

CURRICULUM VITAE

Yasmeen Hamza, Ph.D., MD

PhD Experimental Otolaryngology-Neuroscience, Audiologist

CONTACT INFORMATION:

20 Via Lucca, Apt D205

dr.yasmeen.hamza@gmail.com; yhamza@hs.uci.edu

Irvine, California, 92612

+1(949)686-8605

EDUCATION AND TRAINING:

- 2019- **Postdoctoral Scholar**
Otolaryngology Department, School of Medicine, University of California Irvine
Hearing and Speech Lab
Projects: Tinnitus and cognition; Auditory processing deficits and cognitive decline;
Electrical Auditory Brainstem Response and Cognition
- 2019 **Postdoctoral Associate**
Department of Biomedical Engineering, University of Rochester
Carney's Lab
Project: Representations of speech sounds in sub-cortical models
- 2018 **Doctor of Philosophy (Ph.D.)**
Neuroscience Department, School of Biomedical Sciences, Faculty of Medicine,
KU Leuven
Experimental otorhinolaryngology research group
Dissertation Title: Speech processing cues in children with cochlear implants
- 2013 **Master's degree in Audiology- Otorhinolaryngology***
Department of Otorhinolaryngology, Faculty of Medicine- Alexandria University
Audiology Unit- Alexandria University Hospitals
Dissertation Title: Validation of screening outcome for auditory processing
performance in primary school children, Alexandria, Egypt
- 2011 **Professional Postgraduate Diploma in Total Quality Management for
Healthcare Reform**
American University in Cairo (AUC)
- 2010-2011 **Trainee Resident Audiologist**
Department of Otorhinolaryngology, Faculty of Medicine- Alexandria University
Audiology Unit- Alexandria University Hospitals
- 2009-2010 **Medical Intern**
Alexandria Main University Hospital, Egypt
General surgery, Internal Medicine, Pediatrics, Gynecology and Obstetrics,
Anesthesia, Emergency Medicine, Clinical Pathology, Physiotherapy
- 2008 **Bachelor's degree in Medicine and Surgery (MBBCH)***
Faculty of Medicine – Alexandria University

* Considered comparable to the British degree level standard according to UK NARIC.

PROFESSIONAL LICENSE, CERTIFICATION AND MEMBERSHIPS:

- 2021- Member of the American Association for the Advancement of Science (AAAS).
- 2019- Postdoc Member of the Association for Research in Otolaryngology (ARO)
- 2019- Member of the Young Otolaryngologists of the International Federation of Oto-rhino-laryngological Societies (YO-IFOS)
- 2017 Student Member of the American Cochlear Implant Alliance
- 2017 Student Member of B-Audio, Royal Belgian Scientific Society for ENT-ORL
- 2016- Member of the Marie Curie Alumni Association (MCAA)
- 2014- Registered Audiology Specialist, Egyptian Medical Syndicate (#963)
- 2014- Registered Quality Specialist, Egyptian Medical Syndicate (#986)
- 2011- Auditory Integration Training Practitioner, Kirby Auditory Integration Training Center, North Carolina
- 2011 International Associate Member of the American Academy of Audiology (AAA)
- 2010- Registered General Practitioner, Egyptian Medical Syndicate (#211687)
- 2010- License to practice Medicine, Egyptian Ministry of Health (#214687/09-03-2010)

FELLOWSHIPS AND AWARDS:

- 2021 ARO Travel Award for the 2022 MidWinter Meeting (Virtual Award-500 USD)
- 2020 Research Award for 2018 Publications by the University of Macedonia (400 Euros)
- 2017 Awarded Student Membership of the American Cochlear Implant Alliance
- 2017 Micro General Assembly Travel Grant by Marie Curie Alumni Association (500 Euros)
- 2014-2017 Marie Curie Fellowship (iCARE-FP7-607139)- People Programme of the European Union's Seventh Framework (108,072.00 Euros)
- 2011 Conference Registration Scholarship- Academy Research Conference: Hearing Aids and the Brain by the American Academy of Audiology
- 2011 Conference Registration Scholarship -Central Auditory Processing Disorder Global Conference - Clinical Populations with CAPD: What We Know and What Lie Ahead by the American Academy of Audiology

RESEARCH EXPERIENCE:

- 2019- **Hearing and Speech Lab, University of California Irvine, Irvine CA, USA**
PI: Fan-Gang Zeng
Collaborators: UCI MIND Institute for Aging
 - The association of tinnitus and cognition in the elderly
 - Auditory processing deficits, speech communication, and cognitive decline in the elderly, and special populations

- 2019 **Carney's Lab, University of Rochester, Rochester, NY, USA**
 PI: Laurel Carney
 Collaborators: University of Rochester-Linguistics Department: Joyce McDonough
- Representations of speech sounds using sub-cortical models and the association with perceptual confusions
- 2018 **Cochlear BENELUX Ltd, Mechelen, Belgium**
 PI: Filiep Vanpoucke
 Collaborators: Radboud University Medical Center: Ad Snik
- Expansion of cochlear implants candidacy
 - Speech test inventory
- 2014-2018 **Experimental ORL Research Group, KU Leuven, Belgium**
 PI: Astrid van Wieringen
 Collaborators: University Hospital Leuven, Belgium; Ann Dierckx, University of Macedonia; Areti Okalidou and AHEPA University Hospital, Thessaloniki, Greece; George Kyriafinis
- Sonority's effect as a surface cue on lexical speech perception of children with cochlear implants
 - Novel word learning ability of children with cochlear implants with optimal oral language exposure
- 2010-2013 **Alexandria University Hospital Audiology Unit, Alexandria, Egypt**
 PI: Mona Mourad
 Collaborators: Alexandria University Hospital Phoniatics Unit: Manal El-Banna; Alexandria University Higher Institute of Medicine- Biostatistics Department: Mona Hassan; Early Intervention Center-Faculty of Kindergarten, Alexandria Egypt: Faten Abdellatif; Alexandria Petroleum Hospital: Samir Asal
- Auditory processing performance in primary school children- screening outcome validation
 - Auditory integration training implementation and initial outcomes
 - Occular VEMP and Aging

CLINICAL EXPERIENCE:

2010-2015 **Audiologist, Alexandria, Egypt**

Gamal Abdel Nasser and Talaba Pediatric Health Insurance Hospitals; Alexandria Ear Hospital; Ear, Nose & Throat Smouha Specialized Center- Alexandria New Medical Center; Elthager Hospital; Elibrahmia Hearing and Balance Center

- Basic audiological assessment for both pediatrics and adults including those with multiple disabilities. Assessments included tympanometry, audiometry (play, pure tone and speech), evoked potential diagnostics (distortion product

otoacoustic emissions, auditory brainstem responses) with subsequent diagnosis of the patient's audiological profile.

- Management of hearing impairment including amplification prescription, validation, assistance in the selection of patients requiring cochlear implantation, intra operative monitoring and postoperative programming.
- Assessments of auditory processing disorders.
- Adult vestibular assessments, including videonystagmography for caloric, oculomotor and positional testing, Dix-Hallpike maneuver.
- Creation and application of a vestibular rehabilitation program.
- Collaboration within interdisciplinary teams: Otolaryngology and Language and Speech Services for the hearing impaired.

2011-2014 **Auditory Integration Training Practitioner**

Early Intervention Center- Faculty of Kindergarten, Alexandria University

- Audiological and psychological assessment of children with autism, learning disabilities, and auditory processing disorders
- Selection of candidates
- Individualizing and running sessions
- Follow up and counselling for up to 3 months

2010 **General Practitioner**

Ministry of Health Bureau, Alexandria, Egypt.

- Examination, diagnosis and treatment of children in primary healthcare pediatrics clinic under supervision

TEACHING AND MENTORSHIP EXPERIENCE

2021- **Mentor** for STEM Champions for Change; mentorship for community college students from groups traditionally underrepresented in STEM

2019- **Mentoring** Phd and undergraduate students on collaborative projects, University of Rochester, University of California Irvine

2016-2018 **Co-Promoter** for two Master students in Speech Pathology and Audiology program, KU Leuven

2015-2017 **Invited Guest Lecture** for Speech Language Pathology Master Program, University of Macedonia

Auditory processing disorders – 2 x 3 hours lecture for approximately 15-20 postgraduate students. Core Course

2017 **Formal Training** of three Master students, University of Macedonia
E-Prime- 4 x 2 hour sessions

2017 **Formal Training** of one PhD student, University of Macedonia
E-Prime- 3 hour session

- 2015-2017 **Training** and assisting in building and troubleshooting the experiment of one PhD student, University of Macedonia
E-prime, and Sony Sound Forge
- 2016 **Reviewing** and editing a peer PhD's thesis and internationally submitted article paper, University of Macedonia

PUBLICATIONS:

1. **Hamza, Y., & Zeng, F. G.** (2021). Tinnitus Is Associated With Improved Cognitive Performance in Non-hispanic Elderly With Hearing Loss. *Frontiers in Neuroscience, 15*.
2. **Hamza Y., Farhadi A, Schwarz D, McDonough J, Carney LH** (In Preparation). Representations of Fricatives in Sub-Cortical Model Responses: Comparisons with Human Perception.
3. **Hamza, Y., Okalidou, A., Dierckx, A., & van Wieringen, A.** (2020). Sonority-Related Novel Word Learning Ability of Children With Cochlear Implants With Optimal Oral Language Exposure. *Ear Hear, 2020 Nov/Dec;41(6):1715-1731*. doi: 10.1097/AUD.0000000000000893. PMID: 33136645.
4. **Hamza, Y., Okalidou, A., Kyriafinis, G., van Wieringen, A.** (2018). Sonority's Effect as a Surface Cue on Lexical Speech Perception of Children with Cochlear Implants. *Ear Hear, 39(5), 992-1007*. doi: 10.1097/aud.0000000000000559
5. **Hamza, Y., Okalidou, A., & van Wieringen, A.** (2016). *Sonority's Effect as a Surface Cue on lexical Speech Perception in Children with Cochlear Implants vs Normal Hearing in the Greek Language (Pilot Study)*. Paper presented at the DAGA, Aachen, Germany.
6. Mourad, M, Hassan, M, El-Banna, M, Asal, S, & **Hamza, Y.** (2015). *Screening for Auditory Processing Performance in Primary School Children*. *J Am Acad Audiol, 26(4), 355-369*. doi: 10.3766/jaaa.26.4.4

CONFERENCE ABSTRACTS

* indicates speaker(s)

1. **Hamza Y***, Zeng FG (2022, February). The Role of Tinnitus in Hearing Loss- Induced Cognitive Decline. ARO Midwinter Meeting. San Jose, CA, USA.
2. **Hamza Y***, Zeng FG (2020, February). Tinnitus and Cognition in the Elderly. UCI MIND 11th Annual Emerging Scientists Symposium. Irvine, CA, USA.
3. **Hamza Y***, Farhadi A, Schwarz D, McDonough J, Carney LH (2020, January). Can Auditory-Nerve and Inferior Colliculus Models Explain Perceptual Confusions for Fricatives? Association for Research in Otolaryngology 43rd Midwinter meeting. San Jose, CA, USA.
4. **Hamza Y***, Okalidou A, Kyriafinis G, van Wieringen A (2017, November). Sonority's Effect as a Surface Cue on lexical Speech Perception of Children with Cochlear Implants. iCARE Conference. Leuven, Belgium.

5. **Hamza Y***, Okalidou A, Kyriafinis G, van Wieringen A (2017, June). Sonority's Effect as a Surface Cue on Lexical Speech Perception of Children with Cochlear Implants. IFOS Conference. Paris, France.
6. **Hamza Y***, Okalidou A, Kyriafinis G, van Wieringen A (2017, March). Sonority's Effect as a Surface Cue on Lexical Speech Perception of Children with Cochlear Implants. MCAA General Assembly. Salamanca, Spain.
7. **Hamza Y***, Okalidou A, van Wieringen A (2016, June). Sonority's Role in Lexical Perception of Children with Cochlear Implants vs. Normal-Hearing Children and Adults in Greek. HEaring Across Lifespan (HEAL). Lake Como, Italy.
8. **Hamza Y***, Okalidou A, van Wieringen A (2016, March). Sonority's Effect as a Surface Cue on lexical Speech Perception in Children with Cochlear Implants vs. Normal Hearing in the Greek Language (Pilot Study). The 42nd Conference on Acoustics DAGA 2016. Aachen, Germany.
9. Mourad M, **Hamza Y*** (2014, March). Screening for Central Auditory Processing Performance in Primary School Children. CAPD Conference; What we know and what lies ahead, American Academy of Audiology. Florida, USA.
10. Mourad M*, **Hamza Y*** (2014, March). Screening for Central Auditory Processing Performance in Primary School Children” in the Audiology Now Conference of the American Academy of Audiology. Florida, USA.
11. Mourad M*, **Hamza Y*** (2014, March). Screening for Central Auditory Processing Performance in Primary School Children. Academy Research Conference “Hearing Aids and the Brain” of the American Academy of Audiology. Florida, USA.
12. Samir Asal*, **Hamza Y** (2014, March). Effect of age on ocular VEMP using air conducted sound. The Audiology Now Conference of the American Academy of Audiology. Florida, USA.

OTHER TALKS:

13. **Hamza Y*** (2018, September). Lexical Access of Children with Cochlear Implants; Sonority. University of Rochester-Invited Talk. Rochester, NY, USA.
14. **Hamza Y***, Okalidou A (2017, September). Testing hearing technology outcomes for lexical acquisition in children with cochlear implants. The 82nd Thessaloniki International Fair exhibition. Helexpo, Thessaloniki, Greece.
15. **Hamza Y***, Palmero C* (2017, September). Executive Functions. iCARE Webinars
16. **Hamza Y*** (2017, June). Emerging communication. iCARE Webinars
17. **Hamza Y*** (2017, April). Introduction to psychoacoustics. iCARE Webinars
18. **Hamza Y***, Okalidou A, van Wieringen A (2017, March). Role of Phonetic Cues in Speech Perception & Lexical Access of Children with Cochlear Implants- An Overview. The 3rd iCARE winter school. Linköping, Sweden.

19. **Hamza Y***, Okalidou A, van Wieringen A (2016, December). Sonority's Effect as a Surface Cue on lexical Speech Perception in Children with Cochlear Implants (Greek Language). iCARE webinar 1 series II.
20. **Hamza Y***, Okalidou A, van Wieringen A (2016, November). Sonority's Effect as a Surface Cue on lexical Speech Perception in Children with Cochlear Implants. KU Leuven Research Seminars, Leuven, Belgium.
21. **Hamza Y***, Okalidou A (2016, March). Listen Wise; this is why! The World Hearing Day 2016 awareness and screening event, University of Macedonia. Thessaloniki, Greece.
22. **Hamza Y***, Okalidou A, van Wieringen A (2015, June). Sonority's Role as a Speech Surface Cue in Cochlear Implanted Children. iCARE webinar 3- Work Package 1: Communication Accessibility.
23. **Hamza Y***, Okalidou A, van Wieringen A (2015, February). Acoustic Cues Used in Speech Perception of Cochlear Implanted Children. The First iCARE winter school, University of Macedonia. Thessaloniki, Greece.

LEADERSHIP AND SERVICE ACTIVITIES

- | | |
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| 2020 | Co-Author , Egyptian Guidelines of Audiological Best Practices, Ministry of Health, Egypt |
| 2020- | Associate Faculty Member , Faculty Opinions |
| 2019- | Ad-hoc Reviewer , Hearing Research, Ear and Hearing |
| 2017 | Co-organizer, Panelist, and Speaker , iCARE Conference, Leuven, Belgium. |
| 2017 | Speaker, Public Awareness Talk , 82nd Thessaloniki International Fair exhibition |
| 2016 | Co-Organizer, Speaker and Hearing Screening , Day Conference at UOM for World Hearing Day "Childhood hearing loss: act now, here is how!" |
| 2015 | Moderator , iCARE Webinar No 4 -WP 1&3: Communication Accessibility. |
| 2015 | Co-organizer and Media Coverage , First University of Macedonia Winter School. |
| 2015 | Secondment , Parents Deaf Association of Central Macedonia, Thessaloniki, Greece |

ADDITIONAL PROFESSIONAL TRAINING

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| 2019- | Center for Hearing Research Journal Club , University of California Irvine |
| 2019 | Grant Writing Series , University of Rochester |
| 2019 | Matlab BME Graduate Lectures , University of Rochester |
| 2019 | Speech on the Brain BME Graduate Lectures , University of Rochester |
| 2017 | iCARE E-learning Modules , iCARE |
| 2017 | Secondment , Cochlear Technology Center |

- 2017 **Statistics Seminars**, University of Macedonia
- 2016-2018 **HEAD Seminars**, University of Linkoping
- 2016 **Individual Training on cochlear implants** products, technologies, sound coding algorithms, and mapping procedures, Cochlear Technology Center
- 2015-2018 **Experimental ORL Journal Club**, KU Leuven
- 2015-2018 **Experimental ORL Scientific Discussion**, KU Leuven
- 2015-2018 **Holy Hour Seminars**, KU Leuven
- 2015-2018 **Research Seminars**, KU Leuven
- 2015-2016 **iCARE Research Fellow Webinars**, iCARE
- 2015-2016 **Cochlear Implant Clinic**, AHEPA Hospital, University of Aristotle
- 2015-2016 **English Phonetics and Phonology Course**, University of Aristotle
- 2014 **Preparatory course for Medical Doctorate program**, University of Alexandria
- 2014 **Academic Integrity: Values, Skills, Action**, University of Auckland
- 2014 **Data to Insight**, University of Auckland

REFERENCES

Fan-Gang Zeng, Professor and Director of the Center for Hearing Research, University of California Irvine
Email: fzeng@hs.uci.edu
Phone: 949-8241539

Astrid van Wieringen, Chair of Speech Pathology and Audiological Sciences, Experimental Oto-rhino-laryngology, Neuroscience Department, School of Biomedical Sciences, Faculty of Medicine, KU Leuven, Belgium.
Email: astrid.vanwieringen@med.kuleuven.be
Phone: +32 16 33 04 78

Filiep Vanpoucke, Vice President of Algorithms and Applications, Advanced Innovation Cochlear Technology Centre Belgium
Email: fvanpoucke@cochlear.com
Phone: +3215795638