

EDUCATION

- August 2025 **Ph.D. in Speech and Hearing Science**
Concentration: Auditory and Language Neuroscience
Arizona State University, Tempe, Arizona, United States
Dissertation: *Exploring the Influence of Neural Health on the Efficacy of Electrical Field Shaping Techniques in Cochlear Implant Recipients*
GPA: 4.00
- May 2019 **M.Sc. in Audiology and Speech Disorders**
Marmara University, Istanbul, Turkey
Thesis: *Comparison of Spectral Resolution Test Batteries in Normal Hearing Listeners and Cochlear Implant Users*
GPA: 4.00, High Honors Student
- June 2017 **B.Sc. in Audiology**
Bezmialem Vakif University, Istanbul, Turkey
Thesis: *Comparison of Click, Tonebursts, and Chirp-Stimulated c-VEMP and o-VEMP Responses in Healthy Individuals*
GPA: 3.79

WORK EXPERIENCE

- August 2025 – Present **Assistant Professor (Tenure-Track)**, Department of Speech Pathology and Audiology, University of South Alabama, Mobile, Alabama, United States
- August 2020 – May 2024 **Graduate Teaching Associate**, College of Health Solutions, Arizona State University, Tempe, Arizona, United States
- August 2020 – May 2024 **Graduate Research Associate**, Auditory Implant Lab, Arizona State University, Tempe, Arizona, United States
- Sept. 2017 – May 2019 **Audiologist**, Auditory Training Department, Ikem Isik Education and Rehabilitation Center, Istanbul, Turkey
- July 2016 – Sept. 2016 **Intern**, Audiology Clinic, Department of Neuroscience, University of Padua, Padua, Italy

PUBLICATIONS

Peer-Reviewed Journal Publications

Bal, N., Hüsam, H., Aydın, Z., Demirci, B., **Arslan, N. O.**, & Gedik, Ö. (2025). [Comparison of the cVEMP and oVEMP Responses with Different Stimuli in Healthy Individuals](#). *Clinical and Experimental Health Sciences*, 15(1), 42-49.

Arslan, N. O., & Luo, X. (2024). [Effects of pulse shape on pitch sensitivity of cochlear implant users](#). *Hearing Research*, 450, 109075.

Arslan, N. O., & Luo, X. (2022). [Assessing the relationship between pitch perception and neural health in cochlear implant users](#). *Journal of the Association for Research in Otolaryngology*, 23(6), 875–887.

Arslan, N. O., Akbulut, A. A., Köse, B., Karaman-Demirel, A., & Derinsu, U. (2022). [Sound quality perception of cochlear implant recipients: low-frequency information and foreign-language effect](#). *International Journal of Audiology*, 61(12), 1045–1053.

Non-Peer-Reviewed Articles

Arslan, N. O. (2023, January 23). [Cochlear implants can bring the experience of sound to those with hearing loss, but results may vary – here's why](#). *The Conversation*.

Manuscripts in Preparation

Arslan, N. O., Vecellio, A., & Luo, X. Music remixing preferences of prelingual and postlingual cochlear implant users.

Arslan, N. O., & Luo, X. Effect of neural health on the benefits of current focusing for place-pitch sensitivity in cochlear implant recipients.

PRESENTATIONS

Oral Presentations

Arslan, N. O., & Luo, X. (2025). Unraveling Auditory Nerve Condition: Key to Cochlear Implant Efficacy [Invited presentation].

Talk presented at the *Conference on Implantable Auditory Prostheses 2025* in Lake Tahoe, California, United States.

Arslan, N. O., & Luo, X. (2022). Neural health measures are correlated with place-pitch sensitivity of cochlear implant users.

Talk presented at the *Association for Research in Otolaryngology 45th Annual Midwinter Virtual Meeting*.

Arslan, N. O., & Ciprut, A. (2019). Comparison of spectral resolution test batteries in normal hearing listeners and cochlear implant users.

Talk presented at the *Marmara University Audiology Alumni Meeting* in Istanbul, Turkey.

Arslan, N. O., Bal, N., Gedik, O., Aydın, Z., & Demirci, B. (2018). Comparison of click, tonebursts, and chirp-stimulated c-VEMP and o-VEMP responses in healthy individuals.
Talk presented at the *2018 Turkey National Audiology Congress* in Istanbul, Turkey.

Poster Presentations

Arslan, N. O., & Luo, X. (2025). Can Neural Health Estimates Explain the Variability in Place-Pitch Sensitivity Improvement from Current Focusing Among Cochlear Implant Users?
Poster presented at the *Conference on Implantable Auditory Prostheses 2025* in Lake Tahoe, California, United States.

Arslan, N. O., & Luo, X. (2025). Current Focusing Enhances Cochlear Implant Users' Virtual Channel Ranking Performance.
Poster presented at the *52nd Annual Scientific and Technology Conference of the American Auditory Society* in Scottsdale, Arizona, United States.

Arslan, N. O., Vecellio, A., & Luo, X. (2024). Hearing history may influence the benefit from remixing music in electrical hearing.
Poster presented at the *51st Annual Scientific and Technology Conference of the American Auditory Society* in Scottsdale, Arizona, United States.

Arslan, N. O., & Luo, X. (2023). The effect of pulse shape on pitch sensitivity of cochlear implant users.
Poster presented at the *Conference on Implantable Auditory Prostheses 2023* in Lake Tahoe, California, United States.

Arslan, N. O., & Luo, X. (2023). Anodic-centered triphasic pulses may improve pitch perception in cochlear implant users.
Poster presented at the *2023 Arizona State University Institute for Social Science Research Graduate Student Poster Contest* in Tempe, Arizona, United States.

Arslan, N. O., & Luo, X. (2022). Neural health measures are correlated with place pitch sensitivity of cochlear implant users.
Poster presented at the *2022 Arizona State University Institute for Social Science Research Graduate Student Poster Contest* in Tempe, Arizona, United States.

TEACHING EXPERIENCE

Course Instructor

Fall 2025 SLP 510/AUD 616: Introduction to Research Design

Teaching Assistantships

Spring 2024 SHS 555: Cochlear Implants

Fall 2023 SHS 311: Hearing Science
 SHS 375: Speech Science
 SHS 401: Principles of Audiology

Spring 2023	SHS 555: Cochlear Implants
Fall 2022	SHS 401: Principles of Audiology SHS 310: Anatomical and Physiological Bases of Speech
Spring 2022	SHS 205: Exploring Communication Disorders in Children and Adults SHS 311: Hearing Science SHS 401: Principles of Audiology
Fall 2021	SHS 311: Hearing Science SHS 375: Speech Science SHS 310: Anatomical and Physiological Bases of Speech
Spring 2021	SHS 485: Acquired Speech and Language Disorders
Fall 2020	SHS 310: Anatomical and Physiological Bases of Speech SHS 401: Principles of Audiology

Guest Lectures

Spring 2023	<i>Topic: Speech Coding Strategies</i> SHS 555: Cochlear Implants
Fall 2022	<i>Topic: Ototoxicity and Pharmacology</i> SHS 520: Auditory Pathologies/Disorders and Otoneurologic Applications

AWARDS, FELLOWSHIPS, GRANTS

2025	Graduate Student Poster Award issued by the College of Health Solutions, Arizona State University
2025	Graduate College Travel Award issued by the Graduate College, Arizona State University
2024	Completion Fellowship issued by the Graduate College, Arizona State University
2024	Ph.D. Scholarship issued by the Council of Academic Programs in Communication Sciences and Disorders
2024	Graduate Student Travel Award issued by the College of Health Solutions, Arizona State University
2023	CIAP2023 Student Aid Award issued by the Conference on Implantable Auditory Prostheses

2023	Graduate College Travel Award issued by the Graduate College, Arizona State University
2023	Graduate Student Travel Award issued by the College of Health Solutions, Arizona State University
2023	Travel Grant issued by the Graduate and Professional Student Association, Arizona State University
2022	The New Century Scholars Doctoral Scholarship issued by the American Speech-Language-Hearing Foundation
2022	The Outstanding Speech and Hearing Ph.D. Student in Research Award and Scholarship issued by the College of Health Solutions, Arizona State University
2022	Honorable Mention in the Completed Category, Graduate Student Poster Competition issued by the Institute for Social Science Research, Arizona State University
2022	ARO Midwinter Meeting Travel Award issued by the Association for Research in Otolaryngology
2017 – 2019	Research Grant, Marmara University , “Assessment of sound quality perception in native-Turkish speaking adult cochlear implant users through TR-MUSHRA.”
2016	Erasmus+ Traineeships issued by the European Commission
2015 – 2017	Academic Achievement Scholarship issued by Bezmialem Vakif University

SERVICE

2023 – 2024	Ph.D. Student Representative , Speech and Hearing Science Ph.D. Committee, Arizona State University
2023	Student Volunteer , Conference on Implantable Auditory Prostheses 2023
2023	Ad-Hoc Reviewer , <i>Frontiers in Neuroscience</i>
2022	Promoting Volunteer , Arizona Walk4Hearing Event, Hearing Loss Association of America

TECHNICAL SKILLS

Web Development

Languages: PHP, Python, Java
Web Technologies: HTML, CSS

Data Analysis**Languages:** R, Python, MATLAB**Tools:** SPSS**Signal Processing and Analysis****Languages:** MATLAB, Python**Tools:** Bionic Ear Data Collection System (BEDCS), Praat, Audacity, Adobe Audition