fibromyalgia: A graph theory approach. *Brain Research Bulletin*; 2025; 111561.
<https://doi.org/10.1016/j.brainresbull.2025.111561>
 6. Felehgari S, Sariaslani P, Shamsizadeh S, Felehgari S, Rajabi A, **Mohammadi H**. Multi-classification Deep Learning Approach for Diagnosing Stroke Type and Severity Using Multimodal Magnetic Resonance Images. *Journal of Medical Signals & Sensors*. 2025;15(4):10. https://doi.org/10.4103/jmss.jmss_37_24
 7. **Mohammadi H**, Bakhtiary P. Family History of Stuttering among Kurdish Children Who Stutter Near the Age of Onset. *Advanced Biomedical Research*, 2024;13:68. https://doi.org/10.4103/abr.abr_233_23
 8. Steinmetz J, Seeher K, Schiess N et al. Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Neurology*. 2024; 23, 344-381.
[https://doi.org/10.1016/S1474-4422\(24\)00038-3](https://doi.org/10.1016/S1474-4422(24)00038-3)
 9. Hezarkhani LA, Moloudi H, Rostami A, **Mohammadi H**. Effects of Statins on hemorrhagic stroke incidence among hospitalized elderly patients. *Journal of Gerontology*. 2024; 9(1): 52-60. <http://dx.doi.org/10.22034/JOGE.9.1.52>
 10. Yaztappeh JS, Lorestani E, Zaheri Y, Rezaei M, **Mohammadi H**, et al. A Study of Emotion Regulation Difficulties, Repetitive Negative Thinking, and Experiential Avoidance in Adults with Stuttering: A Comparative Study. *Iranian Journal of Psychiatry*, 2023; 1-10. <https://doi.org/10.18502/ijps.v19i1.14341>
 11. Sariaslani P, Homagostar G, **Mohammadi H**. Dysphagia as a main symptom of myasthenia gravis in a middle-aged adult male: A case report. *Journal of Rehabilitation Sciences & Research*. 2022; 10(2): 106-108.
<https://doi.org/10.30476/jrsr.2022.93045.1221>
 12. Shourmasti FR, Khodamoradi M, Tamijani SMS, Rafeaie R, et al. The Effects of Transcranial Direct Current Stimulation Over the Dorsolateral Prefrontal Cortex on Cognitive Dysfunction in Alzheimer's Disease: A Narrative Review. *J Kermanshah Univ Med Sci*. 2023;27:2; e136442. <https://doi.org/10.5812/jkums-136442>
 13. Gharebaghian H, Mahmoodi A, Ghasemi A, **Mohammadi H**. Positive Troponin Level and Electrocardiogram Findings Among Kurdish Patients with Acute Ischemic Stroke. *J Kermanshah Univ Med Sci*. 2023; 27:1; e134193.
<https://doi.org/10.5812/jkums-134193>
 14. **Mohammadi H**, Maazinezhad S, Lorestani E, Zakiei A, Dürsteler KM, Brühl AB, Sadeghi-Bahmani D, Brand S. Sleep problems, social anxiety and stuttering severity in adults who do and adults who do not stutter. *Journal of Clinical Medicine*. 2023; 12(1): 161. <https://doi.org/10.3390/jcm12010161>

15. Sariaslani P, Asgharzadeh S, **Mohammadi H**, Ghanbari A, Hezarkhani LA, Shahbazi F, Mirzaeei Sh. Does resveratrol enhance recovery from acute ischemic stroke? A randomized, double-blinded, placebo-controlled trial. *Journal of Reports in Pharmaceutical Sciences*. 2011; 11(2):192. https://doi.org/10.4103/jrptps.JRPTPS_95_21
16. **Mohammadi H**, Aarabi A, Rezaei M, Khazaie H, Brand S. Sleep spindle characteristics in obstructive sleep apnea syndrome (OSAS). *Frontiers Neurology*; 2021;12:598632. <https://doi.org/10.3389/fneur.2021.598632>
17. Rahimi Sh, Rezaei M, Setareh P, Khazaie H, **Mohammadi H**. Geographical distribution of insomniac patients in western Iran. *Journal of Clinical Research in Paramedical Sciences*. 2021;10(2):e116250. <https://doi.org/10.5812/jcrps.116250>
18. Moradi F, **Mohammadi H**, Rezaei M, Sariaslani P, Razazian N, Khazaie H, Adeli H. A novel method for sleep-stage classification based on sonification of sleep electroencephalogram signals using wavelet transform and recurrent neural network. *European Neurology*. 2020; 83 (5): 468-486. <https://doi.org/10.1159/000511306>
19. **Mohammadi H**, Papadatou-Pastou M. Cerebral laterality as assessed by hand preference measures and developmental stuttering. *Laterality*. 2020; 25(2):127-149. <https://doi.org/10.1080/1357650X.2019.1621329>
20. Soroush A, Sariaslani P, Saeidi M, **Mohammadi H**, Komasi S. Predictors of Length of Hospital Stay in Stroke Patients and the Role of These Factors in the Management of Neurology Ward Hospital Beds. *Journal of Gerontology*. 2020; 4 (4) :15-20. <http://dx.doi.org/10.29252/joge.4.3.15>
21. **Mohammad H**, Rezaei M, Sharafkhaneh A, Ghadami MR, Khazaie H. Serum testosterone/cortisol ratio in people with obstructive sleep apnea. *Journal of Clinical Laboratory Analysis*. 2020; 34: e23011. <https://doi.org/10.1002/jcla.23011>
22. Seidi PAM, **Mohammadi H**, Khazaie H, Qudrat Abas N, Jaff D. Psychometric Properties of the Kurdish Version of Pittsburgh Sleep Quality Index. *Sleep Medicine*. 2019; 63: 75-81. <https://doi.org/10.1016/j.sleep.2019.04.022>
23. Rezaei M, **Mohammadi H**, Khazaie H. Alpha-wave Characteristics in Psychophysiological Insomnia. *Journal of Medical Signals and Sensors*. 2019; 9(4):259-266. https://doi.org/10.4103/jmss.JMSS_51_18
24. Sariaslani P, Parsa D, **Mohammad H**. Rehabilitation of persistent aphagia after Wallenberg syndrome by a novel combination method. *Iranian Journal of Neurology*. 2019; 18(2): 90-92. <https://ijnl.tums.ac.ir/index.php/ijnl/issue/view/96>
25. Razazian N, Mohammadi M, Hosseini F, Moradian N, Mohammadi H. The frequency of restless legs syndrome in patients with multiple sclerosis and its related factors. *J Kermanshah Univ Med Sci*. 2019; 23(4): e95511. <https://doi.org/10.5812/jkums.95511>
26. Bavafa A, Foroughi A, Jaberghaderi N, Khazaie H, **Mohammadi H**, et al. Binaural beat theta and its impact on primary insomniacs: A randomized clinical trial. *Medical Journal of Mashhad University of Medical Sciences* 62 (1), 138-146. <https://doi.org/10.22038/mjms.2019.14147>
27. **Mohammad H**, Naghdi H, Yazdani N, Zakiei A, Khazaie H. Sleep quality and psychological characteristics among earthquake victims in Sarpol-e Zahab, Iran.

- Archives of Trauma Research. 2019; 8(2): 93-98. https://doi.org/10.4103/atr.atr_32_19
28. Sariaslani P, Sultanabadi R, Hosseini F, **Mohammadi H**. The Incidence of Ischemic Stroke and Its Associated Factors in Young Adults in Kermanshah Over a Seven-Year Period. *J Kermanshah Univ Med Sci*. 2019; 23(2): e90139. <https://doi.org/10.5812/jkums.90139>
 29. **Mohammadi H**, Rezaei M, Faghihi F, Khazaie H. Hypothalamic–Pituitary–Gonadal activity in paradoxical and psychophysiological insomnia. *Journal of Medical Signals and Sensors*. 2019; 9(1): 59-67. https://doi.org/10.4103/jmss.JMSS_31_18
 30. **Mohammadi H**, Joghataei MT, Rahimi Z, Faghihi F, Farhangdoost H. Relationship between serum homovanillic acid, DRD2 C957T (rs6277), and hDAT A559V (rs28364997) polymorphisms and developmental stuttering. *J Commun Disord*. 2018;76:37-46. <https://doi.org/10.1016/j.jcomdis.2018.08.003>
 31. **Mohammadi H**, Rezaei M, Amiri SM, Rahimi Z, Mansouri K, Khazaie H. Sleep architecture and hypothalamic–pituitary–adrenal activity in paradoxical and psychophysiological insomnia. *Basic and Clinical Neuroscience*. 2018; 9(6):397-407. <https://doi.org/10.32598/bcn.9.6.397>
 32. **Mohammadi H**, Nasori M, Ghadami MR, Khaledi-Paveh B, Rezaie R, Khazaie H. Shared PTSD and paradox insomnia among wives of veterans with chronic war induced ptsd: a preliminary study. *Iran J Psychiatry Behav Sci*. 2018; 12(3):e12759. <https://doi.org/10.5812/ijpbs.12759>
 33. **Mohammadi H**, Joghataei MT, Rahimi Z, Faghihi F, Khazaie H, Farhangdoost H, Mehrpour M. Steroid Hormones and Sex Hormone Binding Globulin Levels, CYP 17 MSP AI (-34 T:C) and CYP19 Codon 39 (Trp:Arg) Variants in Children with Developmental Stuttering. *Brain and Language*. 2017;175:47-56. <https://doi.org/10.1016/j.bandl.2017.09.004>
 34. Rezaei M, **Mohammadi H**, Khazaie H. EEG/EOG/EMG data from a cross-sectional study on psychophysiological insomnia and normal sleep subjects. *Data in Brief*. 2017;15:314-319. <https://doi.org/10.1016/j.dib.2017.09.033>
 35. Global Burden of Disease Cancer Collaboration. Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived with Disability, and Disability-Adjusted Life-years for 32 Cancer Groups, 1990 to 2015: A Systematic Analysis for the Global Burden of Disease Study. *JAMA Oncol*. 2017;3(4):524–548. <https://doi.org/10.1001/jamaoncol.2016.5688>
 36. Rashidi Z, Rasouli F, **Mohammadi H**, Heidari H. Comparison of fine motor function between children with profound hearing loss and those with normal hearing. *Journal of North Khorasan University of Medical Sciences*. 2016; 8 (3) :417-425. <http://dx.doi.org/10.18869/acadpub.jnkums.8.3.417>
 37. Chehri A, **Mohammadi H**, Negahban S, Khazaie H. Sleep Hygiene Index: reliability and validity of the Persian version in the male population. *J Kermanshah Univ Med Sci*. 2016;20(1):e69744. <https://doi.org/10.22110/jkums.v20i1.3074>
 38. **Mohammadi H**, Joghataei MT, Khazaie H, Rezaei M. Late recovery from stuttering: Role of hand motor and inhibition control. *Iranian Journal of*

- Psychiatry. Iran J Psychiatry. 2016 Jan;11(1):51-8.
<https://pmc.ncbi.nlm.nih.gov/articles/PMC4888141/>
39. Nazari H, Rashedi V, **Mohammadi H**, Yousefi M. Relationship between cognitive status and activities of daily living among the elderly of nursing homes. J Kermanshah Univ Med Sci. 2015;18(12):e70733.
<https://doi.org/10.22110/jkums.v18i12.2390>
 40. Thorell LB, Veleiro A, Siu AF, **Mohammadi H**. Examining the relation between ratings of executive functioning and academic achievement: findings from a cross-cultural study. Child Neuropsychol. 2013;19(6):630-8.
<https://doi.org/10.1080/09297049.2012.727792>
 41. **Mohammadi H**, Bakhtiar M. Language Impairments and Neurogenic Stuttering Following a Subcortical Small Vessel Ischemia in a Bilingual Kurdish-Persian Aphasic Patient. Procedia-Social and Behavioral Sciences. 2013; 94:45-46.
<https://doi.org/10.1016/j.sbspro.2013.09.019>
 42. Rezaei M, **Mohammadi H**, Rashedi V. The relationship between feeding problems and mental retardation. Research in Rehabilitation Sciences. 2012; 8(3):419-25. <https://doi.org/10.22122/jrrs.v8i3.387>
 43. **Mohammadi H**, Bakhtiar M, Rezaei M, Sadeghi Kh. Stuttering behavior in Kurdish-Persian bilingual speakers. Procedia - Social and Behavioral Sciences. 2012; 23: 283-7. <https://doi.org/10.1016/j.sbspro.2012.01.041>
 44. Khazaie H, Asadi M, **Mohammadi H**. Influence of reinforcement behavioral therapy and Ellis cognitive therapy on derelict children's aggression in Kermanshah. J Kermanshah Univ Med Sci. 2012; 15(6):408-14.
<https://brieflands.com/journals/jkums/articles/78892>
 45. **Mohammadi H**, Rezaei M, Moradi S, Barani M, Badri B, Heidari A. Comparison of quality of life in people who stutter and normal individuals. J Kermanshah Univ Med Sci. 2012; 6(6): 480-6.
<https://brieflands.com/journals/jkums/articles/77340>
 46. Soleimani A, **Mohammadi H**, Khazaie H, Ertiahi F. Prevalence of speech disorders among Kermanshah primary schoolchildren. J Kermanshah Univ Med Sci. 2011; 14(3): 213-9. <https://brieflands.com/journals/jkums/articles/79362>
 47. **Mohammadi H**, Mohammadi R, Torabi F, Rezaei M. Formant structure and vowel space in Persian vowels. Audiology. 2011;20(2): 79-85.
https://aud.tums.ac.ir/browse.php?a_id=69&slc_lang=en&sid=1&printcase=1&hbnr=1&hmb=1
 48. **Mohammadi H**, Nilipour R, Yadegari F. Prevalence of stuttering in Kurdish-Persian consecutive bilinguals in Iran, Asia Pacific Journal of Speech, Language Hearing, 2010; 13 (4): 235-41. <https://doi.org/10.1179/136132810805335001>
 49. **Mohammadi H**, Nilipour R, Yadegari F, Karimlou M. Effect of language proficiency on the severity of stuttering in Kurdish-Persian bilingual students who stutter, Advances in Cognitive Science 2009; 11(3): 62-9.
<https://icssjournal.ir/article-1-64-en.html&sw=>
 50. **Mohammadi H**, Nilipour R, Yadegari F. Stuttering prevalence among Kurdish-Persian students; effect of the two language similarities. Iranian Rehabilitation Journal. 2008; 6(7&8):83-8.
https://irj.uswr.ac.ir/browse.php?a_id=80&sid=1.&slc_lang=en

Conference Presentation

1. **Mohammadi H.** Neurobiology of stuttering, Iranian Congress of Speech Therapy. Tehran, 2024.
2. **Mohammadi H.** Aphasia Screening and Enhanced Recovery. 15th Iranian Congress of Stroke. Tehran, December 2023.
3. **Mohammadi H.** Brain dopaminergic activity and sex steroids effects in developmental stuttering. 8th Iranian congress of neurodevelopmental disorders. Tehran, December 2017.
4. **Mohammadi H.** Neuropathology of Developmental Stuttering. 15th national congress of speech therapy. Tehran, 2016.
5. **Mohammadi H,** Bakhtiar M. Language Impairments and Neurogenic Stuttering Following a Subcortical Small Vessel Ischemia in a Bilingual Kurdish-Persian Aphasic Patient. 51st Annual Meeting of Academy of Aphasia. Lucerne, Switzerland, 2013
6. Mohammadi R, **Mohammadi H,** TorabiNezhad F. Formant structure of Persian vowel among 18-24 years old Persian people. 7th Iranian Congress of Speech Therapy, Iran University of Medical Sciences, Tehran, Iran, 2003
7. Shyani A, **Mohammadi H,** Abdi K, Comparison of oral stereognosis between 6-7 children in North and South of Tehran, 8th Iranian Congress of Speech Therapy, Iran University of Medical Sciences, Tehran, Iran, 2006.
8. **Mohammadi H.** Nilipour R. Bilingualism; problems and procedure, 1st Congress on Neurodevelopment, University of Social Welfare and Rehabilitation Sciences, Tehran, Iran, 2006.
9. **Mohammadi H.** Yadegari Fariba, Nilipour Reza, Effect of cultural factors on stuttering prevalence, 5th Iranian Congress of Epidemiology, Kurdistan University of Medical Sciences, Sanandaj, Iran, 2008.
10. **Mohammadi H.** Central Nervous System dysfunction in Stuttering, 8th Iranian Child Neurology Congress, Mashhad University of Medical Sciences, Mashhad, Iran, 2008.
11. **Mohammadi H,** Nilipour R, Yadegari F, Zabihi Z. Effect of Language proficiency on pattern of dysfluency in first and second language of bilingual stutterer, 9th Iranian Congress of Speech Therapy, Iran University of Medical Sciences, Tehran, Iran, 2008.
12. **Mohammadi H,** Nilipour R, Yadegari F. History of bilingualism and language knowledge in normal and stuttered bilingual students, 3rd International Congress of Cognitive Sciences, Institute for Cognitive Sciences Studies, Tehran, Iran, 2009.
13. **Mohammadi H.** Stuttering & Bilingualism; crosslinguistic approach to Kurdish-Persian Bilingual Stutterer. Summer School Congress of Linguistic organization of Iran, Hamedan, Iran, 2010
14. **Mohammadi H,** Bakhtiar M, Rezaei M, Sadeghi KH. Stuttering behavior in Kurdish-Persian bilingual speakers. 4th International Congress of Cognitive Sciences, Institute for Cognitive Sciences Studies, Tehran, Iran, 2011.