

## CURRICULUM VITAE

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### EDUCATION

1. **PhD** of Audiology, University Sains Malaysia (2016)
2. **Master of Science**, Audiology, Department of Audiology, Faculty of Rehabilitation Sciences, IRAN University of Medical Sciences (IUMS), 1997
3. **Bachelor of Science**, Audiology, Department of Audiology, SHAHID BEHESHTI University of Medical Sciences, 1984

### SPECIALTY / FIELDS OF INTEREST:

Audiology/ Diagnostic Audiology

Auditory Electrophysiology/ Auditory Evoked Potentials

Auditory Neurophysiology & Neuroplasticity

### CLINICAL & PROFESSIONAL AFFILIATION:

- 1) Lecturer in Audiology, Faculty of Rehabilitation Sciences, IRAN University of Medical Sciences since 1990.
- 2) Lecturer in Audiology, Faculty of Rehabilitation, Arak university of medical sciences
- 3) Member of Research committee of Audiology Department of Faculty of Rehabilitation Sciences of IUMS
- 4) Member of Board of Directors of IRAN Audiologists' Society (since 2015 till now)

I began working as a lecturer in 1990 for the Audiology department in faculty of Rehab. Sciences of IUMS. Prior to this time, I worked as a clinical scientist in the audiology clinic of the Rehabilitation Sciences faculty of IUMS since 1991.

I have clinical experience that includes the assessment of hearing disorders, the diagnostic assessment of hearing disorders and tinnitus evaluation in adults. I also have worked in an Electrophysiologic clinic and performed ABR (three infants and four adults per week), ALR and ASSR tests for more than 10 years. Moreover, I have experience for recording EchoG, AMLR and MMN responses.

### TEACHING EXPERIENCE:

1. Neuroscience II, **PhD** candidates, (IUMS), 2017 & 2018
2. Fundamentals of Hearing science, **BSc** students (IUMS), 2018
3. Auditory Electrophysiology, **MSc** students, (IUMS), 2017 & 2018
4. Clinical Audiology, **BSc** students, IUMS (IUMS), 2017
5. Acoustic and Phonetic, GTA 205, [University Sains Malaysia\(USM\)](#), 2012 & 2014
6. Introductory psychoacoustic& audiological tech. , GTA 202, [USM](#), 2012
7. Noise and Hearing, GTA 402/3, [USM](#), 2012
8. Auditory Electrophysiology, AHC 3123, [Int. Islamic University Malaysia](#), 2014
9. Auditory Electrophysiology, AHC 3123, [Int. Islamic University Malaysia](#), 2014
10. Audiology Intensive Course for ORL postgraduate candidates, (**Moderator**) [USM](#), 2014
11. MMN and Brain mapping, Brainetwork Dept., [USM](#), 2013
12. Site of lesions in CANS with ABR, [Otorhinolaryngology Dept. USM](#), 2012
13. Electrophysiological tests, [Postgraduate candidate of Audiology](#), [IUMS](#), 2003 till 2009
14. Methodology of teaching, [Postgraduate](#) candidate of Audiology, [IUMS](#), 2004 till 2009
15. Bases of Hearing Science, Graduate level, Audiology Dept. , [IUMS](#), 1991 till 2008
16. Tinnitus Evaluation Clinic, BSc students, Audiology Dept., [IUMS](#), 1993 till 2008
17. Electrophysiology Workshop (Lecturer) for [Members of Academic Board](#), 2007
18. Anatomy and Physiology of hearing and Balance, BSc students, [IUMS](#), 2006
19. Differential Diagnosis of Hearing Peripheral Lesions, BSc student, [IUMS](#), 1991 till 2005
20. Introduction to Electrophysiology tests, BSc students, [IUMS](#), 1995 – 2002
21. Practice of Electrophysiology tests, MSc candidate of Audiology, [IUMS](#), 1997 till 2006

22. Practice of Electrophysiology tests, BSc students, [IUMS](#), 1994 till 2008

#### RESEARCH PROJECTS:

- 1) Brain Plasticity in Children with Hearing Aids following a Novel Auditory Training: Electrophysiological and Behavioral Evaluations, [Jalaei, B.](#), Normani, M., 2016 till now
- 2) Recording Speech ABR in adults and children, [Jalaei, B.](#), Normani, M., 2013 till now
- 3) Comparison of vestibular evoked myogenic potentials (VEMPs) in patients with multiple sclerosis and normal individuals; Toofan, R.; [Jalaei, B.](#), 2009
- 4) To evaluate the destructive changes in cochlea due to high frequency tone through Hsp70 detection and histological analysis in conditioned guinea pigs in comparison with control group (part I); [Jalaei B.](#); Poorbakht A.; 2008
- 5) The effect of Noise Pollution on Acquisition and Recalling of a Task of Spatial Memory in Mature Male Rats; Dr. Naghdi, N. ; Dr. Mokhtari, P. ; [Jalaei, B.](#) ; Gharayat. M.A. , 2007
- 6) A Comparisomal Study of Ipsilateral and Contralateral Auditory Steady-State Response Threshold in Healthy Adults using 40 and 90 Hz MF; Shaabani, M.; [Jalaei, B.](#), 2007
- 7) Comparison of ASSR with 40 & 80 (Hz) MF and PTA Thresholds in Normal hearing and Mild and Moderate S.N.H.L; Jafarzadeh, Mohammad S. ; [jalaei,B.](#); 2007
- 8) The Effect of Masking Noise on Latency of Waves in Auditory Brainstem Responses; [Jalaei, B.](#) ; Talebi, H.; 2006
- 9) Survey of Waves in Auditory Brainstem Responses in Patients who Suffer of MS;Rostamian, Davood; [Jalaei, B.](#) ;Moosavi,S.A.; 2001
- 10) Recording of Mismatch Negativity; the first in IRAN; [Jalaei, B.](#) 2001
- 11) A Survey on Hyperbilirubinemias' Effects on Auditory Brainstem Responses and OAE Results in Neonates ;[Jalaei, B](#) & et al 2000
- 12) The Effects of Central Masking on Test Ear Latencies in Auditory Brainstem Responses; [Jalaei,B.](#) ; Moosavi,S.A. ; 1997

## SUPERVISION OF THESIS

- 1) Comparison of the Sound-Field Speech-ABR components between normal hearing children and cochlear implant recipients with good and weak word recognition, PhD dissertation (in progress) (second Supervisor) [2018](#)
- 2) Recording and analysis of speech-evoked ABR in Asian adults (Co-supervisor) [2014](#)
- 3) Comparison of vestibular evoked myogenic potentials (VEMPs) in patients with multiple sclerosis and normal individuals, (Supervisor) [2009](#)
- 4) A Comparisional Study of Ipsilateral and Contralateral Auditory Steady-State Response Threshold in Healthy Adults using 40 and 80 Hz Modulation Frequencies, [2007](#)
- 5) A Comparison of Thresholds in Auditory Steady-State Response with Pure Tone Audiometry in Subject with Normal Hearing and Mild and Moderate SNHL, [2007](#)
- 6) A Survey on Disorders of Auditory System in Iranian Handicapped War Veterans with Impaired Hearing in Orthostatic and Prosthetic Kowsar Clinic (Advisor) [2006](#)
- 7) Auditory Evoked Potentials (Supervisor) [2006](#)
- 8) Neuroaudiology (Translation of "Neuroaudiology by Musiek & et al) – Supervisor [2003](#)
- 9) A Survey on Hearing Status in a group of Patients with MS Disease (Advisor) [2001](#)
- 10) A Survey on Hearing Status in Blind Students at Blinds Boy School in Tehran (Advisor) [2001](#)
- 11) Cochlear Mechanisms (Supervisor) [2000](#)
- 12) Rehabilitation after Cochlear Implant and Oral Rehabilitation (Supervisor) [2000](#)
- 13) Behavioral Evaluation of Hearing in Neonates and Infants (Supervisor) [1999](#)
- 14) Hearing (Supervisor) [1998](#)
- 15) The Survey on Viewpoints Regarding Hearing Screening in Neonates and Children with Emphasis on ABR (Translation & Collection) (Supervisor) [1998](#)
- 16) Cochlear Hearing Loss – Etiology, Evaluation and Diagnosis (Supervisor) [1996](#)
- 17) Clinical Usage of OAE (Translation & Collection) (Supervisor) [1994](#)
- 18) New Methods in Tinnitus Evaluation (Supervisor) [1992](#)

## PRESENTATIONS (After 2000):

1. Opening Speech for the 16<sup>th</sup> Iranian congress on Audiology, Olympic Hotel, [2017](#)
2. sABR in hearing impaired children, 15<sup>th</sup> congress on Audiology, Olympic Hotel, [2016](#)

3. New development in Auditory Brainstem Response Measurement, **Member of panel discussion**, 15<sup>th</sup> congress on Audiology, Olympic hotel, [2016](#)
4. **Workshop** on speech-evoked ABR, Olympic hotel, [2016](#)
5. The challenge of diagnosis and rehabilitation of central auditory processing disorders in children, **Moderator** of panel discussion (in English & Persian), [2016](#)
6. **Workshop** on Teaching Technique with Speaking
7. Brain plasticity in children with hearing aids following a novel auditory training, [USM, 2012](#)
8. Malaysia as an developing country needs to an advanced auditory training program, [2<sup>nd</sup> Malaysian Audiology Conference, 2012](#)
9. Balance system, [2<sup>nd</sup> Malaysian Audiology Conference, 2012](#)
10. Measuring the accuracy of ASSR in predicting hearing thresholds, [2<sup>nd</sup> Malaysian Audiology Conference, 2012](#)
11. Central Auditory Nervous System plasticity in Children with hearing aids, [USM, ORL, 2011](#)
12. Neuroplasticity in Central Nervous System, Neurophysiology Dept. [USM, 2011](#)
13. A Comparison of Thresholds in ASSR with Pure Tone Audiometry in Subjects with Normal Hearing and those with Mild and Moderate Sensorineural Hearing Loss ([Poster presentation](#)), 2008, [29<sup>th</sup> International Congress of Audiology, 8-12 June, Hong Kong](#)
14. Fundamentals and Applications of ASSR in Clinical Audiology; ([Oral presentation](#))2008, [7<sup>th</sup> Iranian Congress of Audiology, 13- 15 May, Tehran- IRAN](#)
15. Neuroanatomy and Neurophysiology in Relation with ASSR; ([Oral presentation](#))2008, [Meeting of Members of Academic Board; Tehran University](#)
16. The Effects of Central Masking on Test Ear Latencies in Auditory Brainstem Responses; ([Oral presentation](#)) 2007, [5<sup>th</sup> ASIA PACIFIC Conference on Speech, Language and Hearing, Brisbane, Australia](#)
17. Hearing Aid Fitting In Infants and Children and The Effects on Neuroplasticity in Auditory Central Nervous System ( [Poster Presentation](#)), 2007, [5<sup>th</sup> ASIA PACIFIC Conference on Speech, Language and Hearing, Brisbane-Australia](#)
18. The Effect of Noise Pollution on Acquisition and Recalling a Task of Spatial Memory in Mature Male Rats;[6<sup>th</sup> Congress on Audiology, 2007, Tehran , IRAN](#)
19. Investigating Origin of Central Masking with Brainstem Evoked Responses; [5<sup>th</sup> Congress on Audiology, 2006, Tehran , IRAN](#)

20. Survey of Hearing Status with ABR in Patients with Definite MS ; [Neurotology and Neuroaudiology Congress , 2004](#), Tehran-IRAN
21. The Characteristics of Mismatch Negativity (MMN); [4<sup>th</sup> Congress on Audiology, 2002](#), IRAN
22. Detection of Hearing Status with Electrophysiological Tests in Developmental Delay Patients, [2002](#), Rehabilitation Sciences University, Tehran-IRAN
23. Usage of Auditory Evoked Potentials in Early Identification; [2002](#), Rehabilitation Sciences University, Tehran-IRAN
24. Auditory Event-Related Potentials (AERP), [Workshop Presentation ,2001](#), Faculty of Rehabilitation Sciences
25. Case reports: Abnormalities in ABR Waveforms in Acoustic Neuroma, Meningioma, Arachnoid's cyst, [Workshop presentation, 2001](#), Faculty of
26. Usage of Auditory Brainstem Responses in Differentiating of Central Auditory Nervous System, [2000](#), [Auditory Evoked Responses' Seminar](#), University of Mashed
27. Relation of Maturation of Auditory Nervous System with Improvement of Auditory Evoked Responses;[2000](#), [3<sup>rd</sup> Congress on Audiology](#) , Tehran-IRAN
28. Usage of Electrophysiological Tests in Hearing Aid Fitting;[2000](#), [Hearing Aid Meeting](#), Faculty of Rehabilitation Sciences(TUMS), Tehran-IRAN

#### **PUBLICATIONS:**

1. Development and psychometric validation of Malay version of parental report on Auditory Training (MyPRAT) questionnaire for clinical use. **(in English)**, Normani, M., [Jalaei, B.](#), Sidek D., 2017
2. Test-retest reliability of sABR in healthy children at a low sensation level. **(in English)**, Normani, M., [Jalaei, B.](#), 2017
3. Gender disparities in sABR in healthy adults: Any relation to head size? **(in English)**, [Jalaei, B.](#), Normani, M., ... et al., 2017
4. Abnormal ABR findings in a near-normal hearing child with Noonan Syndrome. **(in English)** [Jalaei, B.](#), Normani, M., Sidek, M., 2017
5. Are speech-evoked ABR outcomes influenced by ethnicity? **(in English)** Normani, M., [Jalaei, B.](#), ... 2016

6. Ipsilateral and contralateral recordings of the 40-Hz ASSR: Which one is better? **(in English)** Normani, M., [Jalaei, B.](#), Sidek, D., 2016
7. Mode of recording and modulation frequency effects of ASSR thresholds. **(in English)** [Jalaei, B.](#), Shaabani M., Normani Zakaria M., 2016
8. Gender and modulation frequency effects on ASSR thresholds. **(in English)** Normani, M., [Jalaei, B.](#) 2015
9. Protection of Noise-Induced Hair Cell damage by sound conditioning in guinea pigs. Pourbakht, [Jalaei](#). Medical Council Journal, 2012
10. Comparison of vestibular evoked myogenic potentials (VEMPs) in patients with multiple sclerosis and normal individuals, Rayhaneh Toofan, [Bahram Jalaei](#), [Audiology Journal of Tehran University](#)
11. The Effects of Recording Channel on Auditory Steady State Responses [Journal of Iran University of Medical Sciences](#)
12. Impairment of spatial performance by environmental noise **(in English)** [\(has accepted for publishing in Scholarly Research Exchange\)](#)
13. The Effects of Central Masking on Test Ear Latencies in Auditory Brainstem Responses **(in English)** [Asia Pacific Journal of Speech, Language, and Hearing](#) Volume 11, Number 2, pp. 1–10, Copyright © 2008 Plural Publishing, Inc.
14. The Effect of Noise on Acquisition and Retention of a Spatial Memory Task in Equal and Unequal Context in Mature Male Rats. [Harakat](#), Spring 2008; Volume 35 : 159-170
15. Acoustic Neuronoma detected by Auditory Brainstem Response test: A Case Report [Journal of Iran University of Medical Sciences](#), Volume 8. Number 23. Spring 2001
16. The Study on the Effect of Intensity of Noise on Latency in Auditory Brainstem Response [Audiology Journal of Tehran University](#), Volume 7 & 8. Spring & Summer 1998
17. Book: [Review on Cochlear Implant](#) (Farsi Language), 2001
18. Booklet: [Interpretation of Auditory Brainstem Responses](#), 2000
19. Booklet: [Diagnostic Tests in Audiology](#), 1998
20. Dissertation: [The Effect of Noise on Wave V Latency in ABR test](#), 1997
21. Booklet: [Review on Embryology of Hearing System and Maturation of AERs](#), 1997
22. Booklet: [Cochlear Implant](#), 1995
23. Booklet: [Case History](#), 1994

24. Booklet: [Strategy and Process of Audiology Progress, 1992](#)

#### Attending Courses & Workshops

- 1) **Workshop** regarding Arbitration on Research Projects
- 2) **Workshop** on SPSS software
- 3) **Workshop** on Renewal in Lessons' Plans
- 4) **Workshop** on Writing Articles
- 5) Workshop on Research Methods
- 6) Workshop on Educational Roots in Teaching Process
- 7) Workshop on Collecting of Scientific Data
- 8) Workshop on Evaluation of Improvement in Training
- 9) Workshop on Research Methods

#### SHORT-TERM RESPONSIBILITY:

- 1) [Member of International Audiology Society \(ISA\)](#)
- 2) [Member of Asia – Pacific association](#)
- 3) [Member of Board of Directors of IRAN Audiologists' Society\(2001-2008\)](#)
- 4) Scientific Secretary of 2<sup>nd</sup> Congress on Audiology of IRAN
- 5) Executive Secretary of 3<sup>rd</sup> Congress on Audiology of IRAN
- 6) Scientific Secretary of [ADVANCED ASPECTS'](#) Workshop on Audiology
- 7) Member of Scientific Board in 4<sup>th</sup> Audiology Congress in IRAN
- 8) Member of Scientific Board in COCHLEAR IMPLANT Congress
- 9) Member of Scientific Board in IRAN AUDIOLOGY & NEUROAUDIOLOGY Congress
- 10) Member of Editorial Board of Iranian Audiology journal
- 11) Member of Scientific Board of 5<sup>th</sup> Audiology Congress in IRAN
- 12) Member of Scientific Board of 6<sup>th</sup> Audiology Congress in IRAN
- 13) Member of Scientific Board of 7<sup>th</sup> Audiology Congress in IRAN