*Curriculum Vitae*

*Karim Joharikhatoonabad (Johari), Ph.D.* ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Department of Communication Sciences and Disorders

Louisiana State University

Baton Rouge, USA.

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**EDUCATION**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* ***Ph.D.*** Communication Sciences and Disorders, University of South Carolina (2015-2019)
* ***Dissertation***: Behavioral and Neural Correlates of Aging Effects on Temporal Predictive Mechanisms During Speech Production and Limb Movement
* ***Advisor***: Dr. Roozbeh Behroozmand
* ***M.Sc.*** Speech Therapy, Tehran University of Medical Sciences (2008-2011)
* ***Thesis:*** Inflectional Morphology in Patients’ with Parkinson’s Disease
* ***Advisor***: Dr. Zahra Soleymani
* ***B.Sc.*** Speech Therapy, Iran University of Medical Sciences (2004-2008)

**ACADEMIC POSITIONS** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 2020-2021: Postdoctoral Research Scholar, University of Iowa, Department of Neurosurgery

**Project:** Neural Correlates of Speech Production and Limb Movement in Patients with Parkinson’s Disease: Insights from Local Field Potentials and Single Neurons Activities Within Subthalamic Nuclei

* 2019-2020: Postdoctoral Research Scholar, University of South Carolina, Department of Psychology

**Project:** Effects of High Definition transcranial Direct Current Stimulation (HD-tDCS) on Language-Motor Coupling and Lexicosemantic Processing in Healthy Individuals

* 2015-2019: Graduate Research Assistant, University of South Carolina, Department of Communication Sciences and Disorders
* 2011-2014: Instructor, Tabriz University of Medical Sciences, Department of Speech Therapy
* 2009-2012 Research Assistant, Shahid Beheshti University of Medical Sciences, Functional Neurosurgery Research Center

**RESEARCH INTERESTS** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Neural Correlates of Speech and Limb Motor Control
2. Normal Aging Effects on Speech and Limb Motor Control
3. Speech and Language Impairments in Parkinson’s Disease
4. Invasive (LFPs) and Noninvasive Electrophysiology (EEG)
5. High-Definition Transcranial Direct/Alternating Current Stimulation (HD-tD/ACS)
6. Machine Learning and Computational Modeling

**PROFESSIONAL AFFILIATION** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Neuroscience Society
2. Society for Neurobiology of Language

**AWARDS&HONORS** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Arnold School of Public Health Ph.D. Fellowship, University of South Carolina, 2015-2018.
2. Department of Communication Sciences and Disorders scholarship, University of South Carolina, 2015-2018.
3. Travel Grant to Present in Society for Neurobiology of language conference, Graduate School, University of South Carolina, 2017.
4. Travel Grant to Present in Cognitive Aging Conference, Arnold School of Public Health South Carolina, 2018.
5. Travel Grant to Present in Society for Neuroscience, Graduate School, University of South Carolina, 2018.

**FUNDING** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2018-2019: Validation of High Definition Transcranial Direct Stimulation (HD-tDCS) over Left Frontal and Parietal cortex as a Potential Clinical Method to Improve Motor Timing Deficits Related with Speech Production and Hand Movement in Parkinson’s disease. CAPCSD Scholarship Awarded, Total Budget: $20,000
2. 2017-2018: Effects of Neurostimulation on Speech Production and Hand Movement in Parkinson’s Disease. USC Arnold School of Public Health’s Graduate Scholar in Aging, Total Budget: $1,000

**PUBLICATIONS** ([Google Scholar](https://scholar.google.com/citations?hl=en&user=ITXxUDEAAAAJ&view_op=list_works&sortby=pubdate), [PubMed](https://pubmed.ncbi.nlm.nih.gov/?term=Karim%20Johari), [ResearchGate](https://www.researchgate.net/profile/Karim_Johari/research)) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Johari K,** Behroozmand R. Neural Correlates of Speech and Upper Limb Motor Timing Deficits Revealed by Aberrant Beta Band Desynchronizations in Parkinson’s Disease. Clinical Neurophysiology (2021).
2. **Johari K**, Riccardi N, Malyutina S, Modi M, Desai R. HD-tDCS over Motor Cortex Facilitates Action Sentence Processing. Neuropsychologia (2021)
3. **Johari K,** Behroozmand R. Event-related Desynchronization of Alpha and Beta Band Neural Oscillations Predict Speech and Limb Motor Timing Deficits in Normal Aging. Behavioural Brain Research (2020)
4. Behroozmand R, **Johari K**, Bridwell K, Hayden C, Fahey D, den Ouden DB. Modulation of Vocal Pitch Control through High-Definition Transcranial Direct Current Stimulation of the Left Ventral Motor Cortex. Experimental Brain Research (2020)
5. Phillip Johnson L, Sangtian S, **Johari K,** Behroozmand R, Fridriksson J. Slowed Compensation Responses to Altered Auditory Feedback in Post-Stroke Aphasia: Implications for Speech Sensorimotor Integration. Journal of Communication Disorders (2020)
6. Reifegerste J, Estabrooke I.V, Russell L.E, Veríssimo J, **Johari, K,** Wilmarth B, Pagan F.L, Moussa C and Ullman. Can Sex Influence the Neurocognition of Language? Evidence from Parkinson's Disease. Neuropsychologia(2020)
7. Behroozmand R, **Johari K,** Kelley R, Kapnoula E, Narayanan N, Greenlee J. Effect of Deep Brain Stimulation on Vocal Motor Control Mechanisms in Parkinson’s Disease. Parkinsonism & Related Disorders (2019)
8. Behroozmand R, **Johari K.** Pathological Attenuation of the Right Prefrontal Cortex Activity Predicts Speech and Limb Motor Timing Disorder in Parkinson’s Disease. Behavioural Brain Research (2019): **Equally Contributed**
9. **Johari K,** den Ouden DB, Behroozmand R. Behavioral and Neural Correlates of Normal Aging Effects on Motor Preparatory Mechanisms of Speech Production and Limb Movement. Experimental Brain Research (2019)
10. **Johari K ,** Walenski M, Reifegerste J, Ashrafi F, Behroozmand R, Daemi M & Ullman M.T. Dissociation between Syntactic and Lexical Processing in Parkinson’s Disease. Journal of Neurolinguistics (2019)
11. **Johari K ,** Walenski M, Reifegerste J, Ashrafi F & Ullman M.T.Sex, Dopamine, and Hypokinesia: A Study of Inflectional Morphology in Parkinson’s disease. Neuropsychology (2019)
12. **Johari K,** Walenski M, Reifegerste J, Ashrafi F, Behroozmand R, Daemi M, Ullman MT. A Dissociation between Syntactic and Lexical Processing in Parkinson’s Disease. Journal of Neurolinguistics (2019)
13. Behroozmand R, Phillip L, **Johari K,** Bonilha L, Rorden C, Hickok G, Fridriksson J. Sensorimotor Impairment of Speech Auditory Feedback Processing in Aphasia. Neuroimage (2018)
14. Behroozmand R, **Johari K.** Sensorimotor Impairment of Speech and Hand Movement Timing Processing in Parkinson’s Disease. Journal of Motor Behavior (2018): **Equally Contributed**
15. **Johari K,** Behroozmand R. Functional Dissociation of Temporal Processing Mechanisms during Speech Production and Hand Movement: An ERP Study. Behavioural Brain Research (2018)
16. **Johari K,** den Ouden DB, Behroozmand R. Effects of Aging on Temporal Predictive Mechanisms of Speech and Hand Motor Reaction Time. Aging Clinical and Experimental Research (2018)
17. **Johari K,** Behroozmand R. Premotor Neural Correlates of Predictive Motor Timing for Speech Production and Hand Movement: Evidence for a Temporal Predictive Code in the Motor System. Experimental Brain Research (2017)
18. **Johari K,** Behroozmand R. Temporal Predictive Mechanisms Modulate Motor Reaction Time during Initiation and Inhibition of Speech and Hand Movement. Human Movement Science (2017)
19. **Johari K,** Ashrafi F, Zali A, Ashayeri H, Fabbro F, & Zanini S. Grammatical Deficits in Bilingual Azari – Farsi Patients with Parkinson's Disease. Journal of Neurolinguistics (2013)
20. Ashrafi F, Zali A, Pakdaman H & **Johari K**.Cognitive Impairments in Parkinson’s Disease: Evidence from Iranian’s Population. Iranian Journal of Neurology (2012)
21. **Johari, K** & Ashayeri H. The Grammatical Deficit in Regular Past Tense Formation: Study of Persian Speaking Population with Parkinson Disease. Stem-, Spraak- en Taalpathologi (2012)
22. Ashrafi F, Mohammadhassanzadeh H , Shokraneh F, Valinejadi A, **Johari K** & Saemi N. Iranians’ Contribution to World Literature on Neuroscience. Health Information & Libraries Journal (2012)

**PAPERS in PREPRATION/ UNDER REVIEW** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Kopf L, Rohl A, Nagao T, Bryant K, **Johari K,** Tjaden K, Greenlee J. Voice Handicap Index in Parkinson’s patients: Subthalamic versus Globus Pallidus Deep Brain Stimulation. Journal of Clinical Neuroscience (Under review)
2. Riccardi N, **Johari K,** Rorden C, Fridriksson J& Desai R. A Tale of Two Hubs: A Lesion Investigation of Lexical and Semantic Processing in the Anterior Temporal Lobe and Temporoparietal Junction. ( *In preparation*).
3. **Johari K,** Kelley R, Tjaden K, Patterson C, Rohl A, Berger J, Corcos D& Greenlee J. Subthalamic nucleus neurons differentially encode speech and limb movement in Parkinson's disease (*In preparation*)
4. Phillip L, Sangtian S, **Johari K,** Behroozmand R, Fridriksson J. Neurophysiological Correlates of Speech Sensorimotor Impairment in Aphasia. Clinical Neurophysiology ( *In preparation*).
5. **Johari K**&Behroozmand R. Non-Invasive Stimulation of Left Ventral Motor Cortex Improves Speech and Limb Motor Timing in Parkinson’s Disease: An EEG HD-tDCS Study. ( *In preparation*)
6. Behroozmand R, **Johari K,** Greenlee J .Modulation of Beta Band Oscillations through Deep Brain Stimulation Improves Vocal Pitch Control in Parkinson’s Disease. ( *In preparation*).
7. Behroozmand R, Fitzpatrick M, Thompson E, **Johari K**. Effects of High Definition transcranial Direct Current Stimulation of the Left Ventral Motor Cortex on Speech and Hand Motor Timing. ( *In preparation*).
8. **Johari K,** Riccardi N& Desai R. Anodal HD-tDCS of Left Anterior Temporal Lobe Enhances Lexical, but not Semantic Processing ( *In preparation*).

**CONFERENE PRESENTATION** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Johari K,** Riccardi N & Desia R. Lexical vs. Semantic Processing in the Temporal Lobe: An HD-tDCS Study. 13th Annual Meeting of Society for the Neurobiology of Language (SNL), Held Virtually (2020)
2. **Johari K**, Behroozmand R. Neural Correlates of Impaired Speech and Hand Motor Timing Processing in Parkinson’s Disease. IMB Conference on Executive Function in Mind and Brain, University of South Carolina, Columbia, SC (2019)
3. Behroozmand R, Phillip L, **Johari K,** Bonilha L, Rorden C, Hickok G, Fridriksson J. Sensorimotor Impairment of Speech Production and Motor Control in Post-Stroke Aphasia: Evidence from Behavioral and Neurophysiological Biomarkers. Motor Speech Conference, Savannah, GA (2018)
4. Behroozmand R, Sangtian S, Phillip L, **Johari K,** Bonilha L, Rorden C, Hickok G, Fridriksson J. Brain Lesion Associated with Impaired Sensorimotor Processing of Speech Auditory Feedback in Aphasia. Neuroscience Community Retreat, University of South Carolina, Columbia, SC (2018)
5. **Johari K,** Behroozmand R. Neural Correlates of Impaired Speech and Hand Motor Timing Processing in Parkinson’s Disease. 48th Annual Meeting of Society for Neuroscience (SfN), San Diego, CA (2018)
6. **Johari K,** Behroozmand R. Age-related Changes in Temporal Processing Mechanisms of Speech Production and Hand Movement: An ERP Study. Cognitive Aging Conference, Georgia Tech University, Atlanta, GA (2018)
7. **Johari K,** Behroozmand R. Cathodal Stimulation Improves Motor Timing Deficits in Parkinson’s Disease during Speech Production and Hand Movements. University of South Carolina Discovery Day, Columbia, SC (2018)
8. Hyatt K, Sovde N, McDuffie C, **Johari K,** Behroozmand R. Effect of Altered Auditory Feedback on Sensorimotor Deficits in Aphasic Individuals. University of South Carolina Discovery Day, Columbia, SC (2018)
9. Fitzpatrick M, Thompson E, **Johari K,** Behroozmand R. Effects of high definition transcranial direct current stimulation (HD-tDCS) on motor reaction time during speech production and hand movement. University of South Carolina Discovery Day, Columbia, SC (2018)
10. Behroozmand R, **Johari K,** Herath P, Greenlee JG. Neural Correlates of Impaired Motor Timing Processing during Speech Production and Hand Movement in Parkinson’s disease. 47th Annual Meeting of Society for Neuroscience (SfN), Washington, DC (2017)
11. Behroozmand R, Phillip L**, Johari K,** Bonilha L, Rorden C, Hickok G, Fridriksson J. Brain Lesion Associated with Impaired Sensorimotor Processing of Speech Auditory Feedback in Aphasia. 9th Annual Meeting of Society for the Neurobiology of Language (SNL), Baltimore, MD (2017)
12. den Ouden DB, **Johari K,** Bridwell K, Hayden C, Behroozmand R. Modulation of the Speech Motor Control Network through High-Definition Transcranial Direct Current Stimulation. 7th International Conference on Speech Motor Control, Groningen, the Netherlands (2017)
13. **Johari K,** Reifegerste J, Walenski M, Ashrafi F, Behroozmand R, Ullman M. Language impairment and improvement in Parkinson’s disease: what, when, and why. 9th Annual Meeting of Society for the Neurobiology of Language (SNL), Baltimore, MD (2017)
14. Reifegerste J, **Johari K,** Walenski M, Ashrafi B, Behroozmand R, Ullman M. A Comprehensive Examination of Language in Parkinson’s Disease: Evidence from Syntax, Morphology, and Lexical Processing. 24th Annual Meeting of Cognitive Neuroscience Society (CNS), San Francisco, California (2017)
15. Hurst E, Johnson M, Neal S, **Johari K,** Herath P, Behroozmand R. Neurobasis of Impaired Voice Motor Control in Parkinson’s Disease. University of South Carolina Discovery Day, Columbia, SC (2017)
16. **Johari K,** Herath P, Behroozmand R. Neural correlates of impaired temporal processing before initiation and inhibition of speech production and hand movement: Evidence from Parkinson’s disease. University of South Carolina Discovery Day, Columbia, SC (2017)
17. Behroozmand R, Herath P, **Johari K,** Kelley R, Kapnoula, Bryant K, Narayanan N, Greenlee JDW. Effects of STN deep brain stimulation on voice motor control in Parkinson’s disease. Annual Meeting of Society for Neuroscience (SfN),San Diego, CA (2016)
18. Behroozmand R, Herath P, **Johari K,** Kelley R, Kapnoula, Bryant K, Narayanan N, Greenlee JDW. Effects of STN deep brain stimulation on voice motor control in Parkinson’s disease. University of South Carolina Neuroscience Retreat, Columbia, SC (2016)
19. **Johari k**, Walenski M, Ashrafi F, Daemi M & Ullman M. Sex Differences in Farsi Past-Tense Formation in Patients with Parkinson’s Disease. The 5th International Conference of Cognitive Science (ICCS 2013). Tehran, Iran (2013).
20. **Johari k** &Ashayeri H. The Grammatical Deficit in Regular Past Tense Formation: Study of Persian Speaking Population with Parkinson Disease”. 13th Science of Aphasia, SOA, Groningen, The Netherlands (2012).
21. **Johari k** & Ashayeri H. Syntactic Impairments in Bilingual Patients with Parkinson’s Disease”. The 11th National Conference of Speech Therapy, Isfahan, Iran (2012).
22. **Johari k,** Ashayeri H ,Ashrafi F, Zali A & Dabirmoghadam M. Past tense Formation in PD Patients :Evidence from DP Model”. Fifth Symposium of Neuropsychology, Tehran, Iran (2011)
23. **Johari k** & Ashayeri H. Language Organization in Bilingual Brain. 4th Symposium of Neupsychology, Tehran, Iran (2009).
24. **Johari k** & Ashayeri H. Paradoxical Successive Recovery in Bilingual Aphasia. 10th Science of Aphasia, SOA, Antalya, Turkey (2009).

**INVITED TALKS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Johari K.** Temporal Predictive Codes in Speech and Hand Motor System in Patients with Parkinson’s Disease. University of Colorado at Boulder, February 2020
2. **Johari K.** Neural Correlates of Impaired Temporal processing of Speech Production in Patients with Parkinson’s Disease. University of Wisconsin at Madison, June 2019.
3. **Johari K.** Temporal Predictive Mechanisms for speech and hand movement. The University of Southern Mississippi, April 2019.
4. **Johari K.** Neural Basis of Temporal Predictive Mechanisms in the Motor System: Evidence from Parkinson’s disease. University of Texas, Medical center. March 2019.
5. **Johari K.** Neural basis of Temporal Predictive Mechanisms in the Motor Systems. University of California at San Francisco, February 2019.
6. **Johari K.** Temporal Predictive Mechanisms for Speech and Hand Motor System. Boston University, January 2019
7. **Johari K.** Temporal Predictive Codes in the Motor System. The University of Iowa, November 2018.

**TEACHING EXPERIENCE**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2017-2018 Introduction to Communication Sciences and Disorders, Department of Communication Sciences and Disorders, University of South Carolina, Columbia, Sc.
2. 2013- 2014 Differential Diagnosis in Speech and Language Disorders, Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
3. 2012-2014 Aphasiology. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
4. 2012-2014 Language Processing. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
5. 2012-2014 Specific Language Impairments Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
6. 2011-2014 Clinical Methods in Speech Therapy Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
7. 2011-2014 Communication Disorder in Aging Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
8. 2010-2014 Neurolinguistics & Psycholinguistics Department of Applied Linguistics, Payame Nur University, (Tehran Branch), Tehran , Iran.
9. 2009-2014 Teaching Assistant. Neurolinguistics, Cognitive Science, Neuroscience and Applied linguistics, Tehran University of Medical Sciences. Tehran, Iran.

**THESIS & PROJECT ADVISOR** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2012-2013 Narrative Analysis in Azeri-Farsi Bilingual people. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran.
2. 2012-2013 Spontaneous and Narrative Speech in Bilingual Patients with Parkinson’s Disease. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran
3. 2013-2014 Handedness and Syntax Processing. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran
4. 2013-2014 Narrative Analysis in Traumatic Brain Injury. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran

**JOURNAL REVIEWER** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Journal of Cognitive Neuroscience
2. Cognitive Neuroscience
3. Cortex
4. Frontiers in Psychology
5. Frontiers in Aging Neuroscience
6. Neuropsychologia
7. Brain and Language
8. Behavioral Brain Research
9. Experimental Brain Research
10. Journal of Speech, Language &Hearing Research
11. Aging, Neuropsychology and Cognition
12. Clinical Linguistics and Phonetics

**RESEARCH SKILLS** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Signal Processing and Computational Modeling
2. Programming in Pyhton, Matlab, R and SPSS
3. Non-invasive Human Electrophysiology (EEG, ERP, Time Frequency)
4. Invasive Human Electrophysiology (Neural Spikes and LFPs)
5. Non-invasive Neuromodulation (HD-tDCS, HD-tACS, tDCS)
6. Machine Learning and Statistical Analysis

**CLINICAL ACTIVITITES** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2008- 2014 Speech Therapists for Aphasia and Related Disorders. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran
2. 2010- 2014 Neuropsychological Assessment and Intervention for Neurodegenerative Disorders (Parkinson’s Disease & Alzheimer). Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran
3. 2010- 2014 Clinical Instructor for BSc. Students in Speech Therapy. Department of Speech Therapy, Tabriz University of Medical Sciences, Tabriz, Iran

**SOFTWARES** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Eprime, (Experimental Design)
2. Plexon (Spike Sorting)
3. Endnote (Reference Manager)
4. Microsoft Office
5. Adobe illustrates

**LANGUGAES**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Azari, Turkish, Farsi, English

**EXTRACURRICULAR ACTIVITITES**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Sports: Racquetball (A Level Player, 3 Amateur Championships), Tennis, Badminton
2. Reading: Philosophy, Sociology, Biology
3. Favorite Movie: Theory of Everything (Life of Stephen Hawking)
4. Social Activities: Volunteering, Cultural Festivals as well as Local Events