

## CURRICULUM VITAE

Monita Chatterjee, Ph.D.  
Senior Scientist & Director, Auditory Prostheses and Perception Lab,  
Center for Hearing Research  
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Omaha, NE 68131  
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### EDUCATION

- 1994 Ph. D. Syracuse University, N.Y.  
Institute for Sensory Research  
Department of Bioengineering and Neuroscience, LC Smith College of Engineering  
Dissertation: “Aspects of Frequency and Intensity Coding in the Cochlea”  
(Advisor: Jozef J. Zwislocki, Co-Advisor: Robert L. Smith)
- 1987 B.E.E. (Bachelor of Electrical Engineering) Jadavpur University, Kolkata, India

### EMPLOYMENT BACKGROUND

#### PRIMARY APPOINTMENTS

1. 2012 – Present: Senior Scientist and Director, Auditory Prostheses and Perception Lab, Boys Town National Research Hospital, Omaha, NE
2. 2009- 2012: Associate Professor, Department of Hearing and Speech Sciences, University of Maryland at College Park, MD
3. 2005-2009: Assistant Professor, Department of Hearing and Speech Sciences, University of Maryland at College Park, MD
4. 2003 – 2004: Scientist II, Department of Auditory Implants and Perception, House Ear Institute, Los Angeles, CA
5. 1998-2003: Scientist I, Department of Auditory Implants and Perception, House Ear Institute, Los Angeles, CA
6. 1994-1998: Post-doc, Department of Auditory Implants and Perception, House Ear Institute, Los Angeles, CA
7. 1988-1994: Graduate Research Assistant, Institute for Sensory Research, Syracuse University, Syracuse, NY

#### OTHER AFFILIATIONS

1. 2013 – 2014: Special Member of the Graduate Faculty, Dept. of Hearing and Speech Sciences, University of Maryland, College Park, MD.
2. 2014- Present: Associate Faculty Member, Center for the Comparative and Evolutionary Biology of Hearing, University of Maryland, College Park, MD.
3. 2013 – Present: Adjunct Associate Professor, Dept. of Special Education and Communication Disorders, University of Nebraska, Lincoln, NE.

4. 2012 – 2013: Visiting Research Associate Professor, Dept. of Hearing and Speech Sciences, University of Maryland, College Park, MD.
5. 2005 – 2012: Faculty Member, Center for the Comparative Evolutionary Biology of Hearing (C-CEBH), University of Maryland, College Park, MD
6. 2005 –2012: Faculty Member, Neuroscience and Cognitive Science Program (NACS), University of Maryland, College Park, MD
7. 2008 – 2012: Affiliate Member of the Graduate Faculty, Dept. of Bioengineering, University of Maryland, College Park, MD
8. March 2011: Visiting Scientist, House Ear Institute, Los Angeles, CA
9. April – May 2011: Visiting Faculty, Katholieke Universiteit, Leuven, Belgium
10. Sep – Dec 2021: Invited visiting professor, Universite de Lyon, Lyon, France

## GRANTS

1. 5/1/1998- 4/30/2001 **Principal Investigator** “Auditory Implant Perception in Ongoing Backgrounds,” NIH-NIDCD R03 DC03519.
2. 1/1/1999-12/31/2001 **Co-Investigator** (PI: Robert V. Shannon) “Speech Processors for Auditory Prostheses,” NIH-NIDCD N01 DC92100 [contract].
3. 4/1/2002 – 3/31/2009 **Principal Investigator**, “Complex Stimulus Perception with Cochlear Implants,” NIH-NIDCD R01 DC04786.
4. 6/20/2008 – 1/31//2013 **Principal Investigator**, “Complex Auditory Processing with Cochlear Implants,” NIH-NIDCD R01 DC04786.
5. 1/30/2009 – 1/29/2010 **Co-Investigator** (PI: Katrina McLeod), “Temporal Dynamics of Responses to Electrical Stimulation: Information Transfer from the Auditory Nerve to Brainstem Neurons” NOHR.
6. 8/1/2009 – 5/31/2011 **Principal Investigator**, “Complex Auditory Processing with Cochlear Implants” NIH-NIDCD ARRA (ACC) Supplement R01DC004786-08S1.
7. 7/11/2011 – 6/30/2014 **Principal Investigator**, “Voice pitch processing by normally hearing and cochlear-implanted children” NIH-NIDCD R21 DC011905.
8. 7/01/2013-06/30/2016 **Co-investigator** (PI: Robert V Shannon), “2013 and 2015 Conferences on Implantable Auditory Prostheses” NIH-NIDCD R13DC013522.
9. 7/1/2014 – 6/30/2020 **Principal Investigator**, “Cochlear-implanted children’s use of acoustic cues in prosody and lexical tones” NIDCD R01 DC014233.
10. 5/15/2014-03/31/-2019 **Internal Mentor** (PI: Walt Jesteadt), “Center for Perception and Communication in Children (CPCC)” NIH-NIGMS 1P20 GM109023.
11. 7/1/2015 – 6/30/2020 **Co-Program Director** (PD: Douglas Keefe), “Research in Human Communication and Its Disorders” NIH-NIDCD T32 DC000013.
12. 7/1/2015 – 6/30/2020 **Co-Investigator, Subaward PI** (PI: Rochelle Newman), “Toddlers’ listening and learning in noise: Distraction vs. Signal Degradation” NIH-NIDHD R01 HD081127.
13. 1/1/2017-12/31/2017 **Principal Investigator**, “Modulation Interference in Listeners with Cochlear Implants”. American Hearing Research Foundation grant.
14. 7/1/2017 – 6/30/2019 **Principal Investigator**, “Cochlear-Implanted Children’s Use of Acoustic Cues in

Prosody and Lexical Tones”, NIH-NIDCD R01DC014233-04S1 [**Supplement to Promote Diversity in Research**].

15. 1/5/2018-6/30/2022 **Co-investigator, subaward PI** (PI: Shuman He), “Neural coding and auditory perception in cochlear implant users” NIH-NIDCD R01 DC016038.
16. 4/1/2019 – 3/31/2024 **COBRE B (Technology Core Sub Project) Director**, “Center for Perception and Communication in Children”, NIH-NIGMS P20GM109023 [Voluntarily transitioned out of this role in 2019 in favor of **Dr. Daniel Rasetshwane**].
17. 8/1/2019-7/31/2024 **Co-investigator** (PI: Ryan McCreery), “Complex listening skills in school-age hard of hearing children”, NIH-NIDCD R01 DC013591.
18. 1/1/2020 – 12/31/2020 [extended to 12/31/2021] **Principal Investigator**, “Age-related changes in the perception of emotional speech with cochlear implants”, American Hearing Research Foundation grant.
19. 7/1/2020 – 6/30/2025 **Program Director**, “Research in Communication Sciences and Disorders”, NIH-NIDCD T32DC000013 [Post-doc training grant].
20. 4/1/2020 – 3/31/2021 **Principal Investigator**, “Acoustic features of vocal emotion productions by children with cochlear implants”, BTNRH NIH NIGMS COBRE Pilot grant.
21. 1/3/2022 – 12/31/2022 **co-Investigator**, “Vocal emotion communication in children with cochlear implants”, House Institute Foundation grant.
22. 7/1/2022 – 6/30/2027 **Principal Investigator**, “Perception and production of emotional prosody with cochlear implants”, NIH NIDCD R01. Pending (favorably reviewed 2/2022).

## HONORS/ AWARDS

1. 1992: Di Carlo Fellowship, Syracuse University
2. 1994: Doctoral Prize, Syracuse University
3. 2009: University Research Leader, University of Maryland, College Park
4. 2013: Elected Scientific Chair, Conference on Implantable Auditory Prostheses
5. 2017: CI 2017 Conference Keynote Speaker
6. 2017: Elected Fellow of the Acoustical Society of America “for contributions to cochlear implant psychophysics and speech perception”
7. 2018: American Auditory Society Translational Research Speaker
8. 2022: Association for Research in Otolaryngology Midwinter meeting (ARO), Presidential Symposium Panelist, *Intentional Mentoring Panel*
9. 2022: Invited speaker, ARO Symposium on “Auditory Cognition in Cochlear Implants: Scene Analysis, Attention, Effort, and Real-World Communications”
10. 2022: Auditory System Gordon Research Conference Invited Speaker, Bryant College, RI.

## PUBLICATIONS

**A. Peer-reviewed (\*\* indicates student co-author, \* indicates post-doc co-author)**

[https://www.ncbi.nlm.nih.gov/pubmed/?term=Chatterjee+M+AND+\(cochlear+OR+speech\)](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chatterjee+M+AND+(cochlear+OR+speech))

1. **Chatterjee, M.**, and Smith, R. L. (1993) Physiological overshoot and the compound action potential. *Hear. Res.* 69: 45-54.
2. **Chatterjee, M.**, and Zwislocki, J. J. (1997) Cochlear mechanisms of intensity and frequency coding: I. The place code for pitch. *Hear. Res.* 111: 65-75.
3. McCreery, D. B., Shannon, R. V., Moore, J. K., and **Chatterjee, M.** (1998) Accessing the tonotopic organization of the ventral cochlear nucleus by intranuclear microstimulation. *IEEE Trans. Rehabil. Eng.* 6(4): 391-399.
4. **Chatterjee, M.**, Fu, Q.-J., and Shannon, R. V. (1998) Within-channel gap detection using dissimilar markers in cochlear implant listeners. *J. Acoust. Soc. Am.* 103(5): 2515-2519.
5. **Chatterjee, M.**, and Shannon, R. V. (1998) Forward masked excitation patterns in multielectrode electrical stimulation. *J. Acoust. Soc. Am.* 103(5): 2565-2572.
6. **Chatterjee, M.**, and Zwislocki, J. J. (1998) Cochlear mechanisms of frequency and intensity coding. II. Dynamic range and the code for loudness. *Hear. Res.* 124:170-181.
7. **Chatterjee, M.** (1999) Effects of stimulation mode on threshold and loudness growth in multielectrode implants. *J. Acoust. Soc. Am.* 105(2 Pt 1): 850-860.
8. **Chatterjee, M.** (1999) Temporal mechanisms underlying recovery from forward masking in multielectrode implant listeners. *J. Acoust. Soc. Am.* 105(3): 1853-1863.
9. **Chatterjee, M.**, Fu, Q.-J., and Shannon, R. V. (2000) Effects of phase duration and electrode separation on loudness growth in cochlear implant listeners. *J. Acoust. Soc. Am.* 107(3): 1637-1644.
10. **Chatterjee, M.**, and Robert, M. E. (2001) Noise enhances modulation sensitivity in cochlear implant listeners: stochastic resonance in a prosthetic sensory system? *J. Assoc. Res. Otolaryngol.* 2(2): 159-171.
11. **Chatterjee, M.** (2003) Modulation masking in cochlear implant listeners: envelope vs. tonotopic components. *J. Acoust. Soc. Am.* 113(4): 2042-2053.
12. Abdala, C. A., and **Chatterjee, M.** (2003) Maturation of cochlear nonlinearity as measured by distortion product otoacoustic emission (DPOAE) suppression growth in humans. *J. Acoust. Soc. Am.* 114(2): 932-943.
13. **Chatterjee, M.**, and Oba, S. I. (2004) Across- and within-channel envelope interactions in cochlear implant listeners. *J. Assoc. Res. Otolaryngol.* 5(4): 360-375.
14. **Chatterjee, M.**, and Oba, S. I. (2005) Noise improves modulation detection by cochlear implant listeners at moderate carrier levels. *J. Acoust. Soc. Am.* 118(2): 993-1002.
15. **Chatterjee, M.**, Galvin, J. J., Fu, Q.-J., and Shannon, R. V. (2006) Effects of stimulation mode, level, and location on forward-masked excitation patterns in cochlear implant patients. *J. Assoc. Res. Otolaryngol.* 7(1):15-25 (Epub: Nov. 2005).
16. **Chatterjee, M.**, Sarampalis, A.\*, and Oba, S. I. (2006) Auditory stream segregation with cochlear implants: a preliminary report. *Hear. Res.* 222: 100-107.
17. **Chatterjee, M.**, and Peng, S. C.\* (2008) Processing F0 with cochlear implants: Modulation frequency discrimination and speech intonation recognition. *Hear. Res.* 235(1-2):143-56. (Epub: Nov 2007).
18. Schwartz, K. C.\*\*, **Chatterjee, M.**, and Gordon-Salant, S. (2008) Recognition of spectrally degraded phonemes by younger, middle-aged and older normal-hearing listeners. *J. Acoust. Soc. Am.* 124(6): 3972-3988.

19. Peng, S. C.\*, Lu, N., and **Chatterjee, M.** (2009) Effects of cooperating and conflicting cues on speech intonation recognition by cochlear implant users and normal hearing listeners. *Audiol. and Neurotol.* 14(5):327-337
20. **Chatterjee, M.**, and Yu, J.\*\* (2010) A relation between electrode discrimination and amplitude modulation detection by cochlear implant listeners. *J. Acoust. Soc. Am.* 127(1): 415 – 426
21. **Chatterjee, M.**, Peredo, F.\*\*, Nelson, D.\*\*, and Baskent, D. (2010) Recognition of interrupted sentences under conditions of spectral degradation. *J. Acoust. Soc. Am.* 127(2): EL37-41
22. Baskent, D., and **Chatterjee, M.** (2010) Recognition of temporally interrupted and spectrally degraded sentences with additional unprocessed low-frequency speech. *Hear. Res.* 270(1-2), 127-133.
23. **Chatterjee, M.**, and Oberzut, C.\*\* (2011) Detection and rate discrimination of amplitude modulation in electric hearing. *J. Acoust. Soc. Am.* 130(3), 1567 – 1580.
24. Schwartz, K. C.\*\*, and **Chatterjee, M.** (2012) Gender identification in younger and older adults: use of spectral and temporal cues. *Ear Hear* 33(3), 411-420.
25. Winn, M. B.\*\*, **Chatterjee, M.**, and Idsardi, W. J. (2012) The use of acoustic cues for phonetic identification: Effects of spectral degradation and electric hearing. *J. Acoust. Soc. Am.* 131(2), 1465-1479.
26. Deroche, M. L. D.\*, Zion, D. J.\*\*, Schurman J.R.\*\*, and **Chatterjee, M.** (2012) Sensitivity of school-aged children to pitch-related cues. *J. Acoust. Soc. Am.* 131(4), 2938-47.
27. Peng, S. C.\*, **Chatterjee, M.**, and Lu, N. (2012) Acoustic cue integration in speech intonation recognition with cochlear implants. *Trends in Amp.* 16(2), 67-82.
28. Newman, R., and **Chatterjee, M.** (2013) Toddlers' recognition of noise-vocoded speech. *J. Acoust. Soc. Am.* 133(1), 483-494.
29. Newman, R. S., Morini, G.\*\*, and **Chatterjee, M.** (2013) Infants' name recognition in on- and off-channel noise. *J. Acoust. Soc. Am* 133(5), EL377-EL383.
30. Winn, M. B.\*\*, **Chatterjee, M.**, and Idsardi, W. J. (2013). Roles of voice onset time and F0 in stop consonant voicing perception: Effects of masking noise and low-pass filtering. *J. Speech Lang. Hear. Res.* 56(4), 1097-1107.
31. Bologna, W. J.\*\*, **Chatterjee, M.**, and Dubno, J. R. (2013) Perceived listening effort for a tonal task with contralateral competing signals. *J. Acoust. Soc. Am.* EL 134(4), EL352-358.
32. Deroche, M. L.\*, Culling, J. F., and **Chatterjee, M.** (2013) Phase effects in masking by harmonic complexes: speech recognition. *Hear. Res.* 306, 54-62.
33. Ding, N.\*, **Chatterjee, M.**, and Simon, J.Z. (2013) Robust cortical entrainment to the speech envelope relies on the spectro-temporal fine structure. *Neuroimage* 88C, 41-46.
34. Winn, M. B.\*\*, Rhone, A. E.\*\*, **Chatterjee, M.**, and Idsardi, W. J. (2013) The use of auditory and visual context in speech perception by listeners with normal hearing and listeners with cochlear implants. *Frontiers Psychol* 4, 824. doi: 10.3389/fpsyg.2013.00824.
35. Deroche, M. L.\*, Culling, J. F., **Chatterjee, M.**, and Limb, C. J. (2014) Speech recognition against harmonic and inharmonic complexes: spectral dips and periodicity. *J. Acoust. Soc. Am.* 135(5), 2873-2884.
36. **Chatterjee, M.**, and Kulkarni, A. M. (2014) Sensitivity to pulse phase duration in cochlear implant listeners: Effects of stimulation mode. *J. Acoust. Soc. Am.* 136(2), 829-840.

37. Clarke, J.\*\*\*, Gaudrain, E., **Chatterjee, M.**, and Baskent, D. (2014) T'aint the way you say it, it's what you say – Perceptual continuity of voice and top-down restoration of speech. *Hear. Res.* 315, 80-87.
38. Deroche, M.L.\*, Lu, H., Limb, C.J., Lin, Y., and **Chatterjee, M.** (2014). Deficits in the pitch sensitivity of cochlear-implanted children speaking English or Mandarin. *Front. Neurosci.* 8:282. doi: 10.3389/fnins.2014.00282
39. Deroche, M. L.\*, Culling, J. F., **Chatterjee, M.**, and Limb, C. J. (2014) Roles of the target and masker fundamental frequencies in voice segregation. *J. Acoust. Soc. Am.* 136(3), 1225-1236.
40. Deroche, M. L.\*, Culling, J. F., and **Chatterjee, M.** (2014) Phase effects in masking by harmonic complexes: Detection of bands of speech-shaped noise. *J. Acoust. Soc. Am.* 136(5), 2726-2736.
41. Zhang, J., Xie, L., Li, Y., **Chatterjee, M.**, and Ding, N.\* (2014) How noise and language proficiency influence speech recognition by individual non-native listeners. *PLOS One* 19;9(11):e113386, doi: 10.1371/journal.pone.0113386
42. **Chatterjee, M.**, Zion, D. J.\*\*\*, Deroche, M. L.\*, Burianek, B. A.\*\*\*, Limb, C. J., Goren, A. P.\*\*\*, Kulkarni, A.M., and Christensen, J.A. (2014) Voice emotion recognition by cochlear-implanted children and their normally-hearing peers. *Hear. Res.* 322, 151-162. (Invited Paper, Lasker Issue)
43. Schvartz-Leyzac, K. C.\*\*\*, and Chatterjee, M. (2015) Fundamental-frequency discrimination using noise-band-vocoded harmonic complexes in older listeners with normal hearing. *J. Acoust. Soc. Am.* 138, 1687-1695.
44. Newman, R. S., **Chatterjee, M.**, Morini, G.\*\*\*, and Remez, R. (2015) Toddlers' comprehension of degraded signals: noise-vocoded vs. sine-wave analogs. *J. Acoust. Soc. Am.* 138, EL311-317.45.
45. Galvin, J. J., Oba, S. I., Baskent, D., **Chatterjee, M.**, and Fu, Q.-J. (2015) Envelope interactions in multi-channel amplitude modulation frequency discrimination by cochlear implant users. *PLOS One* 10(10): e0139546. doi: 10.1371/journal.pone.0139546.
46. Deroche, M. L. D., Kulkarni, A. M., Christensen, J. A., Limb, C. J., and **Chatterjee, M.** (2016) Deficits in the sensitivity to pitch sweeps by school-aged children wearing cochlear implants *Front. Neurosci.* 10:0007;. doi:10.3389/fnins.2016.00073.
47. Bosen, A. K.\*, and **Chatterjee, M.** (2016) Band importance functions of listeners with cochlear implants using clinical maps. *J. Acoust. Soc. Am.* 140(5), 3718-3727.
48. Peng, S. C., Lu, H.P., Lu, N., Lin, Y. S., Deroche, M. L., and **Chatterjee, M.** (2017) Processing of acoustic cues in lexical tone identification by pediatric cochlear implant recipients. *J.S.L.H.R.* 60(5), 1223-1235.
49. Tejani, V.\*\*\*, Schvartz-Leyzac, K.\*\*\*, and **Chatterjee, M.** (2017) Sequential stream segregation in normally-hearing and cochlear-implant listeners. *J. Acoust. Soc. Am.* 141(1), 50-64.
50. Jiam, N. T., Caldwell, M., Deroche, M. L., **Chatterjee, M.**, and Limb, C. J. (2017) Voice emotion perception and production in cochlear implant users. *Hear. Res.* *In Press*.
51. **Chatterjee, M.**, and Kulkarni, A. M. (2017) Recovery from forward masking in cochlear implant listeners depends on stimulation mode, level and electrode location. *J. Acoust. Soc. Am.* 141(5), 3190-3202.
52. Deroche, M. L. D., Limb, C. J., **Chatterjee, M.**, and Gracco, V. L. (2017) Similar abilities of musicians and non-musicians to segregate voices by fundamental frequency. *J. Acoust. Soc. Am.* 142(4), 1739-1755.
53. Cannon, S. A., and **Chatterjee, M.** (2018). Voice emotion recognition by children with mild-to-moderate hearing loss. *Ear and Hearing* 40(3), 477-492.

54. **Chatterjee, M.**, and Kulkarni, A. M. (2018). Modulation detection interference in cochlear implant listeners under forward masking conditions. *J. Acoust. Soc. Am.* **143(2)**: 1117-1127.
55. Tinnemore, A. R.\*\*, Zion D.J., Kulkarni, A. M., and **Chatterjee, M.** (2018). Children's recognition of emotional prosody in spectrally degraded speech is predicted by their age and cognitive status. *Ear and Hearing.* **39(5)**: 874-880.
56. Christensen, J. A., Sis, J.\*\*, Kulkarni, A. M., and **Chatterjee, M.** (2019). Effects of age and hearing loss on the recognition of emotions in speech. *Ear and Hearing* 40(5), 1069-1083.
57. Deroche, M. L. D., Lu, H. P., Kulkarni, A. M., Caldwell, M., Barrett, K. C., Peng, S. C., Limb, C. J., Lin, Y. S., and **Chatterjee, M.** (2019). A tonal-language benefit for pitch in normally-hearing and cochlear-implanted children. *Scientific Reports* 9(1):109. doi:10.1038/s41598-018-36393-1
58. Deroche, M. L., Lu, H. P., Lin, Y. S., **Chatterjee, M.**, and Peng, S. C. (2019). Processing of acoustic information in lexical tone production and perception by pediatric cochlear implant recipients. *Frontiers in Neuroscience*, 13, 639.
59. Damm, S. A.\*\*, Sis, J. L., Kulkarni, A. M., and **Chatterjee, M.** (2019). How vocal emotions produced by children with cochlear implants are perceived by their hearing peers. *Journal of Speech, Language, and Hearing Research*, 62(10), 3728-3740.
60. **Chatterjee, M.**, Kulkarni, A. M., Siddiqui, R. M., Christensen, J. A., Hozan, M., Sis, J. L.\*\*, and Damm, S. A.\*\* (2019). Acoustics of emotional prosody produced by prelingually deaf children with cochlear implants. *Frontiers in Psychology*, 10 doi: 10.3389/fpsyg.2019.02190
- 61 Barrett, K. C., **Chatterjee, M.**, Caldwell, M. T., Deroche, M. L., Jiradejvong, P., Kulkarni, A. M., and Limb, C. J. (2020). Perception of Child-Directed Versus Adult-Directed Emotional Speech in Pediatric Cochlear Implant Users. In Press, *Ear and Hearing*. doi: 10.1097/AUD.0000000000000862.
62. Newman, R. S., Morini, G., Shroads, E., and **Chatterjee, M.** (2020). Toddlers' fast-mapping from noise-vocoded speech. *J. Acoust. Soc. Am.* 147(4), 2432-2441.
63. Cannon S.\*\*, **Chatterjee M.** (2021) Age-related changes in voice emotion recognition by post-lingually deafened listeners with cochlear implants. *Ear Hear* doi: 10.1097/AUD.0000000000001095. Epub ahead of print.
64. Richter M.\*\*, **Chatterjee M.** (2021) Weighting of prosodic and lexical-semantic cues for emotion identification in spectrally degraded speech and with cochlear implants. *Ear Hear* 42(6):1727-1740. doi: 10.1097/AUD.0000000000001057.
65. Lin YS, Wu CM, Limb CJ, Lu HP, Feng IJ, Peng SC, Deroche MLD, Chatterjee M. (2022) Voice emotion recognition by Mandarin-speaking pediatric cochlear implant users in Taiwan. *Laryngoscope Investig Otolaryngol.* 7(1), 250-258. doi: 10.1002/lio2.732.

## B. Monographs, Reports, and Extension Publications

1. Chatterjee, M. (1994) Aspects of intensity and frequency coding in the cochlea. PhD Dissertation, Syracuse University and ISR Special Report 31.

## C. Book Reviews, Other Articles, and Notes

1. Zwislocki, J. J., and Chatterjee, M. (1995) On the neural code for loudness and its cochlear correlates. In:

*Advances in Hearing Research*, eds. Manley et al., World Scientific, Singapore.

2. Friesen, L. F., Fu, Q.-J., Chatterjee, M., and Galvin, J. J. (2001) Cochlear implant research: overview, current and future trends. *ASHA Div. 6 Newsletter*.
3. Chatterjee, M. (2002). Cochlear Implants: Bridging Auditory Neuroscience and Technology, *The Hearing Review*, April 2002.
4. Chatterjee M., and Galvin, J. J. III (2004) Cochlear Implants For Young Children (Invited Book Review). *J. Acoust. Soc. Am.* 115(4): 1385-1386
5. Chatterjee, M., Peng, S. C., Wawroski L.\*\* and Oberzut, C.\*\* (2010) Voice Pitch Processing with Cochlear Implants. *IFMBE Proceedings Vol 32, 26<sup>th</sup> Southern Biomedical Engineering Conference 2010* eds. Herold, Bentley, Vossoughi
6. Smith, R.L. & Chatterjee, M. (2019) Obituary: Jozef J. Zwislocki, 1922-2018. *Acoustics Today*, Spring 2019.

### **INVITED TALKS (since 2000)**

1. Chatterjee, M. (9/26/2000) "Auditory Processing in Normal and Prosthetic Hearing". National Center for Biological Sciences, Bangalore, India.
2. Chatterjee, M. (8/15/2001) "Auditory Processing with Cochlear Implants." Smith-Kettlewell Eye Research Institute, San Francisco, CA.
3. Chatterjee, M. (3/22/2002) "Modulation detection in noise by cochlear implant listeners." Washington University Medical School Dept. of Otolaryngology, St. Louis, MO.
4. Chatterjee, M. (1/31/2003) "Amplitude-modulation detection by cochlear implant listeners: effects of competing envelopes". Department of Bioengineering Seminar, Syracuse University, Syracuse, NY.
5. Chatterjee, M. (2/2/2003) "Channel-interaction in cochlear implants: dynamic vs. steady-state stimuli" Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL.
6. Chatterjee, M. (4/30/2003) The "Zwislocki Effect" in my work with cochlear implants. 2003 Spring meeting of the Acoustical Society of America, Session: "Honoring the Contributions of Jozef Zwislocki", Nashville, TN.
7. Chatterjee, M. (8/2003) "Effects of noise on envelope processing by cochlear implant listeners: from masking to enhancement" 2003 Conference on Implantable Auditory Prostheses, Asilomar, CA.
8. Chatterjee, M. (12/15/2003) "How temporal and spectral aspects of stimuli shape perceptual channels in cochlear implants" Department of Hearing and Speech Sciences seminar, University of Maryland, College Park, MD.
9. Chatterjee, M. (9/20/2004). "Cross-channel envelope interactions in cochlear implant listeners". Berkeley Ear club, University of California at Berkeley, CA.
10. Chatterjee, M. (11/24/2004) "Encoding sound for cochlear implants" Indian Institute of Technology Kanpur, Uttar Pradesh, India
11. Chatterjee, M. (11/22/2004) "Encoding sound for cochlear implants". National Brain Research Centre, Manesar, Haryana, India
12. Chatterjee, M. (8/1/2005) "Across-channel envelope interactions in cochlear implant listeners". 2005



Conference on Implantable Auditory Prostheses, Asilomar, CA.

13. Chatterjee, M. (10/14/2005) “Across-channel interactions in cochlear implant listeners: effects of envelope, place and loudness coding” Dept. of Hearing, Speech and Language Sciences, Gallaudet University, Washington, DC.
14. Chatterjee, M. (04/05/2006) “Listening to multiple channels with a cochlear implant: interactions in envelope, place, and loudness domains”, DeVault Laboratory Colloquium, Dept. of Otolaryngology, Indiana University School of Medicine, Indianapolis, IN.
15. Chatterjee, M. (05/01/2006) “Listening to multiple channels with cochlear implants”, Department of Otolaryngology Head and Neck Surgery at Johns Hopkins University School of Medicine, Baltimore, MD.
16. Chatterjee, M. (1/6/2007) “Cochlear implants: from silence to sound” National Council of Education Bengal, Kolkata, India.
17. Chatterjee, M., and Peng, S. C. (7/20/2007) “Processing fundamental frequency with cochlear implants: psychophysics and speech intonation”. 2007 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
18. Chatterjee, M. (11/14/2007) “Cochlear Implants: Manufactured Sound” Acoustical Society of America DC Chapter Meeting, American Center for Physics, College Park, MD.
19. Chatterjee, M. (12/05/2007) “Spectro-temporal resolution in cochlear implant listeners” Kresge Hearing Research Institute, University of Michigan, Ann Arbor, MI
20. Chatterjee, M. (9/26/2008) “Spectral and temporal resolution in electrical hearing, and implications for speech and music perception by cochlear implant listeners.” Annual Convention of the Pennsylvania Academy of Audiology, Harrisburg, PA.
21. Chatterjee, M. (12/05/2008) “Cochlear Implants” invited lecture to AuD students at Salus University, Elkins Park, PA.
22. Chatterjee, M. (5/29/2009) “Temporal Pattern Processing With Cochlear Implants”, Neurosciences Sensorinelles, Comportement, Cognition laboratory, Universite Claude Bernard – CNRS, Lyon, France.
23. Chatterjee, M. (6/3/2009) “Complex Signal Processing With Cochlear Implants” Division of Experimental Otorhinolaryngology (Dept. Neurosciences), University of Leuven, Leuven, Belgium.
24. Chatterjee, M. (10/21/2009) “Processing Voice Pitch Changes with Cochlear Implants” City University of New York Graduate Center, New York, NY.
25. Chatterjee, M. (2/24/2010) “Introduction to Cochlear Implants” NSSHLA meeting, University of Maryland, College Park
26. Chatterjee, M. (4/15/2010) “The Music of Speech, and Electrical Hearing” C-CEBH-NIDCD joint meeting, University of Maryland, College Park.
27. Chatterjee, M., Peng, S. C., Wawroski, L. R.\*\* , and Oberzut, C. (5/1/2010) “Voice pitch processing with cochlear implants.” 2010 Southern Biomedical Engineering Conference, Fischell Dept of Bioengineering, Univ. of Maryland, College Park.
28. Chatterjee, M. (10/28/2010) “Listening with cochlear implants: Voice pitch, prosody, and more”. Boys’ Town National Research Hospital, Omaha, NE.
29. Chatterjee, M. (11/19/2010) “Cochlear Implants” State of the Science Workshop: Sensory and Communication Impairment organized by the University of Pittsburgh and Walter Reed Army Medical

Center, National Intrepid Center of Excellence, Navy Campus, Bethesda, MD.

30. Chatterjee, M. (12/10/2010) "Voice pitch and speech intonation processing with cochlear implants", Rotman Research Institute, Toronto, Ontario, CA.
31. Chatterjee, M. (05/02/2011) "Voice pitch processing with cochlear implants" Auditory Seminar, Otorhinolaryngology Dept., University of Groningen Medical Center, Groningen, NL.
32. Chatterjee, M., Peng, S. C., Oberzut, C.\*\*, Lu, N., and Lin, Y. S. (7/28/11) "Complex pitch patterns, intonation and lexical tones: Results in adults and children with CIs" 2011 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.
33. Winn, M. B.\*\*, Idsardi, W. J., and Chatterjee, M. (2011) "Divergent patterns of voicing perception in various challenging listening conditions." Presented at the Special Session on Invariant Speech Cues at the 162nd meeting of the Acoustical Society of America, San Diego, CA, November.
34. Ding, N.\*\*, Chatterjee, M., and Simon, J. (2013). "Cortical encoding of speech in challenging listening environments." Presented at the 36th Annual Midwinter Research Meeting of the Association for Research in Otolaryngology (ARO), ARO Abstracts, no. 889, Baltimore, MD, February.
35. Winn, M. B.\*\*, Rhone, A.\*\*, Chatterjee, M., and Idsardi, W. (2013). "Auditory and visual adaptation in cochlear implant speech perception." Presented at the special session on cochlear implants and bimodal hearing at the 40th annual AAS Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ, March
36. Chatterjee, M., Peng, S. C., Deroche, M.\*, Lu, H. P., Zion, D.\*\*, Lu N., Christensen, J., Limb C. J., Lin Y. S. (2013). "Processing of Pitch, Prosody, Voice Emotion, and Lexical Tones by Cochlear Implanted Children." Presentation at the 2013 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
37. Chatterjee, M. (2013). "Amplitude-modulation rate discrimination by CI listeners: channel interaction with modulated interferers." Keynote talk at CI CRASH, University of Wisconsin, Madison, WI.
38. Chatterjee, M. (4/15/2014) "The music in speech, and cochlear implants." Symposium at the Inaugural Lecture (Oratie) of Professor Deniz Baskent, Department of Otolaryngology, University Medical Center, University of Groningen, Groningen, NL.
39. Chatterjee, M. (7/10/2014) "How children with cochlear implants process pitch, prosody, and lexical tones." Summer School: Pitch, Music and Associated Pathologies, Centre Lyonnais d'Acoustique, Universite de Lyon, Lyon, FR.
40. Chatterjee, M (7/14/2015) "Voice emotion recognition and production by listeners with cochlear implants." Presentation at the 2015 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA
41. Chatterjee, M. (3/3/2016) "Voice emotion communication and lexical tone recognition by children with cochlear implants." Seminar at Arizona State University, Phoenix, AZ.
42. Chatterjee, M. (5/20/2016) "Voice emotion communication and lexical tone recognition by children with cochlear implants." Auditory Development Conference, BTNRH, Omaha, NE
43. Chatterjee, M. (9/21/2016) "Voice emotion communication by children with hearing loss." World Congress of Audiology, session titled "Emotion and Hearing Aids", Vancouver, CA.
44. Chatterjee, M. (10/7/2016) "Hearing and expression of vocal emotions by children with cochlear implants." Hearing and Communication Neuroscience Annual Symposium, University of Southern California, Los Angeles, CA.
45. Chatterjee, M. (10/25/2016) "Voice emotion communication by children with cochlear implants." Symposium titled "The future of cochlear implantation: engaging top-down and bottom-up brain

mechanisms”, University of Groningen, Dept. of Otorhinolaryngology, Groningen, NL.

46. Bosen, A., and Chatterjee, M. “Intensity and Temporal Resolution Limits on Channel Contribution to Speech Recognition.” Invited talk at the 2017, 40<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
47. Deroche, M., Peng, S. C., Lu, H. P., Lin, Y. S., Limb, C., and Chatterjee, M. “Difficulties of Cochlear-implanted Children in Utilizing Voice Pitch Information.” Invited talk at the 2017, 40<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
48. Chatterjee, M. (4/6/2017) “Temporal envelope processing with cochlear implants.” Smart Lunch Talk, BTNRH, Omaha, NE.
49. Chatterjee, M. (7/20/2017) “Complex pitch, speech prosody and lexical tone recognition with cochlear implants.” Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
50. Chatterjee, M. (7/28/2017) “The music within speech: voice emotion and cochlear implants.” CI 2017 Conference, San Francisco, CA.
51. Chatterjee, M. (7/28/2017) “The music within speech: voice emotion and cochlear implants.” Keynote lecture at the CI 2017 Conference, San Francisco, CA.
52. Chatterjee, M. (8/25/2017) “Processing of fundamental frequency changes, emotional prosody and lexical tones by pediatric CI recipients.” International Symposium on Auditory and Audiological Research (ISAAR), Nyborg, Denmark.
53. Chatterjee, M. (3/3/2018) “The perception of emotional prosody by listeners with hearing loss and cochlear implants.” American Auditory Society Translational Research Lecture, Scottsdale, AZ
54. Chatterjee, M. (6/30/2018) “Voice emotion communication by children and adults with cochlear implants”, NIH-Sponsored Research Symposium, AG Bell Convention, Scottsdale, AZ
55. Chatterjee M. (7/20/2018) “Voice pitch transmission in cochlear implants; consequences for communication”, National Center for Rehabilitative Auditory Research, Portland, OR
56. Chatterjee M. (9/26/2018) “The Perception of Emotional Prosody by Listeners with Hearing Loss and Cochlear Implants”, American Auditory Society/AudiologyOnline Lecture Series (webinar)
57. Chatterjee, M. (10/18/2018) “Listening with cochlear implants”, 21st Annual Conference of the Canadian Academy of Audiology, Niagara Falls, ON, CA.
58. Chatterjee M., Sis J, Damm S, and Kulkarni A. M. (11/07/2018) “Perception and Production of Vocal Emotions by Listeners with Normal Hearing and With Cochlear Implants”, Special Session titled “The Sound of Emotion”, 176<sup>th</sup> meeting of the Acoustical Society of America, Victoria, BC, CA
59. Chatterjee M. (3/5/2019) Melodies in speech, and cochlear implants. University of Southern California Dept. of Otolaryngology and Hearing and Communication Neuroscience Training Program, University of Southern California, Los Angeles, CA.
60. Chatterjee M. (4/19/19) When speech becomes unmusical: a tale of harmonic pitch, speech prosody, lexical tones, and cochlear implants. Seminars in hearing and communication sciences, University of Washington, Seattle, WA.
61. Cannon S.\*, and Chatterjee M. (5/15/2019) “Effects of aging on voice emotion recognition in cochlear implant users and normally hearing adults listening to spectrally degraded speech.” Special Session titled “Diversity in Auditory Perception and Speech Communication”, 177<sup>th</sup> meeting of the Acoustical Society of America, Louisville, KY [\*Cannon was invited].

62. Chatterjee M. (6/25/2019) “Cochlear implants: adaptation and plasticity in voice pitch, emotional prosody and lexical tones. University of Groningen Medical Center, Department of Otolaryngology Auditory Seminar.
63. Chatterjee M. (1/23/2020) “The music in speech: consequences of hearing loss and cochlear implantation” Experts in Audiology Research seminar and panel discussion, University of the Pacific, San Francisco, CA.
64. Chatterjee M. (12/15/2020) “Hearing voices with cochlear implants: implications for spoken emotion communication” NIH/NIDCD Seminar Series (Virtual presentation).
65. Chatterjee M (9/20/2021) “Emotional prosody and cochlear implants” Universite de Lyon, Center for Neurosciences Seminar, Lyon, France
66. Chatterjee M (12//2021) “Perception and production of emotional prosody with cochlear implants” Seminar at the University of Toulouse, Toulouse, France.
67. Chatterjee M (11//2021) “Perception and production of emotional prosody with cochlear implants”, Seminar at the University of Salamanca, Salamanca, Spain.
68. Chatterjee M (2/7/2022) “Hearing emotions with cochlear implants” Association for Research in Otolaryngology Midwinter Meeting Symposium Speaker.

**CONTRIBUTED CONFERENCE PRESENTATIONS (\*\* indicates student co-author, \* indicates post-doc co-author)**

1. Smith, R. L., Chatterjee, M., and Relkin, E. M. (1990) Auditory-nerve adaptation and the compound action potential. *Assoc. for Res. in Otolaryngol Abs.*, 13, 191.
2. Chatterjee, M., Smith, R. L., and Relkin, E. M. (1990) Some temporal effects on the sensitivity of the CAP to changes in sound intensity and frequency. *J. Acoust. Soc. Am.*, 87, S101.
3. Chatterjee, M., and Zwislocki, J. J. (1992) Output nonlinearities of cochlear hair cells can account for the diversity of rate-intensity functions of mammalian auditory-nerve afferents. *J. Acoust. Soc. Am.*, 92 (4), 2407 (A).
4. Chatterjee, M., and Zwislocki, J. J. (1993) Congruence between auditory-nerve and inner hair cell input/output functions. *Assoc. for Res. in Otolaryngol Abs.*, 16, 339.
5. Chatterjee, M., and Zwislocki, J. J. (1993) Intracellular transfer functions in the apical cochlear turn: Implications for the pitch code. *J. Acoust. Soc. Am.*, 94 (3) 1811 (A).
6. Zwislocki, J. J., and Chatterjee, M. (1993) Direct evidence for automatic gain control in the cochlea. *J. Acoust. Soc. Am.*, 94 (3) 1811 (A).
7. Chatterjee, M. and Zwislocki, J. J. (1994) Level dependence of AC and DC magnitude transfer functions in the cochlea: Implications for intensity and frequency coding. *J. Acoust. Soc. Am.*, 95 (5 Pt. 2) 2841 (A).
8. Smith, R. L., Chatterjee, M., Nguyen, M., and Stathatos, C. (1995) Peripheral responses to amplitude modulation by sinusoids: some effects of carrier frequency. *Assoc. for Res. in Otolaryngol Abs.*, 18, 741.
9. Chatterjee, M., and Zeng, F.-G. (1996) Overshoot in monaural, diotic and contralateral masking paradigms. *Assoc. for Res. in Otolaryngol Abs.*, 19, 559.
10. Shannon, R. V., McCreery, D., Chatterjee, M., and Snyder, R. (1996) Spatial and temporal multi-unit response patterns in the inferior colliculus produced by electrical stimulation of the cochlear nucleus. *Assoc. for Res. in Otolaryngol Abs.*, 19, 364.
11. Zeng, F.-G., Chatterjee, M., Fu, Q.-J., and Morse, R. P. (1996) Stochastic resonance in normal-hearing and implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 19, 419.

12. Fu, Q.-J., Chatterjee, M., Shannon, R. V., and Zeng, F.-G. (1997) Comparison of electrode interaction measures in multichannel cochlear implants. *Assoc. for Res. in Otolaryngol Abs.*, 20, 305.
13. Chatterjee, M., and Shannon, R. V. (1997) Forward masked patterns in electrical stimulation: dependence on stimulus parameters. *Assoc. for Res. in Otolaryngol Abs.*, 20, 306.
14. Chatterjee, M., Galvin, J. J., Fu, Q.-J., and Shannon, R. V. (1999) Effects of electrode separation on threshold and loudness growth functions in multi-electrode cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 22, 652.
15. Chatterjee, M., and Robert, M. E. (2000) Perception of noisy pulse trains by cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 23, 326.
16. Chatterjee, M. (2001) On the form of the exponential nonlinearity in cochlear implant stimulation. *J. Acoust. Soc. Am.*, 108, 2571.
17. Chatterjee, M., and Galvin, J. J. (2001) Modulation masking in cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 24, 608.
18. Chatterjee, M. (2001) Noise-induced release from modulation masking by Nucleus-22 cochlear implant listeners. *2001 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.*
19. Chatterjee, M., and Galvin, J. J. (2001) Auditory streaming in cochlear implant listeners. *2001 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.*
20. Chatterjee, M. (2002) Modulation masking in cochlear implant listeners: effects of masker envelope. *J. Acoust. Soc. Am.*, 111, 2338.
21. Chatterjee, M. (2002) Modulation detection in noise by cochlear implant listeners: across-channel vs. within-channel effects. *Assoc. for Res. in Otolaryngol Abs.*, 460.
22. Chatterjee, M., and Galvin, J. J. (2002) Auditory streaming in cochlear implant listeners. *J. Acoust. Soc. Am.*, 111, 2429.
23. Smith, R. L., Chatterjee, M., and Sanpetrino, N. (2003) The time course of "simultaneous" masking in cochlear implant listeners: an "overshoot" in electrical stimulation? *Assoc. for Res. in Otolaryngol Abs.*, 26, 290.
24. Chatterjee, M., and Robert, M. E. (2003) Further investigations of a possible supra-threshold stochastic resonance phenomenon in cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 26, 782.
25. Chatterjee, M., and Oba, S. (2003) Channel-interaction with dynamic stimuli in cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 26, 236.
26. Chatterjee, M., and Oba, S. (2003) Across-electrode envelope interactions in cochlear implant listeners. *2003 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.*
27. Sarampalis, A.\*, and Chatterjee, M. (2004) Amplitude-modulation detection with cochlear implants: effects of electrode separation and stimulus level. *J. Acoust. Soc. Am.*, 115 (5 Pt. 2): 2385.
28. Sarampalis, A.\*, and Chatterjee, M. (2005) Across-channel modulation detection interference in cochlear implants at low modulation rates. *Assoc. for Res. in Otolaryngol Abs.*, 542.
29. Chatterjee, M., and Oba, S. I. (2005) Envelope interactions in cochlear implant listeners: speech-like stimuli. *Assoc. for Res. in Otolaryngol Abs.*, 19.
30. Schwartz, K. C.\*\*, Chatterjee, M., and Dade, M.\*\* (2006) Multi-channel loudness perception in cochlear implant listeners. *Assoc. for Res. in Otolaryngol Abs.*, 1046.
31. Chatterjee, M., and Peng, S. C.\* (2006) Listening in the valleys with cochlear implants: speech perception vs. psychophysics. *J. Acoust. Soc. Am.*, 119 (5 Pt. 2): 3238.
32. Chatterjee, M., and Peng, S. C.\* (2007) Processing fundamental frequency contrasts with cochlear implants: psychophysics and speech intonation. *Assoc. for Res. in Otolaryngol Abs.*, 885.

33. Peng, S. C.\*, and Chatterjee, M. (2007) Speech intonation recognition with conflicting and cooperating cues: acoustic vs. electric hearing. *2007 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.*
34. Schwartz, K. C.\*\*, Chatterjee, M., and Gordon-Salant, S. (2007) Effects of aging on the recognition of spectrally degraded speech. *2007 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.*
35. Schwartz, K. C.\*\*, Chatterjee, M., and Gordon-Salant, S. (2007) Effects of aging on the recognition of spectrally degraded speech. *2007 Conference on Aging and Speech Communication, Indiana University, Bloomington, IN.*
36. Yu, J.\*\*, and Chatterjee, M. (2007) Electrode discrimination and modulation sensitivity in electrical hearing. *2007 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.*
37. Chatterjee, M., and Schwartz, K. C.\*\* (2008) Multi-electrode spatial pattern discrimination with cochlear implants. *Assoc. for Res. in Otolaryngol Abs., 292.*
38. Peng, S.C.\*, Lin, Y. S., and Chatterjee, M. (2008) Integration of fundamental frequency and duration cues in lexical tone recognition by cochlear implant recipients and listeners with normal hearing. *Assoc. for Res. in Otolaryngol Abs., 813.*
39. Schwartz, K. C.\*\*, and Chatterjee, M. (2009) Amplitude modulation rate discrimination by younger and older listeners. *Assoc. for Res. in Otolaryngol Abs., 142.*
40. Peng, S. C., Chatterjee, M., and Lin, Y. S. (2009) Use of fundamental frequency and duration information in lexical tone perception and production by cochlear implant and normal hearing children. *Assoc. for Res. in Otolaryngol Abs., 442.*
41. Wawroski, L. R.\*\*, Chatterjee, M., and Peng, S. C. (2009) F0-based intonation recognition by hearing and cochlear-implanted children. *Assoc. for Res. in Otolaryngol Abs., 442.*
42. Chatterjee, M., and Schwartz, K. C.\*\* (2009) Subjective estimates of multi-channel loudness growth in cochlear-implant listeners. *Assoc. for Res. in Otolaryngol Abs., 706.*
43. Chatterjee, M., Nelson, D.\*\*, Peredo, F.\*\*, and Baskent, D. (2009) Perceptual restoration of interrupted speech: effects of spectral degradation. *Assoc. for Res. in Otolaryngol Abs., 711.*
44. Chatterjee, M., Peng, S. C.\*, Hoffard, K.\*\*, Zion, D.\*\*, Carls, S.\*\*, Holke, J.\*\*, and Nagler, B.\*\* (2009) Masking release from modulated noise: spectral degradation and cochlear implants. *2009 American Auditory Society Meeting*
45. Schwartz, K. C.\*\*, and Chatterjee, M. (2009) Effects of aging on spectro-temporal coding of voice-pitch information. *2009 American Auditory Society Meeting.*
46. Peng, S. C., Lin, Y.-S, Chatterjee, M., and Lu, N. (2009) Effects of linguistic experience on the use of acoustic cues in question-statement identification by pediatric and cochlear implant recipients. *2009 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA*
47. Schwartz, K. C.\*\*, and Chatterjee, M. (2009) Processing of spectrally degraded voice pitch by older listeners. *2009 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA*
48. Chatterjee, M., and Oberzut, C.\*\* (2009) Multi-channel interactions in amplitude modulation detection and discrimination by cochlear implant listeners. *2009 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA*
49. Chatterjee, M., and Oberzut, C.\*\* (2010) Multi-channel amplitude modulation detection and discrimination by cochlear implant listeners. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*
50. Peredo, F.\*\* and Chatterjee, M. (2010) Effects of spectral degradation on perceptual restoration of interrupted sentences. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*
51. Winn, M. B.\*\*, and Chatterjee, M. (2010) Phonetic cues are weighted differently when spectral resolution is degraded. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*
52. Tejani, V.\*\*, Schwartz, K. C.\*\*, and Chatterjee, M. (2010) Sequential stream segregation of spectrally degraded

tones. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*

53. Wawroski, L.\*\*\*, Chatterjee, M., and Peng\*, S. C. (2010) F0-based speech intonation recognition by hearing and cochlear-implanted children. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*
54. Yu, J.\*\*\*, Chatterjee, M., and Peng, S. C. (2010) Speech intonation recognition and previous experience in a tonal language. *2010 Meeting of the American Auditory Society, Scottsdale, AZ*
55. Tejani, V.\*\*\*, Schwartz, K. C.\*\*\*, and Chatterjee, M. (2011) Sequential Stream Segregation By Cochlear Implant and Normally Hearing Listeners. *2011 ARO Abstracts, no. 986.*
56. Winn, M.\*\*\*, Chatterjee, M., and Idsardi, W. (2011) Modulation of Phonetic Cue-Weighting in Adverse Listening Conditions. *2011 ARO Abstracts, no. 750.*
57. Zion, D.\*\*\*, Schurman, J.\*\*\*, Deroche, M.\*, and Chatterjee, M. (2011) Complex Pitch Processing By School-Aged Children. *2011 ARO Abstracts, no. 476.*
58. Fitzgerald, T., Chatterjee, M., Bologna, W.\*\*\*, Do, Christina\*\*, and Merkison, M.\*\* (2011) Transient-Evoked Otoacoustic Emission Suppression Using Speech and Speech-Like Contralateral Suppressors. *2011 ARO Abstracts, no. 375.*
59. Winn, M. B.\*\*\*, Chatterjee, M., and Idsardi, W. J. (2011) The Perception Of Phonetic Features And Acoustic Cues By Impaired Listeners. *161<sup>st</sup> meeting of the Acoustical Society of America (Abstract no 2ASC4).*
60. Winn, M. B.\*\*\*, and Chatterjee, M. (2011) Normalization To Talker Gender And F0: Phonetic Category Adjustment By Cochlear Implant Users. *Conference on Implantable Auditory Prostheses, Abstract. no B41.*
61. Ding, N.\*\*\*, Chatterjee, M., and Simon, J. Z. (2011) Temporal Processing Of Vocoded Speech In Human Auditory Cortex. *Conference on Implantable Auditory Prostheses, Abstract. no C15.*
62. Chatterjee, M., Newman, R., Morini, G.\*\*\*, and Eisenberg, D.\*\* (2011) Toddler's recognition of noise-vocoded speech. Poster presented at the International Association for Child Language Conference, July.
63. Bologna, W.\*\*\*, Chatterjee, M., and Dubno, J. R. (2012) Detection Of Irregular Rhythm: Effects Of Streaming And Contralateral Distractors. *American Auditory Society meeting (Mentored Doctoral Student award to WB).*
64. Chatterjee, M., and Kulkarni, A. (2013) Recovery from forward masking in Cochlear Implant listeners depends on stimulation mode. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
65. Clarke, J.\*\*\*, Chatterjee, M., Gaudrain, E., and Baskent, D. (2013) Phonemic restoration: Studying the effect of voice alternation. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
66. Deroche, M.\*, and Chatterjee, M. (2013) Phase effects in speech recognition masked by harmonic complexes. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
67. Deroche, M.\*, Lin, Y-S., Lu H-P., Peng, S-C., Limb, C,J., and Chatterjee, M. (2013) Sensitivity of normally-hearing and Cochlear-Implanted children raised in the US and Taiwan to pitch-related cues. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
68. Deroche, M.\*, and Chatterjee, M. (2013) The pitch of the broadband temporal envelope: Effects of modulation rate and shape. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
69. Ding, N.\*\*\*, Chatterjee, M., and Simon, J. Z. (2013) Cortical encoding of speech in challenging listening environments. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February
70. Friesen, L., Chatterjee, M., Kulkarni, A., Joglekar, S., and Srinivasan, A.\*\* (2013) Nerve survival in CI patients,

and its functional consequences: Psychophysical measures and cortical recordings. Presented at the Association for Research in Otolaryngology 36<sup>th</sup> MidWinter Meeting, Baltimore, February

71. Joglekar, S., Chatterjee, M., and Friesen, L. (2013) Mechanisms Underlying Hearing Preservation In CI Users. Presented at the 2013 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July
72. Kulkarni, A., and Chatterjee, M. (2013) Effects of Stimulation Mode on Temporal Processing by Cochlear Implant Listeners. Presented at the 2013 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July
73. Newman, R. S., Chatterjee, M., Morini, G.\*\*\*, and Nasuta, M.\*\* (2013) Toddlers' comprehension of noise-vocoded speech and sine-wave analogs to speech. Presented at the 1st International Congress on Acoustics, 165th Meeting of the Acoustical Society of America, in Montreal, Canada, May
74. Peng, S.-C., Lu, H.-P., Deroche, M.\*, Lu, N., Lin, Y.-S., and Chatterjee, M. (2013) Trading Fundamental Frequency for Duration Cues in Lexical Tone Recognition by Taiwanese Children with Cochlear Implants. Presented at the 2013 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July
75. Winn, M.\*\*\*, Rhone, A.\*\*\*, Chatterjee, M., and Idsardi, W. (2013) Auditory and visual adaptation in cochlear implant speech perception. Presented at the 2013 American Auditory Society Scientific and Technology Meeting, Scottsdale, AZ, March
76. Zion, D.\*\*\*, and Chatterjee, M. (2013) Recognition of child-directed emotional speech by normally hearing listeners. Presented at the 2013 American Auditory Society Scientific and Technology Meeting (AAS), Scottsdale, AZ, March
77. Deroche, M.\*, Lu, H. P., Christensen, J., Limb, C., Lin, Y. S., and Chatterjee, M. (2014) Deficits in Pitch Sensitivity by Cochlear-Implanted Children Speaking English or Mandarin. *Oral* Presentation at the 2014 MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA.
78. Chatterjee, M., Zion, D.\*\*\*, Deroche, M.\*, Burianek, B.\*\*\*, Goren, A.\*\*\*, and Limb, C. (2014) Voice Emotion Recognition by Cochlear-Implanted and Normally-Hearing Children Poster Presentation at the 2014 MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA.
79. Goren, A. P.\*\*\*, Burianek, B.\*\*\*, Peng, S.C., Lu, N., Christensen, J., and Chatterjee, M. (2014) Acoustic Cue Integration in Question-Statement Identification in Children with Normal Hearing and Cochlear Implants. T35 Poster Presentation at the 2014 meeting of the American Auditory Society, Scottsdale, AZ
80. Newman, R., Morini, G.\*\*\*, and Chatterjee, M. (2014) Development in the ability to comprehend degraded speech signals. Presented at the 2014 International Conference on Infant Studies, Berlin, Germany.
81. Chatterjee, M., and Kulkarni, A. M. (2015) AM rate discrimination by cochlear implant listeners in on- and off-channel, modulated masking. Poster presentation at the 2015 MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
82. Tinnemore, A.\*\*\*, and Chatterjee, M. (2015) The incomplete role of the pitch contour in voice emotion transmission. Poster presentation at the 2015 MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
83. Hozan, M.\*\*\*, and Chatterjee, M. (2015) Modeling an electrically stimulated human cochlear neuron to simulate the effects of nerve damage. Poster presentation at the 2015 MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
84. Tinnemore, A.\*\*\*, and Chatterjee, M. (2015) Voice emotion recognition: Developmental age and spectral resolution. T35 Poster presentation at the 2015 meeting of the American Auditory Society, Scottsdale, AZ
85. Bologna, W. J.\*\*\*, Chatterjee, M., and Dubno, J. R. (2015) Phonemic restoration with envelope and periodicity cues: effects of age and competing talkers. Poster Presentation at the 2015 Spring meeting of the Acoustical Society of America, Pittsburgh, PA. [Best student paper award]
86. Chatterjee, M., Kulkarni, A. M., Christensen, J. A., Deroche. M. L., and Limb, C. J. (2015) Voice emotion



recognition and production by individuals with normal hearing and with cochlear implants. Poster Presentation at the 2015 Spring meeting of the Acoustical Society of America, Pittsburgh, PA.

87. Lu, H. P., Lin, Y. S, Peng, S. C., Kulkarni, A. M., and Chatterjee, M. (2015) Voice emotion recognition by Mandarin-speaking listeners with cochlear implants and their normally-hearing peers. Poster presentation at the 2015 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
88. Cannon, S.\*\*and Chatterjee, M. (2016) Voice emotion recognition by children with mild to moderate hearing loss. Poster presentation at the 2016 Conference of the American Association of Audiology, Scottsdale, AZ
89. Chatterjee, M., Christensen, J. A., Kulkarni, A. M., Deroche, M. L., Damm, S.\*\*, Bosen, A.K.\*, Hozan, M.\*\* , and Limb, C.J. (2016) Voice emotion communication by children with cochlear implants. Poster presentation at the 2016 midwinter meeting of the Association for Research in Otolaryngology, San Diego, CA.
90. Kulkarni, A.M., and Chatterjee, M. (2016) Forward modulation interference in cochlear implant listeners. Poster presentation at the 2016 midwinter meeting of the Association for Research in Otolaryngology, San Diego, CA.
91. Galvin, J., Oba, S., Başkent, D., Chatterjee, M., and Fu, Q.-J., Envelope Interactions in Multi-channel Amplitude Modulation Frequency Discrimination by Cochlear Implant Users. Poster Presentation at the 2016, 39<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA.
92. Bosen, A. K.\* , and Chatterjee, M. (2016) Band Importance Functions of Listeners with Cochlear Implants. Poster presentation at the 2016 Spring meeting of the Acoustical Society of America, Salt Lake City, UT.
93. Deroche, M. L., Kulkarni, A. M., Christensen, J.A., Limb, C. J., and Chatterjee, M. (2016) Deficits in the sensitivity to pitch sweeps by school-aged children wearing cochlear implants. Poster presentation at the 2016 Spring meeting of the Acoustical Society of America, Salt Lake City, UT.
94. Bologna, W. J.\*\* , Chatterjee, M., and Dubno, J. R. (2016) Interrupted speech with competing talkers: Benefits of temporal envelope and periodicity cues for younger and older adults (2016). Oral Presentation at the 2016 Spring meeting of the Acoustical Society of America, Salt Lake City, UT
95. Bosen, A. K.\* , and Chatterjee, M. (2016) Identifying the Electrical Cues Underlying Acoustic Spectral Contrast Detection. CI CRASH University of Wisconsin, Madison, WI.
96. Damm, S.\*\* , and Chatterjee, M. (2016) How Identifiable Are Voice Emotions Produced by Children With Cochlear Implants? Poster presentation at the 2016 ASHA Convention, Philadelphia, PA
97. Srinivasan, A. G., Hozan, M.\*\* , and Chatterjee, M. (2017) The Effect of Demyelination on Encoding of Amplitude-Modulated Pulse Trains. Poster presentation at the 2017, 40<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
98. Bosen, A.K.\* , and Chatterjee, M. (2017) Electrical Cues Underlying Acoustic Spectral Tilt Detection in Listeners With Cochlear Implants. Poster presentation at the 2017, 40<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
99. Chatterjee, M., and Kulkarni, A. (2017) Modulation Interference in Forward and Contralateral Masking In Cochlear Implants. Oral presentation at the 2017, 40<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
100. Sis, J.\*\* , Damm, S.\*\* , and Chatterjee, M. (2017) Voice Emotion Production by Children with Cochlear Implants. Presented at the 2017 American Auditory Society Scientific and Technology Meeting (AAS), Scottsdale, AZ.
101. Bosen, A. K.\* , Kulkarni, A. M., and Chatterjee M. (2017) Amplitude Modulation Sensitivity And Increment/Decrement Detection In Cochlear Implants. Poster presented at the 2017 Conference on Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
102. Chatterjee, M., and Kulkarni, A.M. (2017) Modulation Detection Interference In Cochlear Implant Listeners Within A Forward Masking Paradigm. Poster presented at the 2017 Conference on Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.

103. Sis, J. L.\*\*\*, Damm, S.A.\*\*\*, and Chatterjee, M. (2017) Deficits In Voice Emotion Production By Children With Cochlear Implants. Poster presented at the 2017 Conference on Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
104. Lu, H. P., Peng, S. C., Deroche, M.L.D., Chatterjee, M., Lin, Y. S. (2017) Voice Emotion Recognition By Mandarin-Speaking Pediatric Cochlear Implant Users. Poster presented at the 2017 Conference on Implantable Auditory Prostheses (CIAP), Lake Tahoe, CA.
105. Cannon, S.\*(2017) Aging And Voice Emotion Recognition With Spectrally-Degraded Speech. Oral presentation at the 2017 CI CRASH Miniconference, University of Wisconsin, Madison, Wisconsin.
106. Sis, J. L.\*\*\*, Christensen, J. A., Kulkarni, A. M., Cannon, S.\*\*\*, and Chatterjee, M. (2018) Age- and Hearing-Loss-Related Deficits in Voice Emotion Recognition. Poster presentation at the 2018, 41<sup>st</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA
107. Chatterjee, M., and Kulkarni, A. M. (2018) Ipsilateral and Contralateral Modulation Masking/ Modulation Interference with Speech Temporal Envelopes With Direct Electrical Stimulation. Poster presentation at the 2018, 41<sup>st</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA
108. Barrett, K. C.\*, Caldwell, M., Jiradejvong, P., Kulkarni, A. M., Chatterjee, M., and Limb, C. (2018) Voice Emotion Recognition to Child-directed and Adult-Directed Speech in Pediatric Cochlear Implant Users. Poster presentation at the 2018, 41<sup>st</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA
109. Cannon, S.\*, and Chatterjee M. (2018) Aging and Voice Emotion Recognition with Spectrally-Degraded Speech. Poster presentation at the 2018, 41<sup>st</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, CA
110. Cannon, S. \*, and Chatterjee, M. (2018) Effects of Aging on Vocal Emotion Recognition with Spectrally Degraded Speech. Presented at the 2017 American Auditory Society Scientific and Technology Meeting (AAS), Scottsdale, AZ.
111. Sis, J.\*\*\*, and Chatterjee, M. (2018) Children With Cochlear Implants Produce Smaller Acoustic Contrasts Between Emotions. Presented at the 2017 American Auditory Society Scientific and Technology Meeting (AAS), Scottsdale, AZ.
112. Cannon, S. \*, Christensen, J.A., and Kulkarni, A.M., Sis, J.\*\*\*, and Chatterjee, M. (2018). Age-related changes in vocal emotion recognition. Presented at the 2018 National Black Association for Speech-Language and Hearing Convention (NBASLH), Washington, DC
113. Chatterjee M., Kulkarni A.M. (2018) Modulation interference in cochlear implants. Poster presentation, 175th meeting of the Acoustical Society of America, Minneapolis, MN
114. Mulak K. E., Erickson L.C., Shroads E., Chatterjee M., Frick J., and Newman R. S. (2018) Distractability during play predicts 17-month-olds' familiar word identification in noise. Poster presentation, The International Congress of Infant Studies, Philadelphia, PA
115. Cannon S. \*, Kulkarni, A. M., and Chatterjee M (2018). Effects of Talker Variability on Voice Emotion Recognition. Oral Presentation, 9th Annual Midwest Mini-Conference on Cochlear Implants, Madison, WI.
116. Cannon S. \*, and Chatterjee M. (2019) Effects of age on voice emotion recognition in cochlear implant users and normally hearing adults listening to CI-simulated speech. Poster presentation, 42<sup>nd</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
117. Wheeler H.\*\*\*, Tinnemore A.R., and Chatterjee M. (2019) The contribution of the voice pitch contour to emotion recognition. Poster presentation, 42<sup>nd</sup> MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
118. Chatterjee M., and Richter M.\*\* (10/18/2019) "Cochlear implant users' reliance on prosodic vs. lexical-semantic cues for emotion identification", Oral presentation at the CI CRASH conference, University of Madison, WI.

119. Chatterjee M., and Richter M.\*\* (2020) Compared to normally-hearing listeners, cochlear implant users rely more on lexical-semantic than on prosodic cues for speech emotion identification. Poster presentation, 43<sup>rd</sup> MidWinter Meeting of the Association for Research in Otolaryngology, San Jose, CA
120. Richter M.\*\*, and Chatterjee M. (2020) Prosodic and semantic cues for emotion recognition with cochlear implants. T35 poster presentation, American Auditory Society meeting, Scottsdale, AZ.
121. Chatterjee M. and Kulkarni AM (2021) Acoustic cue-weighting for vocal emotion perception with normal hearing and cochlear implants. Oral presentation at the 44<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology (Virtual Meeting)
122. Chatterjee M and Kulkarni AM (2021) Cue-weighting for emotional prosody identification by CI users: a comparison of soundbooth, quiet room and remote in-home testing methods. Conference on Implantable Auditory Prostheses (Virtual Meeting).
123. Kulkarni AM, Cannon SC and Chatterjee M (2022) Age related changes in adult postlingually deaf cochlear implant users' utilization of acoustic cues for vocal emotion identification. Poster presentation, 45<sup>th</sup> MidWinter Meeting of the Association for Research in Otolaryngology (Virtual Meeting).

## **SERVICE**

### **A. Service to professional organizations**

- 2000: Local committee member in charge of registration, Fall 2000 meeting of the Acoustical Society of America.
- 2001- 2004: Elected member, Technical Committee, Psychological and Physiological Acoustics, Acoustical Society of America.
- 2002-2003: Member, Committee on ANSI standard on loudness (Chair: Rhona Hellman).
- 2003-2005: Invited member, Steering Committee, 2005 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.
- 2005: Chair, Committee on Young Investigator Awards, Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.
- 2006-2007: Invited member, Steering Committee, 2007 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA.
- 2006-2009: Nominated to ARO Publications Committee.
- 2009: Member, Technical Program Organization Committee, Acoustical Society of America
- 2010: Elected to Psychophysics and Physiology Technical Committee, Acoustical Society of America
- 2009-2011: Invited member, Steering committee, 2011 Conference on Implantable Auditory Prostheses, Asilomar, Pacific Grove, CA
- 2011-2013: Elected Scientific Chair, 2013 Conference on Implantable Auditory Prostheses.
- 2013: Invited Mentor in ASHA Pathways Program
- 2014-2015: Invited member, Steering Committee, 2015 Conference on Implantable Auditory Prostheses.
- 2014-2015: Invited judge, Poster Blitz, ARO 2014 and ARO 2015
- 2017: Elected to Psychophysics and Physiology Technical Committee, Acoustical Society of America
- 2017-2019: Member, ARO Program Committee
- 2021 – present: Founder, BIPOC-CSD Network (A grassroots network to provide a safe space for networking and resource-sharing among Black, Indigenous and other Persons of Color working in the broad area of Communication Sciences and Disorders).

### **B. Reviewing activities for agencies**

1. Grant reviewer, National Institutes of Health (NIDCD):
  - i.* NIDCD Special Emphasis Panel, Program Project grant, 1999
  - ii.* NIDCD Special Emphasis Panel ZDC1 SRB-A (40) for R03 reviews, April 2004
  - iii.* NIDCD Special Emphasis Panel ZDC1 SRB-A (40) for R03 reviews, July 2004
  - iv.* NIDCD Special Emphasis Panel to review RFA-DC-04-001 applications, May, 2005
  - v.* NIDCD Special Emphasis Panel to review R01 applications, July, 2005
  - vi.* NIDCD Special Emphasis Panel/Scientific Review Group 2006/01 ZDC1 SRB-R (31), October, 2005
  - vii.* NIDCD Special Emphasis Panel/Scientific Review Group 2007/01 ZDC1 SRB-S (02), September, 2006
  - viii.* NIDCD SBIR: EAR Study Section ZRG1 IFCN-G 10, March, 2007
  - ix.* NIDCD Contract Proposal Review Panel ZDC1 SRB O15, May, 2007
  - x.* NIH SBIR: ETTN Study Section ZRG1 ETTN E 10, October 22, 2008
  - xi.* NIDCD Scientific Review Group ZDC1 SRB-S 02 (Training Grant), January 09, 2009.
  - xii.* NIDCD CDRC Study Section, June 2009
  - xiii.* NIDCD CDRC Special Emphasis Panel ZDC1 SRB-L (41), June 22, 2010
  - xiv.* NIDCD Translational PAR ZDC1 SRB-Q (63), July 8, 2010
  - xv.* NIDCD CDRC Study Section, June 15-16, 2011
  - xvi.* NIDCD CDRC Study Section, October 20-21, 2011
  - xvii.* Permanent Member, NIH CDRC Panel, 2012 – 2016.
  - xviii.* Ad hoc reviewer, NIH CDRC Panel, 2016 October, 2017 February, 2017 June, 2017 October, 2018 February
  - xix.* Ad hoc reviewer, NIH AUD Study Section, October 2020, June 2020
2. Reviewer for Wellcome Trust [UK] grant applications, 2001, 2006
3. Reviewer for Medical Research Council [UK] grant application, 2008
4. Reviewer for the Neuroscience and Mental Health Board (NMHB), Scientific (QQR) review of the MRC Cognition and Brain Sciences Unit (CBSU), Cambridge, UK.
5. Reviewer for Action for Hearing Loss, UK [2018]

**C. Other committees, commissions, panels, etc.**

1. Panelist and presenter, special session on loudness and noise-induced hearing loss, Audio Engineering Society Convention, San Francisco 1997 (organized by House Ear Institute's "Sound Partners" outreach program)
2. Invited presentation on Auditory Processing, Audio Engineering Society LA chapter meeting, 1999 (organized by House Ear Institute's "Sound Partners" outreach program)
3. External reviewer, Baker Fund grant proposal, Ohio University, Athens, Ohio, Feb-March 2005.
4. Dissertation committee member for PhD committees at University of Nebraska-Lincoln, University of Maryland, University of Iowa, University of North Carolina Chapel Hill, University of Groningen, Danish Technical University, University of Copenhagen, University of Melbourne

**D. External activities not listed above:**

1. External reviewer for promotion and tenure, Catholic University of Leuven, Netherlands, 2000.
2. (Volunteer) project consultant, Low-Cost Cochlear Implant Project, Naval Science and Technology Labs, Visakhapatnam, India, 2006-2009.
3. Collaborator on EPSRC grant titled “Multiplicative and fractal noise coding for cochlear implants”, PIs: Dr. Robert P. Morse, Aston University and Dr. Nigel Stocks, University of Warwick, UK, 2005-2008.

4. External reviewer for the University of Pretoria, application for rating by the National Research Foundation of South Africa, July 2006, November 2015
5. External reviewer for promotion and tenure, University of Groningen, Groningen, the Netherlands, 2011.
6. External MS dissertation committee member, Department of Electrical Engineering, University of Pretoria, South Africa, 2011 (Faculty Advisor: Johan Hanekom).
7. External reviewer for Habilitation, University of Vienna, 2013.
8. External examiner, Ph.D. dissertation, University of Copenhagen, Denmark, 2014
9. External examiner, PhD dissertation, University of Melbourne, 2014
10. External examiner, PhD dissertation, University of Melbourne, 2014
11. External reviewer for promotion and tenure, Johns Hopkins University, 2014
12. External reviewer for promotion and tenure, Ohio University, 2014
13. External reviewer for promotion and tenure, University of Vienna, 2014
14. External reviewer for promotion and tenure, University of California, Davis, CA, 2015
15. External reviewer for promotion and tenure, Oregon Health and Science University, Portland, OR, 2016
16. External reviewer for faculty promotion, University of North Carolina, 2016
17. External examiner, MS dissertation, University of Pretoria, South Africa, 2016
18. External examiner, MS dissertation, University of Pretoria, South Africa, 2017
19. External examiner, PhD dissertation, Technical University of Denmark, 2018
20. PhD committee member, University of Iowa, 2018
21. External reviewer for promotion and tenure, Ohio University, Athens, OH, 2018
22. External examiner for Habilitation, University de Lyon, Lyon France, 2021

## **E. Journal Editorship/Reviewing**

1. Reviewer for: *Journal of the Acoustical Society of America*, *Hearing Research*, *Ear and Hearing*, *Journal of the Association for Research in Otolaryngology (JARO)*, *Proceedings of the National Academy of Sciences*, *Perception*, *Med. and Biol. Eng. and Computing*, *SAIEEE*, *Journal of Neurophysiology*, *Journal of Rehabilitation Research and Development*, *Audiology and Neurotology*, *Trends in Hearing*, *Speech Communication*, *Journal of Speech, Language and Hearing Research (JSLHR)*
2. Assistant Editor, *Journal of the American Academy of Audiology*, 2002-2005
3. Member, Editorial Board, *Trends in Hearing*, 2009 - Present
4. Editor at Large/Associate Editor, *International Journal of Audiology*, 2009-2010
5. Guest Editor, Cochlear Implants Section, *Ear and Hearing*, May 2010 – Dec 2010
6. Section Editor, Cochlear Implants Section, *Ear and Hearing*, 2011 – 2012
7. Guest Editor, *Trends in Hearing*, 2014.
8. Member Editorial Board, *Frontiers in Auditory Cognitive Neuroscience*, 2015-present (Review Editor)
9. Editor, *American Journal of Audiology*, 2017 – 2019.
10. Associate Editor, *J. Acoust. Soc. Am. Express Letters*, 2019- present.
11. Associate Editor, *J. Assoc. Res. Otolaryngol.*, 2021 – present
12. Associate Editor, *Frontiers Aud. Cog. Neurosc.*, 2021 – 2022.

## **F. Conference Organization**

1. Organizer, Workshop titled “Cochlear Implants: Perception, Physiology, and Models”, Association for Research in Otolaryngology Mid-Winter meeting, 2003.
2. (Elected) Scientific Chair, Conference on Implantable Auditory Prostheses, 2013
3. Organizer, Micro-Conference on Cochlear Implants, Boys Town National Research Hospital, 8/2015.
4. Organizer, Auditory Jam, Boys Town National Research Hospital, 6/2016

## **TEACHING (EXCLUDING OCCASIONAL GUEST LECTURES)**

(At the University of Maryland, College Park, MD)

### **HESP 407 Bases of Hearing Science**

Spring 2005 (enrollment 46)  
Spring 2007 (enrollment 40)  
Spring 2008 (enrollment 51)  
Spring 2009 (enrollment 38)

### **HESP 722 Psychoacoustics**

Fall 2005 (enrollment 7)  
Fall 2006 (enrollment 8)  
Fall 2007 (enrollment 8)  
Fall 2008 (enrollment 8)  
Fall 2009 (enrollment 6)  
Fall 2010 (enrollment 5)  
Fall 2011 (enrollment 6)

### **HESP 848 Seminar in Cochlear Implants**

Fall 2005 (enrollment 7)  
Fall 2006 (enrollment 4)  
Fall 2007 (enrollment 2)  
Fall 2008 (enrollment 2)  
Fall 2010 (enrollment 6)  
Fall 2011 (enrollment 5)

### **HESP 639I/NACS 728I Seminar in Translational Neuroscience**

Spring 2010 (enrollment 5)

## **MENTORING**

List excludes a number of undergraduates and one high-school student trained by the PI.

### **A. Post-doctoral trainees:**

1. Anastasios Sarampalis, 2003 – 2004. (Presently Lecturer, U. Groningen, NL)
2. Shu-Chen Peng, 2005 – 2007 (Presently Senior Lead Scientific Reviewer, US FDA)
3. Mickael Deroche, 2010 – 2014 (Presently Research Associate, McGill University, Montreal, CA; Assistant Professor, Concordia University, est. 2019)
4. Daniel B. Hertz, 2010 – 2011 (Presently Tutor, Mark's Education, MD)
5. Rachel Scheperley 2014- 2015. [Co-mentor] (Presently faculty, Montclair St University, NJ)
6. Benjamin Kirby 2014 – 2016. [Co-mentor] (Presently faculty, Illinois State University, Normal, IL)
7. Adam Bosen 2015 – 2017. (Presently Director, Auditory Perceptual Encoding Lab, BTNRH)
8. Amanda Rodriguez 2016- 2018 [Co-mentor; presently Asst Professor, University of Nebraska, Lincoln, NE]
9. Shauntelle Cannon 2017-2019 [post-AuD post-doc research trainee, to start PhD program at Ohio State University in Fall 2020]

**B. AuD-PhD or PhD students advised (all at UMD)**

1. Kara C. Schwartz, 2005 – 2010 (AuD/PhD, graduated 2010) [Presently: Clinical Assistant Professor, Kresge Hearing Research Institute, University of Michigan, Ann Arbor]
2. Matthew B. Winn, 2008 – 2011 (AuD/PhD, graduated 2011) [Presently Assistant Professor, University of Minnesota]
3. William Bologna, 2010 – 2012 (AuD/PhD: PhD mentor Dr. Judy Dubno) [Presently post-doc, NCRAR, Portland]
4. Danielle Zion 2010 – 2012 (AuD) [Presently Research Audiologist, Walter Reed Medical Center, Bethesda, MD]
5. Ting Zhang (Co-advisor) (PhD, graduated 2008). [Presently Scientific Reviewer, US-FDA, Silver Spring, MD]

**C. AuD students advised (all at UMD)**

1. Lauren Wawroski (graduated 2008)
2. Jian Yu (graduated 2009)
3. Kelly Hoffard (graduated 2009)
4. Marquitta Merkison (co-advisor) (graduated 2009)
5. Monica Dade (graduated 2009)
6. Bria Johnson (co-advisor) graduated 2009
7. Fabiola Peredo (graduated 2011)
8. Cherish Oberzut (graduated 2012)
9. Viral Tejani (graduated 2013)
10. Alison Goren (graduated 2015)

**D. AuD student trainees mentored at BTNRH under NIH T35 grant program**

1. Danielle Zion (U of MD): Summer 2012
2. Alison P Goren (U of MD): Summer 2013
3. Anna Tinnemore (U of Arizona): Summer 2014 (PhD student at UMD 6/2017 onward)
4. Shauntelle Cannon (U of NC): Summer 2015
5. Harley Wheeler (James Madison U): Summer 2018
6. Margaret Richter (U of NC): Summer 2019
7. Alyssa Wciorka (Washington U): Summer 2020

**E. Other students advised (while at BTNRH)**

1. Mohsen Hozan, Biological Systems Engineering Department, UNL (MS thesis) *Currently PhD student at UNL*
2. Shivani Gajre, College of Engineering and Human Sciences, UNL (undergraduate research) *Currently graduate student at Northwestern University*
3. Rizwan Siddiqui, Biology, Creighton University (undergraduate research) *Currently medical student at UNMC*

**F. Junior faculty**

1. Kristen Janky, Director, Clinical Vestibular Laboratory, BTNRH: 2014 – present

2. Shuman He, Director, Human Electrophysiology Laboratory, BTNRH: 2015 – 2017.
3. Kaylah Lalonde, Director, Audiovisual Speech Processing Laboratory, BTNRH: 2017—present

## **INTERNAL SERVICE**

### While at House Ear Institute:

- Post-doc Policy Committee
- Employee Recognition Committee
- Institutional Animal Care and Use Committee
- Initiator and coordinator, Dept. of Auditory Implants and Perception Journal Group

### While at the University of Maryland:

- Computer Policy Advisory Committee, College of Behavioral and Social Sciences
- Coordinator (and initiator), Hearing and Speech Sciences Seminar Series
- Coordinator, Comprehensive Exams in Audiology, Dept. of Hearing and Speech Sciences
- Dissertation committee member, numerous AuD, MS and PhD committees (Hearing and Speech Sciences, Psychology, Electrical Engineering departments).

### While at Boys Town National Research Hospital (BTNRH):

- Policy Drafting Committee, BTNRH, 2013
- Review and Promotions Committee, BTNRH, 2014-2020 (Chair)
- Research Training Committee, BTNRH, 2014-present (Chair from 7/2020 onwards)
- Center for Perception and Communication in Children grant Executive Committee, BTNRH, 2014-present
- Center for Perception and Communication in Children grant, BTNRH, Director, Technology Core, 2018-2019
- Mock Study Section grant review panels, 2019, 2020, 2021