

**Fadwa A Khwaileh, Ph.D**

Associate professor of speech language pathology  
Jordan University of Science and Technology

**CONTACT INFORMATION**

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**EDUCATION**

- May, 2011: Ph.D. Speech and Hearing Science, *University of Tennessee–Health Science Center*. Memphis, TN. Major advisor: Molly Erickson, Ph.D. Dissertation title: Temporal and Aerodynamic Aspects of Velar Coarticulation: Effects of Age, Gender and Vowel Height.
- December, 2005: MA. Linguistics, *Yarmouk University, Jordan*.  
Thesis title: A Pragmatic Analysis of Jordanian Arabic and American English Refusal Strategies.
- August 2000: B.A, English Language and Literature, *Yarmouk University, Jordan*, (graduated with honor).

**RESEARCH INTERESTS**

- Acoustic characteristics of speech produced by children with cochlear implant
- Speech intelligibility in children with cochlear implants
- Grammatical and phonological aspects of children with Down Syndrome
- Assessment of Cleft palate speech
- Speech aerodynamics
- Speech sounds disorders
- Development of syntax and Morphology in Arabic speaking children

**WORK EXPERIENCE**

- Oct 2019 – present. Associate Professor, Department of Rehabilitation Sciences, Jordan University of Science and Technology.
- Feb 2012 – Oct 2019. **Assistant Professor**, Department of Rehabilitation Sciences, Jordan University of Science and Technology.
- Feb 2012 - Feb 2012. **Assistant Professor**, Department of Allied Medical Sciences, Jordan University of Science and Technology.
- Aug 2011 – Jan 2012. **Part time Instructor**, Department of Allied Medical Sciences, Jordan University of Science and Technology.
- August 2006 – May 2011. **Graduate Research Assistant**. Dept. of Audiology and Speech Language Pathology, University of Tennessee-Health Science Center.
- September 2002- September 2005. **Teacher of English as a Second Language**. Model School. Yarmouk University, Jordan.

**PROFESSIONAL AFFILIATIONS**

- Member of the American Speech-Language-Hearing Association (ASHA).
- Member of the Acoustical Society of America (ASA).

**PUBLICATIONS**

- **Khwaileh, F.A.**, Flipsen, P., Hammouri, H., & Al-Zoubi, F.Q (2019). Acoustic Characteristics of Arabic Pharyngealized Obstruents in Children with Cochlear Implants. *The Journal of the Acoustical Society of America*. 146(2). 893–908.
- **Khwaileh, F.A.**, Alfwaress, F.S. (2018) Normal Patterns of Nasometric Values in Adult Jordanian Speakers of Arabic. *Journal of Craniofacial Surgery*.29(8), 2043-2047
- **Khwaileh, F.A.**, Alfwaress, F.S., Kummer, A.W., Alrawashdeh, M. (2017). Validity of Test Stimuli for Nasalance Measurement in Speakers of Jordanian Arabic. *Logopedics Phoniatrics Vocology*, 42(3), 93–100.
- Alfwaress, F.S., **Khwaileh, F.A.**, Rawashdeh, M.A.A., Alomari, M.A. and Nazzal, M.S. (2017) Cleft lip and palate: demographic patterns and the associated communication disorders. *Journal of Craniofacial Surgery*, 28(8), pp.2117-2121.
- Alfwaress, F.S., **Khwaileh, F.A.**, Khamaiseh, Z.A. (2015). The Speech Language Pathologist's Role in the Cleft Lip and Palate Team. *Journal of Craniofacial Surgery*, 26 (4), 1439-1442.
- **Khwaileh, F.A.**, & Flipsen, P. (2010). Single word and sentence intelligibility in children with cochlear implants. *Clinical Linguistics and Phonetics*, 24(9),722-733.

#### **PARTICIPATION IN REGIONAL AND INTERNATIONAL CONFERENCES**

- Flipsen, P., Jr., & **Khwaileh, F.** (November, 2018). *Developmental Changes in Pharyngealized (Emphatic) Fricatives in Jordanian-Arabic: Acoustic Aspects*. Poster presentation at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Boston, MA.
- **Khwaileh, F.A.**, Alfwaress, F.S. (November 2016). *Developing the Nasalance Assessment Protocol for Speakers of Jordanian Arabic*. The 2<sup>nd</sup> Conference of Jordanian Universities in Rehabilitation Sciences (JUST), Jordan.
- **Khwaileh, F.**, Zajac, D., & Erickson, M. (November, 2010). *Temporal and aerodynamic aspects of velar coarticulation in normal speakers*. Technical paper to be presented at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Philadelphia, PA.
- Robertson, S., Von Hapsburg, D., Johnstone, P., Hay, J., & **Khwaileh, F.** (November, 2010). *Effect of Hearing Loss on Perception of Infant-Directed Speech*. Poster presentation at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Philadelphia, PA.
- Robertson, S., Von Hapsburg, D., Johnstone, P., Hay, J., & **Khwaileh, F.** (June, 2010). *The effect of hearing loss on infant directed speech*. Poster presented at Annual Southeast Regional Early Hearing Detection and Intervention Conference. Knoxville, TN.
- **Khwaileh, F.**, & Flipsen, P. Jr. (November, 2008). *Single Word-Level and Sentence-Level Intelligibility Measures in Children with Cochlear Implants*. Technical paper presentation at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Chicago, IL.
- **Khwaileh, F.**, & Ha, S. (November, 2008). *Temporal Aspects of Aerodynamic Segments of Velopharyngeal Coarticulation in Children and Adults*. Technical paper presentation at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Chicago, IL.

- Flipsen, P., Jr., **Khwaileh, F.**, & Erickson, M. (November, 2007). *Transcription vs. Multiple Choice Scoring on the CSIM*. Poster presentation at the Annual Convention of the American Speech-Language-Hearing Association (ASHA), Boston, MA.

### **ONGOING PROJECTS/RESEARCH**

- Developing the Jordanian SNAP-Test for Measuring Nasalance in Speakers of Jordanian Arabic. (CO-PI, Funded by JUST) (ongoing)
- The Efficacy of Transcranial Direct Current Stimulation for the Treatment of Aphasia Patients. (CO-PI, Funded by JUST) (ongoing)
- Demographic patterns and Determinants of Conversion Aphonia in Jordan. (CO-PI, Funded by JUST) (ongoing)
- Temporal aspects of nasal flow segments corresponding to anticipatory and carryover velar coarticulation in children and adults.
- Spectral and temporal characteristics of fricatives in Arabic speaking children with cochlear implant.
- The emerging of voicing contrast in plosives produced by Jordanian children with cochlear implant.
- Establishing the validity and reliability of the Arabic version of the assessment of auditory skills in infants and young children (LittleEars®).
- Currently developing an Arabic version of The MacArthur Bates Communicative Development Inventory for words and Gestures (McArthur-CDI)
- Establishing a protocol for clinical assessment of cleft palate speech for Jordanian Arabic speakers.

### **PEER REVIEWING**

Served as a peer reviewer for the following Journals:

- Clinical Linguistics and Phonetics
- Folia Phoniatica et Logopaedica
- Journal of Child Language
- Logopedics Phoniatrics Vocology

Other Reviews:

- Scientific Research Support Fund (SRF), Ministry of Higher Education and Scientific Research, Jordan. (Reviewer of grant proposals). February 2018
- External evaluator for a Post Tenure Review for a faculty member at Pacific State University. (March 2020).

### **TEACHING EXPERIENCE AND COURSES**

#### **Courses in Jordan University of Science and Technology**

September 2011 till present: provided coordinating and teaching the following courses:

- Anatomy and physiology of speech
- Anatomy and physiology of speech (lab)
- Auditory - verbal therapy (lab)
- Auditory-verbal therapy

Aural rehabilitation  
Cerebral palsy & dysphagia (lab)  
Cleft lip & palate (lab)  
Cleft palate  
Clinical practicum / audiology (1)  
Clinical practicum / audiology (4)  
Clinical practicum /audiology (2)  
Clinical practicum /speech (1)  
Clinical practicum /speech (2)  
Clinical practicum /speech (3)  
Clinical practicum /speech (4)  
General linguistics  
Introduction to audiology & speech pathology  
Language acquisition and development  
Language development for normal & hearing-impaired children  
Language development for normal & hearing-impaired children (lab)  
Learning theories & disabilities  
Medical speech pathology  
Phonetics: theory & application  
Phonetics: theory & application(lab)  
Physiology & anatomy of hearing and speech  
Stuttering (lab)

**Courses in University of Tennessee-Health Science Center**

**Spring 2009.** Dept. of Audiology and Speech Pathology, University of Tennessee-HSC.

ASP 300: Introduction to Communication Disorders.

ASP 306: Anatomy and Physiology of Speech Production.

**Spring 2010.** Dept. of Audiology and Speech Pathology, University of Tennessee-HSC.

Visiting lecturer for ASP 540: Structural Speech Disorder. Gave tutorial and demonstration to graduate SLP students on the use of speech aerodynamic technique in the assessment of velopharyngeal inadequacy and on the efficacy of Continuous Positive Air Pressure (CPAP) in the treatment of individuals with VPI.

**Fall 2010.** Dept. of Audiology and Speech Pathology, University of Tennessee-HSC.

Visiting lecturer for ASP 539: Motor Speech Disorders. Gave lectures on assessment and management of pediatric motor speech disorders including childhood apraxia of speech and cerebral palsy.

**GRANTS AND AWARDS**

- Fall 2019: Scientific Research Support Fund Grant, Ministry of Higher Education and Scientific Research, Jordan. Normal Vocal Parameters in Jordanian Speakers of Arabic. CO-PI. JD 30000
- Spring 2019: Scientific Research Support Fund Grant, Ministry of Higher Education and Scientific Research, Jordan. Developing and Standardizing the “Arabic Diagnostic Assessment of Language Functions” for children and Adolescents. JD 65000 (unsuccessful)
- Fall 2014: Faculty Member Research Grant, Jordan University of Science and Technology. Developing the Nasalance Assessment Protocol for Speakers of Jordanian Arabic JD 2000.
- Summer 2012: Faculty Member Research Grant, Jordan University of Science and Technology. Effect of Hearing Loss on the Acoustic Characteristics of Arabic Pharyngealized Consonants JD 12000.

- Spring 2010: College of Graduate Health Sciences Award. University of Tennessee-Health Science Center \$1000.
- Spring 2010: College of Graduate Health Sciences Award for outstanding graduate student. University of Tennessee-Health Science Center \$1500.
- Fall 2010: College of Graduate Health Sciences Travel Award. University of Tennessee-Health Science Center \$1000.
- Summer 2009: Completed a written predoctoral fellowship to NIDCD on "Normal temporal and Aerodynamic Aspects of Velopharyngeal Coarticulation" for partial fulfillment of doctoral comprehensive examinations. (Fellowship was reviewed by the student's doctoral committee).
- Summer 2009: American Speech and Hearing Foundation Graduate Student Award.
- Fall 2008: Golden Key Award for graduate student outstanding academic achievement.
- Fall 2008: Graduate Student Association Travel Award University of Tennessee-Knoxville \$200.

**ACADEMIC FACULTY AND DEPARTMENT COMMITTEE MEMBERSHIP:**

- (2012/2013): Member of the Faculty of Applied Medical Sciences Council.
- (2012-present): Member of the Department of Rehabilitation Sciences Council
- (2013/2014): Academic member at the Faculty of Applied Medical Sciences Committee for Scientific Research.
- (2015/2016): Academic member at the Department of Rehabilitation Sciences Committee for Scientific Research, Curriculum, and Library Committees.
- (2015/2016): Member of the Faculty of Applied Medical Sciences Council.
- (2015/2016): Member at the Faculty of Applied Medical Sciences Committee for Scientific Research, and Faculty Accreditation Committee.
- (2018/2019): Member at the Department of Rehabilitation Sciences Committee for Scientific Research.
- (2019/2020): Member at the Department of Rehabilitation Sciences Committee for Scientific Research.

**CURRICULUM REFORM, ACADEMIC PROGRAMS' ACCREDITATION EXPERIENCES AND OTHER SERVICES:**

- Fall 2017: Participated in the activities to obtain the ASIC accreditation for the Faculty of Applied Medical Sciences at JUST.
- Summer 2014: Constructed a course curriculum for a potential master degree in Speech-Language Pathology at JUST in both thesis and comprehensive tracks with courses descriptions and prepared syllabi for some courses.
- Spring 2014: Prepared an application for the accreditation of the Bsc Program in Hearing and Speech at JUST by the Higher Education Accreditation Commission, Jordan.
- Summer 2014: Prepared an examination for applicants of the position speech language pathologist at the Hearing and Speech Clinic at King Abdullah University Hospital.
- Summer 2013: A member of departmental committee to reform the Bsc curriculum in Hearing and Speech at JUST.
- Spring 2015: Member of the Scientific Committee of the Annual Conference of Jordanian Universities in Rehabilitation Sciences.

**COMMUNITY HEALTH SERVICES AND EDUCATIONAL LECTURES:**

- (Nov. 20, 2013) Speech language Disorders in Children, Educational lecture for parents and school teachers at Al-Istiqlal Elementary School, ArRamtha/Jordan.

- (Nov.13, 2014): Participated in the Faculty of Applied Medical Sciences free medical day that included providing voluntary speech, language and hearing screening services for students and the local community (Jumanah bent Abi Taleb Secondary School): ArRamtha/Jordan.
- (May, 13, 2015): Participated in the Faculty of Applied Medical Sciences free medical day that included providing voluntary speech, language and hearing screening services for students and the local community (Al-Mazar Secondary School) Al-Mazar village/Irbid/Jordan.
- (April-May, 2018): Principles of aural rehabilitation for children with cochlear implant. Educational lectures and counseling for parents in collaboration with the Division of Otorhinolaryngology (KAUH) and the Society of Parents and Caregivers of Children with Cochlear Implant, Irbid, Jordan.
- (December, 2019): Principles and Application of Auditory Verbal Therapy for Children with Cochlear Implant. Two days (10 hours) training workshop for speech language pathologists and audiologists of Royal Medical Services in collaboration with the Crown Prince Initiative (Hearing without Borders), Med EL Corporation, and Cochlear Implant and Hearing Solutions Centre, King Abdullah Univ. Hosp.
- (September, 2020): Principles and Application of Auditory Verbal Therapy for Children with Cochlear Implant. Two days (14 hours) training workshop for speech language pathologists and audiologists of Royal Medical Services in collaboration with the Crown Prince Initiative (Hearing without Borders), Med EL Corporation, and Cochlear Implant and Hearing Solutions Centre, King Abdullah Univ. Hosp.

#### **TRAINING COURSES AND WORKSHOPS:**

- (June, 10 – 11, 2012): "Statistical Package for Social Sciences": Training Course at the Academic Development Center at Jordan University of Science and Technology.
- (Jun.20 – 21, 2012): " Advanced Applications in University Testing and Evaluation": Workshop at the Academic Development Center at Jordan University of Science and Technology.
- (April, 20, 2015) Aural Rehabilitation and Cochlear Implants workshop. University of Jordan in collaboration with Cochlear® Corporation, Australia.
- Spring, 2009. Clinical Practicum in Speech-Language Pathology. Silverstein Luper Hearing & Speech Center, University Tennessee-Health Science Center, Knoxville, TN, USA.

#### **Computer and Technology Skills**

- Proficiency with using PRAAT software (Boersma & Weenink) for acoustic analysis of speech.
- Proficiency with using Computerized Speech Lab (CSL) (Pentax Medical) for acoustic analysis of speech.
- Proficiency with using Nasometer II 6400 (Pentax Medical) for measurement of nasalance.
- Proficiency with using PERCI-SAR (Microtronics, Corp) for aerodynamic analysis of speech.
- Proficiency with using SPSS package for statistical analysis.
- Mendeley.
- Microsoft Office.

**LANGUAGE SKILLS:**

- Arabic: Native language
- English: proficiency with speaking and writing.

**PROFESSIONAL WEBSITES/ACCOUNTS LINKS**

- Official Personal Webpage (at Jordan University of Science & Technology):  
<http://www.just.edu.jo/eportfolio/pages/default.aspx?email=fakhwaileh>
- Google Scholar:  
[https://scholar.google.com/citations?hl=en&user=j\\_6drsQAAAAJ&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=j_6drsQAAAAJ&view_op=list_works)
- Research Gate:  
[https://www.researchgate.net/profile/Fadwa\\_Khwaileh2](https://www.researchgate.net/profile/Fadwa_Khwaileh2)
- ORCID:  
<HTTPS://ORCID.ORG/0000-0003-1671-2590>

**LIST OF THREE REFERENCES**

<p><b>1-Peter Flipsen Jr., Ph.D</b> Professor School of Communication Sciences and Disorders, Pacific University, 2043 College Way Forest Grove Oregon 97116, USA, Phone:503-352-1455 <a href="mailto:flipsen@pacificu.edu">flipsen@pacificu.edu</a></p>	<p><b>2-Tim Saltuklaroglu, Ph.D</b> Professor Department of Audiology and Speech Pathology University of Tennessee-Health Science Center 553 S. Stadium Hall Knoxville, TN 37996 Phone: (865) 974-0355 Email: <a href="mailto:tsaltukl@uthsc.edu">tsaltukl@uthsc.edu</a></p>
<p><b>3-Mary L. (Molly) Erickson, Ph.D</b> Associate Professor Department of Audiology and Speech Pathology University of Tennessee-Health Science Center 427-1 S. Stadium Hall, Knoxville, TN 37996 Phone: (865) 974-9895 Email: <a href="mailto:merickso@uthsc.edu">merickso@uthsc.edu</a></p>	