

# **Kelly N. Jahn, Au.D., Ph.D.**

Assistant Professor

Department of Speech, Language, and Hearing

School of Behavioral and Brain Sciences

University of Texas at Dallas

1966 Inwood Road, Dallas, TX 75235

kelly.jahn@utdallas.edu

## **EDUCATION**

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<b>Ph.D., Speech and Hearing Sciences</b> University of Washington, Seattle, WA	2019
<b>Au.D., Audiology</b> Vanderbilt University School of Medicine, Nashville, TN	2016
<b>B.A., Communication Sciences</b> <b>B.S., Psychology</b> Minors, Neuroscience and Cognitive Science University of Connecticut, Storrs, CT	2012

## **CERTIFICATION/LICENSURE**

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<b>Audiologist License</b> State of Texas (License #81471)	2022 – Present
Commonwealth of Massachusetts (License #4754-SP-AU)	2019 – Present
<b>Certificate of Clinical Competence in Audiology (CCC-A)</b> American Speech-Language-Hearing Association (ASHA)	2016 – Present

## **EMPLOYMENT AND PROFESSIONAL EXPERIENCE**

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<b>Assistant Professor</b> School of Behavioral and Brain Sciences Department of Speech, Language, and Hearing University of Texas at Dallas, Richardson, TX	2022 – Present
<b>Instructor / Investigator</b> Department of Otolaryngology – Head and Neck Surgery Massachusetts Eye and Ear / Harvard Medical School, Boston, MA	2021
<b>Postdoctoral Research Fellow</b> Lauer Tinnitus Research Center (PI: Daniel Polley) Department of Otolaryngology – Head and Neck Surgery Massachusetts Eye and Ear / Harvard Medical School, Boston, MA	2019 – 2021

<b>Predoctoral Research Associate</b>	2016 – 2019
Cochlear Implant Psychophysics Laboratory (PI: Julie Arenberg) Department of Speech and Hearing Sciences University of Washington, Seattle, WA	
<b>Audiology Clinical Extern</b>	2015 – 2016
Vanderbilt Bill Wilkerson Center, Nashville, TN	
<b>Audiology Trainee</b>	2014 – 2015
Tennessee Valley Veteran's Administration, Nashville/Murfreesboro, TN	
<b>Newborn Hearing Screener</b>	2014 – 2015
Monroe Carell Jr. Children's Hospital, Nashville, TN	
<b>Graduate Research Assistant</b>	2012 – 2015
Multisensory Processing Laboratory (PI: Mark Wallace) Cochlear Implant Research Laboratory (PI: Rene Gifford) Department of Hearing and Speech Sciences Vanderbilt University, Nashville, TN	
<b>Undergraduate Research Assistant</b>	2010 – 2012
Hearing Conservation Research Laboratory (PI: Jennifer Tufts) Department of Communication Sciences University of Connecticut, Storrs, CT	

## **PROFESSIONAL AFFILIATION**

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Fellow Member, Texas Academy of Audiology (TAA)	2022 – Present
Member, Association for Research in Otolaryngology (ARO)	2018 – Present
Member, American Speech-Language-Hearing Association (ASHA)	2016 – Present
Member, American Auditory Society (AAS)	2013 – Present
Fellow, American Academy of Audiology (AAA)	2016 – 2019

## **PUBLICATIONS**

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*Refereed Journal Articles* ( \_\_\* indicates mentored student)

- 1) Smalt, C.J., Sugai, J.A., Koops, E.K., **Jahn, K.N.**, Hancock, K.E., Polley, D.B. (2022). Automatic identification of tinnitus malingering based on overt and covert behavioral responses during psychoacoustic testing, *npj Digital Medicine*, 5(1), 127.
- 2) **Jahn, K.N.** (2022). Clinical and investigational tools for monitoring noise-induced hyperacusis. *Journal of the Acoustical Society of America*, 152(1), 553-566.

- 3) **Jahn, K.N.**, Hancock, K.E., Maison, S.F., Polley, D.B. (2022). Estimated cochlear neural degeneration is associated with loudness hypersensitivity in individuals with normal audiograms. *Journal of the Acoustical Society of America Express Letters*, 2(6), 1-8.
- 4) Arjmandi, M.K., **Jahn, K.N.**, Arenberg, J.G. (2022). Single-channel focused thresholds relate to vowel identification in pediatric and adult cochlear implant listeners. *Trends in Hearing*, 26.
- 5) **Jahn, K.N.**, Arenberg, J.G., Horn, D.L. (2022). Spectral resolution development in children with normal hearing and with cochlear implants: A review of behavioral studies. *Journal of Speech, Language, and Hearing Research*, 65(4), 1646-1658.
- 6) Caswell-Midwinter, B., Doney, E.M., Arjmandi, M.K., **Jahn, K.N.**, Herrmann, B.S., Arenberg, J.G. (2022). The relationship between impedance, programming and word recognition in a large clinical dataset of cochlear implant recipients. *Trends in Hearing*, 26.
- 7) **Jahn, K.N.**, DeVries, L.A., Arenberg, J.G. (2021). Recovery from forward masking in cochlear implant listeners: Effects of age and the electrode-neuron interface. *Journal of the Acoustical Society of America*, 149(3), 1633-1643.
- 8) Lewis, R.M. <sup>+</sup>, **Jahn, K.N.** <sup>+</sup>, Parthasarathy, A., Goedicke, W., Polley, D.B. (2020). Audiometric predictors of bothersome tinnitus in a large clinical cohort of adults with sensorineural hearing loss, *Otology & Neurotology*, 41(4), e414-e421.  
<sup>+</sup>Equal contribution as co-first authors
- 9) **Jahn, K.N.**, Arenberg, J.G. (2020). Electrophysiological estimates of the electrode-neuron interface differ between younger and older listeners with cochlear implants, *Ear and Hearing*, 41(4), 948-960.
- 10) **Jahn, K.N.**, Arenberg, J.G. (2020). Identifying cochlear implant channels with relatively poor electrode-neuron interfaces using the electrically evoked compound action potential, *Ear and Hearing*, 41(4), 961-973.
- 11) **Jahn, K.N.**, Bergan, M.D.\*, Arenberg, J.G. (2020). Auditory detection thresholds and cochlear resistivity differ between pediatric cochlear implant listeners with enlarged vestibular aqueduct and those with connexin-26 mutations, *American Journal of Audiology*, 29(1), 23-34.
- 12) **Jahn, K.N.**, Arenberg, J.G. (2019). Polarity sensitivity in pediatric and adult cochlear implant listeners, *Trends in Hearing*, 23.
- 13) **Jahn, K.N.**, Arenberg, J.G. (2019). Evaluating psychophysical polarity sensitivity as an indirect estimate of neural status in cochlear implant listeners. *Journal of the Association for Research in Otolaryngology*, 4(20), 415-430.  
  - a. **JARO Most Cited Publication (3 Years)**
- 14) DiNino, M., O'Brien, G., Bierer, S.M., **Jahn, K.N.**, Arenberg, J.G. (2019). The estimated

electrode-neuron interface in cochlear implant listeners is different for early-implanted children and late-implanted adults. *Journal of the Association for Research in Otolaryngology*, 20(3), 291-303.

- 15) **Jahn, K.N.**, DiNino, M., Arenberg, J.G. (2019). Reducing simulated channel interaction reveals differences in phoneme identification between children and adults with normal hearing, *Ear and Hearing*, 40(2), 295-311.
- 16) **Jahn, K.N.**, Stevenson, R.A., Wallace, M.T. (2017). Visual temporal acuity is related to auditory speech perception abilities in cochlear implant users, *Ear and Hearing*, 38(2), 236-43.
- 17) Sheffield, S.W., Simha, M., **Jahn, K.N.**, Gifford, R.H. (2016). The effects of acoustic bandwidth on simulated bimodal benefit in children and adults with normal hearing, *Ear and Hearing*, 37(3), 282-8.
- 18) Sheffield, S.W., **Jahn, K.**, Gifford, R.H. (2015). Preserved acoustic hearing in cochlear implantation improves speech perception, *Journal of the American Academy of Audiology*, 26(2), 145-54.
- 19) Tufts, J.B., **Jahn, K.N.**, Byram, J.P. (2013). Consistency of attenuation across multiple fittings of custom and non-custom earplugs, *Annals of Occupational Hygiene*, 57(5), 571-80.

#### *Articles in Conference Proceedings*

- 1) Arenberg, J.G., **Jahn, K.N.**, Hem, C., Arjmandi, M.K. (2022). Psychophysical tuning curves as a measure of spectral resolution in children and adults with cochlear implants. 19<sup>th</sup> *International Symposium on Hearing: Psychoacoustics, Physiology of Hearing, and Auditory Modelling, from the Ear to the Brain (ISH2022)*, Lyon, France. Zenodo. <https://doi.org/10.5281/zenodo.6582175>

#### *Invited Articles*

- 1) **Jahn, K.N.** (2017). Is visual processing related to auditory speech perception in CIs?, *The Hearing Journal*, 70(12), 22-23.

#### **AWARDS AND HONORS**

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- 1) **Second Place Research Poster**, Texas Academy of Audiology Conference 2022
- 2) **Protégé**, ASHA Lessons for Success Grant-Writing Program 2022
- 3) **Research Mentoring-Pair Travel Award**, ASHA 2021
- 4) **New Century Scholars Doctoral Scholarship**, ASHA 2019
- 5) **Student Travel Award**, Association for Research in Otolaryngology (ARO) 2018, 2019
- 6) **Lesley Olswang Graduate Student Travel Award**, U. Washington 2018

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|---|-------------|
| 7) <b>Audiology/Hearing Science Research Travel Award</b> , ASHA  | 2017        |
| 8) <b>Student Travel Award</b> , Conference on Implantable Auditory Prostheses  | 2017        |
| 9) <b>Student Scholarship</b> , American Cochlear Implant Alliance (ACIA)   | 2017        |
| 10) <b>Top Scholar Award</b> , University of Washington   | 2016 – 2017 |
| 11) <b>Third Place in Combined Poster Session</b> , Vanderbilt Bill Wilkerson Center  | 2016        |
| 12) <b>Outstanding Capstone Research Project Award</b> ,<br>Vanderbilt Department of Hearing and Speech Sciences  | 2015        |
| 13) <b>Audiology Scholarship</b><br>Tennessee Association of Audiologists and Speech Pathologists   | 2014        |
| 14) <b>T-35 Trainee Poster Award</b> , American Auditory Society (AAS)  | 2014        |
| 15) <b>Mentored Poster Award</b> , AAS<br>Mentor (2013): René Gifford, Ph.D. (Vanderbilt University)<br>Mentor (2019): Julie Arenberg, Ph.D. (University of Washington) | 2013, 2019  |
| 16) <b>Full Tuition Scholarship</b> , Vanderbilt Bill Wilkerson Center  | 2012 – 2016 |
| 17) <b>Undergraduate Research Travel Award</b> , University of Connecticut  | 2012        |
| 18) <b>Academic Excellence Scholarship</b> , University of Connecticut  | 2008 – 2012 |

## **RESEARCH SUPPORT**

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### *Current Research Support*

#### **1 K01 DC019647-01**

08/01/2021 – 05/31/2024

Title: Neural signatures of enhanced central auditory gain in hyperacusis

Source: NIH National Institute on Deafness and Other Communication Disorders

Direct costs: \$383,952

Total award: \$414,669

Role: Principal Investigator

### *Pending Research Support*

#### **AR220048**

09/23/2023 – 09/22/2026

Title: Biomarkers of hyperacusis in autism spectrum disorder

Source: Department of Defense Congressionally Directed Medical Research Program (Autism Research Program)

Direct costs: \$549,884

Total award: \$847,194

Role: Principal Investigator

*Completed Research Support*

**New Investigators Research Grant** 12/01/2020 – 12/31/2021  
 Title: Physiological markers of sound intolerance in individuals with hyperacusis  
 Source: American Speech-Language-Hearing Foundation  
 Total award: \$10,000  
 Role: Principal Investigator

**T32 DC005361** 09/16/2017 – 06/30/2019  
 Title: Auditory neuroscience training program  
 Source: NIH National Institute on Deafness and Other Communication Disorders  
 Role: Predoctoral Fellow

**T35 DC008763** 05/01/2013 – 06/30/2013  
 Title: Developing research careers in the hearing sciences  
 Source: NIH National Institute on Deafness and Other Communication Disorders  
 Role: Audiology Trainee

*School of Behavioral and Brain Sciences Research and Educational Equipment Grants*

**Advanced Auditory Research Equipment** 2022 – 2023  
 Total award: \$43,564  
 Role: Principal Investigator

**Achieving Competency with Cochlear Implant and Hearing Aid Technology** 2021 – 2022  
 Total award: \$32,355  
 Role: Co-Investigator

**Wideband Immittance Research System** 2021 – 2022  
 Total award: \$23,859.50  
 Role: Co-Investigator

**PRESENTATIONS**

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*Invited Talks*

- 1) **Jahn, K.N.** (2022). “Estimated cochlear neural degeneration is associated with loudness hypersensitivity in individuals with normal audiograms”. Acoustical Society of America Psychological and Physiological Acoustics Virtual Journal Club, Virtual, November 29, 2022.

- 2) **Jahn, K.N.** (2021). “Healthy hearing across the lifespan”. Total Cancer Support Group (based in Connecticut), Virtual, December 21, 2021.
- 3) **Jahn, K.N.** (2021). “Assessment and management of hyperacusis in adults”. Department of Audiology, Massachusetts Eye and Ear, Continuing Education Series, Virtual, May 19, 2021.
- 4) **Jahn, K.N.** (2020). “Age-related differences in the cochlear implant electrode-neuron interface”. Department of Speech, Language, and Hearing Sciences, Purdue University, Virtual Seminar. December 3, 2020.
- 5) **Jahn, K.N.** (2019). “Estimates of spiral ganglion neuron health in children and adults with cochlear implants”. Department of Hearing and Speech Sciences, University of Maryland, College Park, MD. October 30, 2019.
- 6) **Jahn, K.N.** (2018). “Evaluating indirect estimates of spiral ganglion health in cochlear implant listeners”. Eaton-Peabody Laboratories, Massachusetts Eye and Ear, Boston, MA. December 5, 2018.
- 7) **Jahn, K.N.** (2018). “Vowel error patterns in children and adults with cochlear implants”. 176<sup>th</sup> Meeting of the Acoustical Society of America (ASA), Victoria, BC. Invited Session. November 5, 2018.
- 8) **Jahn, K.N.** (2016). “Cochlear implantation in children with severe cochleovestibular malformations”. Cochlear Implant Grand Rounds at the Annual Convention of the American Academy of Audiology (AAA), Phoenix, AZ. April 14, 2016.
- 9) **Jahn, K.N.,** Ballachanda, B.B. (2016). “Medicare basics”. Annual Convention of the American Academy of Audiology, Phoenix, AZ. April 13, 2016.
- 10) **Jahn K.N.** (2015). “Hearing preservation cochlear implantation: Benefits of bilateral acoustic hearing”. Annual Convention of the Tennessee Association of Audiologists and Speech Language Pathologists (TAASLP), Chattanooga, TN. November 5, 2015.

*Conference Presentations – Oral Presentations ( \_\_\* indicates mentored student)*

- 1) Moturi, V.\*, Wiegand-Shahani, B.M.\*, **Jahn, K.N.** (2023). Effects of cochlear implant processing on emotional responses to non-speech sounds. Podium presentation at CI2023, Dallas, TX.
- 2) Smith, S.S., **Jahn, K.N.**, Sugai, J., Hancock, K.E., Polley, D.B. (2023). Sound elicits rapid and involuntary fluctuations in the eyes, skin, and face that provide a sensitive biomarker for tinnitus and hyperacusis-related burden. Podium presentation at the 46<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Orlando, FL.

- 3) **Jahn, K.N.**, Sugai, J., Hancock, K.E., Polley, D.B. (2022). Neural, autonomic, and behavioral signatures of excess central gain in individuals with hyperacusis and tinnitus. Podium presentation at the 45<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Virtual.
- 4) Morse-Fortier, C., Griffin, A., **Jahn, K.N.**, Faller, D., Cohen, M., Kenna, M., DesRoche, E., Arenberg, J.G. (2021). Differences in impedance and programming settings between pediatric cochlear implant recipients with EVA and Connexin-26. Virtual podium presentation at the American Speech-Language-Hearing Association (ASHA) Convention, Washington, D.C.
- 5) Arjmandi, M., **Jahn, K.N.**, Franck, K., Arenberg, J.G. (2021). The relationship between focused threshold profiles and vowel identification in individuals with cochlear implants. Podium presentation at the 44<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Virtual.
- 6) Franck, K., **Jahn, K.N.**, Arenberg, J.G. (2020). Vowel confusions and threshold profiles of bilaterally implanted children. Podium presentation at the 43<sup>rd</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), San Jose, CA.
- 7) Arenberg, J.G., **Jahn, K.N.**, DiNino, M. (2019). Evidence for better neural health for children than adults with cochlear implants. Podium presentation at the 2019 Conference of Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
- 8) Arenberg, J.G., **Jahn, K.N.**, DeVries, L.A., DiNino, M. (2019). Consequences of auditory experience and cochlear implant stimulation on tuning and other measures obtained in pre-lingually deaf children and post-lingually deaf adults. Podium presentation at the 177<sup>th</sup> Meeting of the Acoustical Society of America (ASA), Louisville, KY.
- 9) **Jahn, K.N.**, DiNino, M., Winn, M.B., Arenberg, J.G. (2018). Relating vowel confusions to focused thresholds in pediatric cochlear implant users. Podium presentation at the 41<sup>st</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), San Diego, CA.
- 10) Bierer, J.A., **Jahn, K.**, DiNino, M., Kreft, H., Oxenham, A. (2017). Psychophysical tuning curves in pediatric cochlear implant listeners. Podium presentation at the annual conference of the American Auditory Society (AAS), Scottsdale, AZ.

*Conference Presentations – Poster Presentations ( \_\_\* indicates mentored student)*

- 1) Moturi, V.\*, Wiegand-Shahani, B.M.\*, **Jahn, K.N.** (2023). Effects of cochlear implant processing on emotional responses to non-speech sounds. Poster presentation at CI2023, Dallas, TX.  
- **Designated in the top 20% of conference abstract submissions.**
- 2) Koach, C.\*, **Jahn, K.N.** (2023). Barriers to effective audiological management of hyperacusis in the United States. Poster presentation at the American Academy of Audiology (AAA) conference, Seattle, WA.



- 3) Arenberg, J.G., **Jahn, K.N.**, Hem, C., Arjmandi, M. (2023). Psychophysical tuning curves as a measure of spectral resolution in children and adults with cochlear implants. Poster presentation at the 46<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Orlando, FL.
- 4) **Jahn, K.N.**, Smalt, C.J., Sugai, J.A., Smith, S.S., Hancock, K.E., Polley, D.B. (2023). Central gain is significantly but equivalently elevated in hidden hearing loss, tinnitus, and hyperacusis, suggesting an upstream pathology unrelated to any particular perceptual phenotype. Poster presentation at the 46<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Orlando, FL.
- 5) Koach, C.\*, **Jahn, KN.** (2022) Audiological diagnosis and management of hyperacusis in the United States. Poster presentation at the 22<sup>nd</sup> Annual Texas Academy of Audiology (TAA) Conference, Frisco, TX.  
- *Awarded 2<sup>nd</sup> place in the research poster category.*
- 6) **Jahn, K.N.**, Morse-Fortier, C., Griffin, A.M., Faller, D., Cohen, M.S., Kenna, M.A., Doney, E., Arenberg, J.G. (2022). Speech perception outcomes in pediatric cochlear implant recipients with enlarged vestibular aqueduct or GJB2 mutation. Poster presentation at the American Speech-Language-Hearing Association (ASHA) Convention, New Orleans, LA.
- 7) Morse-Fortier, C., Griffin, A., **Jahn, K.N.**, Faller, D., Cohen, M.S., Kenna, M.J., Doney, E., Arenberg, J.G. (2022). Differences between pediatric cochlear implant recipients with EVA and Connexin-26. Poster presentation at the 49<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society (AAS), Scottsdale, AZ.
- 8) Arjmandi, M., **Jahn, K.N.**, Franck, K., Arenberg, J.G. (2022). Using single-channel focused thresholds to predict vowel identification errors in cochlear implant listeners. Poster presentation at the 45<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), San Jose, CA.
- 9) Hem, C., Arjmandi, M., **Jahn, K.N.**, Franck, K., Arenberg, J.G. (2022). Assessing the relationship between focused behavioral thresholds and vowel space errors in cochlear implant listeners. Poster presentation at the 45<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), San Jose, CA.
- 10) **Jahn, K.N.** (2021). Audiometric profiles of adults with hyperacusis. Poster presentation at the American Speech-Language-Hearing Association (ASHA) Convention, Washington, D.C.
- 11) **Jahn, K.N.**, Sugai, J, Hancock, K., Alappatt, J.A.\*, Polley, D.B. (2021). Neural, perceptual, and autonomic signatures of loudness hypersensitivity and affective sound quality. Poster presentation at Advances and Perspectives in Auditory Neuroscience (APAN), Virtual.
- 12) Arjmandi, M., **Jahn, K.N.**, Franck, K., Hem, C., Arenberg, J.G. (2021). From the electrode-neuron interface to frequency selectivity and speech recognition. Poster presentation at the 48<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society (AAS), Virtual.

- 13) **Jahn, K.N.**, Hancock, K.E., Maison, S.F., Polley, D.B. (2020). Enhanced loudness perception in ears with reduced peripheral function: A remote psychoacoustic investigation. Poster presentation at *Acoustics Virtually Everywhere - The 179<sup>th</sup> Meeting of the Acoustical Society of America (ASA)*, Virtual.
- 14) Caswell-Midwinter, B., **Jahn, K.N.**, DesRoche, E.M., Arenberg, J.G. (2020). Cochlear implant programming parameters and outcomes in relation to etiology. Poster presentation at the 47<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society (AAS), Scottsdale, AZ.
- 15) Arenberg, J.G., **Jahn, K.N.**, Bergan, M.D.\* (2019). Comparing measures of the cochlear implant electrode-neuron interface to clinical measures in listeners with Enlarged Vestibular Aqueduct. Poster presentation at CI2019 Pediatric: 16<sup>th</sup> Symposium on Cochlear Implants in Children, Miami, FL.
- 16) **Jahn, K.N.**, DeVries, L.A., Arenberg, J.G. (2019). Forward masking recovery for poor electrode-neuron interfaces in older listeners. Poster presentation at the 46<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.  
- *Mentored Poster Award*
- 17) Bergan, M.D.\*, **Jahn, K.N.**, Arenberg, J.G. (2019). Differences in the cochlear implant electrode-neuron interface as a function of hearing loss etiology. Poster presentation at the 46<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.
- 18) Arenberg, J.G., **Jahn, K.N.**, DeVries, L.A. (2019). Methods for quantifying psychophysical tuning curves in cochlear implantees. Poster presentation at the 46<sup>th</sup> Annual Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.
- 19) **Jahn, K.N.**, Arenberg, J.G. (2019). Polarity sensitivity in children and adults with cochlear implants. Poster presentation at the 42<sup>nd</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO), Baltimore, MD.
- 20) **Jahn, K.**, Arenberg, J.G., DiNino, M. (2017). Simulating reduced cochlear implant current spread improves speech perception in normal-hearing children, yielding performance comparable to that of early-implanted children. Poster presentation at CI 2017 15<sup>th</sup> Symposium on Cochlear Implants in Children, San Francisco, CA.
- 21) Arenberg, J.G., DiNino, M., **Jahn, K.N.** (2017). Focused thresholds, psychophysical tuning curves, and vowel identification in children with cochlear implants. Poster presentation at CI 2017 15<sup>th</sup> Symposium on Cochlear Implants in Children, San Francisco, CA.
- 22) **Jahn, K.N.**, Arenberg, J.G. (2017) Reducing simulated channel interaction leads to improved speech perception for normal-hearing children and adults. Poster presentation at the 2017 Conference of Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
- 23) **Jahn, K.**, Bierer, J.A. (2017). Cochlear implant simulations of reduced current spread

improve phoneme identification. Poster presentation at the annual conference of the American Auditory Society (AAS), Scottsdale, AZ.

- 24) **Jahn, K.**, Stevenson, R., Wallace, M. (2016). Visual temporal acuity is predictive of auditory speech perception abilities in cochlear implant users. Poster presentation at the annual convention of the American Academy of Audiology, Phoenix, AZ.
- 25) Sheffield, S. **Jahn, K.**, Simha, M., Gifford, R. (2014). Acoustic bandwidth effects on bimodal benefit in children. Poster presentation at the American Cochlear Implant Alliance (ACIA) 14<sup>th</sup> Symposium on Cochlear Implants in Children, Nashville, TN.
- 26) Holder, J., Sheffield, S., **Jahn, K.**, Browder, C., Gifford, R. (2014). Speech understanding in children with normal hearing: BabyBio normative data. Poster presentation at the American Cochlear Implant Alliance (ACIA) 14<sup>th</sup> Symposium on Cochlear Implants in Children, Nashville, TN.
- 27) **Jahn, K.**, Stevenson, R., Krueger, J., Wallace, M. (2014). Is visual temporal processing related to speech perception performance after cochlear implantation? Poster presentation at the annual conference of the American Auditory Society, Scottsdale, AZ.
- 28) **Jahn, K.**, Sheffield, S., Gifford, R. (2013). Hearing preservation cochlear implantation: acoustic bandwidth required for ipsilateral EAS. Poster presentation at the annual conference of the American Auditory Society, Scottsdale, AZ.  
- *Mentored Poster Award*
- 29) Tufts, J., **Jahn, K.**, Swan, K., and Byram, J. (2012). Consistency of attenuation across multiple fittings of custom and non-custom earplugs. Poster presentation at the annual conference of the National Hearing Conservation Association, New Orleans, LA.

*Internal Presentations at UT Dallas ( \_\_\* indicates mentored student)*

- 1) Moturi, V.\*, **Jahn, K.N.** (2022). Effects of cochlear implant processing on emotional responses to nonspeech sounds. Podium presentation at the George A. Jeffrey NanoExplorer Symposium, Richardson, TX.
- 2) **Jahn, K.N.** (2022). Collaborative research projects in the UT Dallas Neuroaudiology Lab. Podium presentation at the UT Dallas New Faculty Research Symposium, Richardson, TX.

## **TEACHING AND MENTORING**

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*Primary Instructor*

### **Undergraduate Courses**

Individual Study (UT Dallas)  
Directed Research (UT Dallas)  
Audiology (UT Dallas)

Spring 2023  
Fall 2022, Spring 2023  
Spring 2022, Spring 2023

**Graduate Courses**

Anatomy and Physiology of Audition (UT Dallas) Fall 2022  
 Assessment of Balance Function (U. Washington, Co-Instructor) Summer 2017

*Teaching Assistant***Graduate Courses**

Cochlear Implants (U. Washington) Spring 2017  
 Hearing Aid Selection (U. Washington) Spring 2017

*Invited Guest Lectures*

Hearing Science PhD Seminar (UT Dallas) 2022  
 Cochlear Implants (U. Washington) 2018  
 Introduction to Human Communication and Its Disorders (U. Washington) 2018

*Laboratory Mentorship***Doctoral Students**

Jacob Alappatt (Speech, Hearing, Biosciences, and Technology; Harvard University; Co-mentored with Daniel Polley) 2021  
 - External presentations: 1

**Audiology Graduate Students**

Chelsea Koach 2022 – Present  
 - External presentations: 2  
 - 2<sup>nd</sup> Place Research Poster, 2022 Texas Academy of Audiology Conference

Sean Kashiwagura 2022 – Present

Marianne Awad 2022 – Present

Karlee Doak 2022 – Present

Braden Wiegand-Shahani 2022 – Present

Molly Bergan (University of Washington, Co-mentored with Julie Arenberg) 2017 – 2019  
 - External presentations: 2  
 - Publications: 1

**Undergraduate Students**

Manasi Patel (Neuroscience, UT Dallas)	2022 – Present
- 2023 Undergraduate Research Scholar Award	
Inayat Sidhu (Neuroscience, UT Dallas)	2022 – Present
- 2023 Undergraduate Research Scholar Award	
Mathilde Lefebvre-Demers (Mass. Eye & Ear; Co-mentored with Daniel Polley)	2019 – 2020

**High School Students**

Vaishnavi Moturi (UT Dallas NanoExplorers Program)	2022 – Present
- External presentations: 1	

*PhD Dissertation Committees***Committee Member**

Monica Trevino (Speech, Language, and Hearing Sciences; UT Dallas)	2022 – Present
Andie Zhang (Speech, Language, and Hearing Sciences; UT Dallas)	2022 – Present
Katelyn Lucas (Speech, Language, and Hearing Sciences; UT Dallas)	2022 – Present

*Audiology Third-Year Project Mentorship***Committee Chair**

Molly Bergan (University of Washington, Co-chair with Julie Arenberg)	2017 – 2019
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**PROFESSIONAL SERVICE**

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*Ad-hoc Manuscript Reviewer*

- 1) Scientific Reports
- 2) Ear and Hearing
- 3) Journal of the Association for Research in Otolaryngology
- 4) Journal of Speech, Language, and Hearing Research
- 5) Journal of the Acoustical Society of America
- 6) Journal of the Acoustical Society of America – Express Letters
- 7) Trends in Hearing

- 8) American Journal of Audiology
- 9) International Journal of Audiology
- 10) Journal of the American Academy of Audiology
- 11) Journal of Emerging Investigators
- 12) Journal of Communication Disorders

#### *External Editorial Service*

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|--|----------------|
| 1) Editorial Board Member, <i>American Journal of Audiology</i>    | 2021 – Present |
| 2) Podium selection committee, American Academy of Audiology (AAA) | 2018 – 2019    |
| 3) Poster selection committee, AAA                                 | 2017           |

#### *Professional Committees and Service*

- |   |                |
|---|----------------|
| 1) Co-chair, ARO Women, Gender Minorities, and Allies Symposium   | 2020 – Present |
| 2) Member, ARO Student/Postdoc Steering Committee (spARO)   | 2020 – 2022    |
| 3) Member, ARO Virtual Learning Initiative Committee  | 2020 – 2021    |
| 4) Co-chair, Special Session<br>“Speech Perception in Children with Hearing Impairment”<br>176 <sup>th</sup> Meeting of the Acoustical Society of America (ASA), Victoria, BC | 2018           |
| 5) Member, Auditory Prostheses Committee, ASHA  | 2019           |
| 6) Member, Support Personnel Subcommittee, AAA  | 2016 – 2018    |
| 7) Student Member, Coding and Reimbursement Committee, AAA  | 2014 – 2016    |
| 8) Philanthropy Chair, Vanderbilt Student Academy of Audiology  | 2013 – 2016    |

#### *School Committees and Service*

- |   |                |
|---|----------------|
| 1) Member, BBS Colloquium Committee, UT Dallas                | 2022 – Present |
| 2) Member, Academic Advisory Committee, UT Dallas             | 2022 – Present |
| 3) Regular Participant, Faculty Grant Review Group, UT Dallas | 2022 – Present |

#### *Speech, Language, and Hearing (SLH) Department Committees and Service*

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|--|----------------|
| 1) Co-chair, Hearing Science Faculty Search Committee, UT Dallas       | 2022 – Present |
| 2) Vice Chair, SLH PhD Admissions Committee, UT Dallas                 | 2022 – Present |
| 3) Member, SLH Graduate Studies Committee, UT Dallas                   | 2022 – Present |
| 4) Member, Psychology of Hearing Loss Certificate Committee, UT Dallas | 2022 – Present |
| 5) Member, Tinnitus Certificate Committee, UT Dallas                   | 2022 – Present |

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|---|-------------|
| 6) Member, CAPCSD Scholarship Selection Committee, UT Dallas    | 2022        |
| 7) Co-Author, Auditory Neuroscience Cluster Proposal, UT Dallas | 2022        |
| 8) Presenter, 2022 IMPACT Program Labapalooza, UT Dallas        | 2022        |
| 9) Co-chair, “Works in Progress” Seminars, Mass Eye & Ear       | 2020 – 2021 |

#### *Audiology Program Service*

- |  |                |
|--|----------------|
| 1) AuD Admissions Interviews and Open House, UT Dallas                               | 2022           |
| 2) Grand Rounds Faculty Mentor, UT Dallas  |                |
| a. Chelsea Koach   | 2022           |
| 3) Proctor and Grader, Performance Assessment of Skills (PAS) Examination, UT Dallas | 2022           |
| 4) Academic Advisor, UT Dallas   |                |
| a. Sean Kashiwagura  | 2022 – Present |
| b. Braden Wiegand-Shahani  | 2022 – Present |
| c. Marianne Awad   | 2022 – Present |

#### *Special Service Contributions*

- |   |      |
|---|------|
| 1) Faculty Mentor, George A. Jeffrey NanoExplorers Program, UT Dallas | 2022 |
|---|------|

#### *Consulting Service*

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|---|----------------|
| 1) Bongiovi Medical and Health Technologies, Port Saint Lucie, FL | 2022 – Present |
| 2) Decibel Therapeutics, Boston, MA                               | 2019           |

#### *Community Service*

- |  |             |
|--|-------------|
| 1) Hearing Screener, Special Olympics Healthy Hearing (Georgia, Tennessee) | 2013, 2014  |
| 2) Representative, HEAR Nashville Hearing Aid Assistance Program           | 2012 – 2014 |

#### *Press*

- |   |  |
|---|--|
| 1) Dallas Audiology Society Student Bulletin, July 2022                                 |  |
| a. Student research (Chelsea Koach) featured.   |  |
| 2) “High School Students Explore Science at UT Dallas”, UT Dallas Magazine, August 2022 |  |
| a. Lab and student research (Vaishnavi Moturi) featured.                                |  |