Mohammad Maarefvand's CV

Education:

- PhD (2011-2015) from **University of Melbourne, Australia**
- MSc. in Audiology (2004-2007) from **Iran University of Medical Sciences, Iran**
- BSc. in Audiology (2000-2004) from **Shahid Beheshti University of Medical Sciences, Iran**

Publication in peer-reviewed journals

Pitch matching in bimodal cochlear implant patients: Effects of frequency, spectral envelope, and level. M Maarefvand, PJ Blamey, J Marozeau. **The Journal of the Acoustical Society of America.** 2017, 142 (5), 2854-2865

A cochlear implant user with exceptional musical hearing ability. M Maarefvand, J Marozeau, PJ Blamey. **International Journal of Audiology.** 2013, 52 (6), 424-432

Sound-field speech evoked auditory brainstem response in cochlear-implant recipients. F Jarollahi, A Valadbeigi, B Jalaei, M Maarefvand, MM Zarandy**. Journal of Audiology and Otology.** 2020, 24 (2), 71

Comparing sound-field speech-Auditory Brainstem Response components between cochlear implant users with different speech recognition in noise scores. Jarollahi, F., Valadbeigi, A., Jalaei, B., Maarefvand, M., Motasaddi Zarandy, M., Haghani, H., & Shirzhiyan, Z. **Iranian Journal of Child Neurology.** 2022**,** 16(2), 93-105.

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- PhD (2011-2015) from **University of Melbourne, Australia**
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Comparing sound-field speech-Auditory Brainstem Response components between cochlear implant users with different speech recognition in noise scores. Jarollahi, F., Valadbeigi, A., Jalaei, B., Maarefvand, M., Motasaddi Zarandy, M., Haghani, H., & Shirzhiyan, Z. **Iranian Journal of Child Neurology.** 2022**,** 16(2), 93-105.

The prevalence of voice disorders and the related factors in university professors: a systematic review and meta-analysis. S Azari, A Aghaz, M Maarefvand, L Ghelichi, F Pashazadeh, YA Shavaki. **Journal of Voice.** Accepted 15 February 2022, Available online 11 April 2022

The additional effect of vestibular rehabilitation therapy on residual dizziness after successful modified Epley procedure for posterior canal benign paroxysmal positional vertigo. M Heydari, M Ahadi, B Jalaei, M Maarefvand, H Talebi**. American Journal of Audiology**. 2021, ۳۰(۳):۵۳۵-۵۴۳.

The efficacy of the Half Somersault manoeuvre in comparison to the Epley manoeuvre in patients with benign paroxysmal positional vertigo. MD Khaftari, M Ahadi, M Maarefvand, B Jalaei. **The Journal of International Advanced Otology.** 2021, ۱۷ (۵), ۴۱۷-۴۲۱.

Examination of speech signals' intensity reconstruction through evaluation of the frequency responses of behind-the-ear hearing aids fitted with NAL-NL2 and DSL i/o v5 prescription formulas . H Tavana, M Rouzbahani, SJ Sameni, M Maarefvand. **Function and Disability Journal.** 2020, 3 (1), 83-90

Thyroid-stimulating hormone and free thyroxine alterations in subjects with occupational hearing loss. N Ranjbar, H Arefi; M Maarefvand, A Pourbakht, A Shahbazi. **Indian Journal of Occupational & Environmental Medicine**. 2021, 25 (1), 4-10.

Vestibular Evoked Myogenic Potentials in Cervical Myofascial Pain Syndrome. Hamidi Nahrani, M., Akbari, M., Mansour Sohani, S., Mazaher Yazdi, M., Maarefvand, M. **Indian Journal of Otolaryngology and Head and Neck.** 2021, https://doi.org/10.1007/s12070-021-02772-w.

Relationship between vestibulo-ocular reflex gain and Dizziness Handicap Inventory score to predict effectiveness of vestibular rehabilitation**.** MH Nahrani, M Akbari, M Maarefvand.

Auditory and Vestibular Research. 2021, 30 (4), 273-279.

PhD Thesis:

Music perception in bimodal cochlear implant users. M Maarefvand, 2014, University of Melbourne, Australia

Approved Grants:

- Electrode-Neuron Interface (ENI) assessments in cochlear implant users with Spread Of Excitation (SOE), Electrical Compound Action Potential (ECAP) with different Inter Phase Gap (IPG) and pitch perception

- The assessment and comparison of GIN-ABR thresholds with behavioural temporal resolution tests with narrow and wide-band noises in normally hearing listeners with and without tinnitus, code: IR.IUMS.REC.1399.758

- Creating Persian music perception test for hearing aid users, code: validity and reliability of a psychoacoustic music instrument, code: IR.IUMS.REC.1400.801

- Pitch perception in normal hearing people fitted with hearing aids of frequency lowering processing, code: IR.IUMS.REC.1398.778

- The effects of frequency lowering processing methods on melody perception of people with sensorineural hearing, code: IR.IUMS.REC.1398.777

- Binaural and monaural gap in noise, code: IR.IUMS.REC.1398.992

- The efficacy of Half-Samersault manoeuvre in comparison to Eply manoeuvre in treatment of patients with benign paroxysmal positional vertigo, code: IR.IUMS.REC.1397.1134

- The assessment of the output SPL of personal music devices (cell phones) and their effects on hearing systems in 18-25 years old users in school of Rehabilitation Sciences, code: IR.IUMS.REC.1396.31898

Book:

Comprehensive Persian and English report writing for audiologic and vestibular assessments (with Persian and English samples), Pegah publication, 2019, Tehran, Iran.

Roles within audiology department:

- **Researcher:** I have been the principle supervisor to 5 postgraduate audiology students (whose papers yet to be published and not listed in the publication section) and consultant to 8 postgraduate audiology students in last 5 years.

- **Lecturer:** I have been teaching some audiology and research related subjects to both undergraduate and postgraduate audiology students. They have been listed in the "teaching subjects" below with some details. In addition, I have been lecturing in workshops regarding cochlear implant science.

- **Cochlear implant team member:** I participate in cochlear implant surgeries to perform intraoperative cochlear implant testing (for all three brands of Cochlear, MED-El and advanced Bionics).

- **Clinical audiologists:** I am a supervising clinician to audiology students in adult hearing assessment, pediatric auditory electrophysiological assessment unit, hearing aids and cochlear implant clinics and psychoacoustic and tinnitus lab.

- **Biostatistics:** I am consulted by postgraduate students regarding their research design and statistics before, during or after their research experiments. I am also reviewing research papers for Iranian Journal of Child Neurology and Function and Disability Journals.

- **Website admin:** I have created a website for audiology department and been admin for the audiology department of Iran University of Medical Sciences for three years.

Teaching subjects:

- Cochlear implants to PhD students (all aspects from psychophysics, medical and audiologic, candidacy criteria, programming, elecetrophysiologic assessment, to neuroscience, speech perception, music perception, auditory training)

- Diagnostic audiology (basic evaluation, middle ear measurement, cochlear and retrocochlear assessment)

- Psychoacoustics (sound, speech and music perception: theory and practice)

- Acoustics (sound, music and speech: theory and practice)

- Auditory electrophysiological assessment (OAE, ABR, EcochG, ASSR, MLR, LLR, Event-Related Responses and EEG)

- Elecetrophysiologic assessments in cochlear implant users (eCAP, SOE, eABAR, eMLR, and eLLR)
- Hearing aids (theoretical background, fitting principles, trouble shooting and consultation)

- Sound therapy and rehabilitation for tinnitus

- Biostatistics and research methods: principles of research design including conventional research methods in audiology

- Computer skills necessary for auditory research (e.g., applications for signal processing and creating sound and speech stimuli for audiology projects) and for research in general (e.g., reference managing, graphical and video editing and scientific presentation applications)

International conference presentations:

- ١١th Asia Pacific Symposium on Cochlear Implants and Related Sciences on ١٩- ٢٢th September, 2017, **Famagusta, Northern Cyprus**
- ٤th International Congress on Cochlear Implant and Related Sciences" on April ٢٧-٢٩,٢٠١٦ in **Shiraz, Iran**
- Joint Statistical Meetings, August, 2014 in **Boston, Massachusetts, USA**
- Conference on Implantable Auditory Prostheses (CIAP), July 14-19, 2013, **Lake Tahoe, California, USA**
- ٣th International Conference on Medical Bionics, November ١٧-٢٠, ٢٠١٣, **Phillip Island, Victoria, Australia**
- Music, Mind and Health Conference, 27-30 November, 2013**, Melbourne, Australia**
- Conference on Implantable Auditory Prostheses (CIAP), July 24-29, 2011, **Pacific Grove, California, USA**
- ٢rd International Conference on Medical Bionics, November ٢٠-٢٣, ٢٠١١, **Phillip Island, Victoria, Australia**

Work experience outside of the university:

- Clinical audiologist in private clinic: adult and paediatric hearing assessments with both behavioural and electrophysiological methods and fitting of different makes and brands of hearing aids with different technology level from analogue to wireless and ALDs (Siemens, Oticon, Phonak, Widex, Unitron, Rextion, Resound, AM, Hansaton and Interton)

Other skills

- EEG and ERP analyses with Matlab

- Sound, speech and music signal creation, processing and analyses with Matlab, Audacity, Adobe Audition, Praat (for speech and voice stimuli), cycling 74 (Max/MSP/Jitter), Abelton

- Statistical analyses with statistical software package as follow: SPSS, Minitab, Sigmaplot, Genstat, GPower

- Graphical skills (Inkscape, InDesign, GIMP, Paint.NET and Prezi)

- Content production applications (Camtasia, storyline and adobe captivate)

Membership:

- Iranian Audiology Association
- Iranian Medical Association
- American Statistical Association

Contact

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