Curriculum Vitae

MATTHEW B. WINN
Speech-Language-Hearing Sciences
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PROFESSIONAL SUMMARY

My research is influenced by my clinical training in audiology as well as my training in speech science and linguistics. My work focuses on the ways in which hearing impairment affects speech communication, especially the ways that are not captured by conventional clinical testing. The main contributions that define my identity in the field are my work on listening effort (particularly the details of the time course of effort and how it interacts with language processing), detailed measurements and manipulations of speech acoustics, and helping fellow scientists acquire effective communication skills. I have focused my research on people with cochlear implants, which are devices used to restore a sensation of hearing in those who have severe to profound deafness. Additionally, I have developed open-source solutions for speech stimulus generation for experiments involving phonetic categorization and cue weighting, as well as analysis tools for pupillometry (a tool for measuring cognitive effort). I have produced publicly available video materials for introductory classes and research tutorials as part of my mission to increase visibility of the field and to increase access to quality research tools.

Education

PhD, University of Maryland, Hearing and Speech Sciences	2011
Advisor: Monita Chatterjee	
Au.D. (Doctor of Audiology), University of Maryland	2010
BA, University of Delaware, Psychology & Philosophy	2005

Fellowships, Residencies, and Visiting Engagements

Postdoctoral fellow
University of Wisconsin-Madison Waisman Center — April 2012 – August 2015

Audiology Extern
Veterans Affairs Medical Center — July 2009 – June 2010

Academic Appointments

University of Minnesota, Twin Cities Campus
Department of Speech-Language-Hearing Sciences
Associate Professor — Sept 2021 - present
Assistant Professor — August 2018 – August 2021

University of Washington, Seattle campus
Department of Speech & Hearing Sciences — August 2015 – August 2018
Assistant Professor

Current Membership in Professional Organizations

Association for Research in Otolaryngology	2012 – present
American Auditory Society	2009 – present
CIAP Mentorship program (fostering communication between scientists and clinicians/patients)	2017 – present
Association for Research in Otolaryngology mentorship program (clinician-scientist group)	2018 – 2020
Association for Research in Otolaryngology mentorship program (science communication group)	2020 - present
Technical council on Psychological and Physiological Acoustics, Acoustical Society of America	2015 – 2019
Technical council on Speech Communication, Acoustical Society of America	2019 - present

HONORS AND RECOGNITION

	Date
Pre-Doctoral Training Grant (Univ. of Maryland Center for Comparative Evolution and Biology of Hearing)	2010; 2011
Distinguished Teaching Award (Univ. of Maryland Center for Teaching Excellence)	2010; 2011
Dean's Scholar Mentorship Award (Univ. of Maryland College of Behavioral and Social Sciences)	2011
Charles N. Ford Best translational / Clinical Poster (Univ. of Wisconsin Dept. of Surgery)	2014
Second place, Poster Pitch Blitz (Association for Research in Otolaryngology)	2014
Young Investigator Award (8th Int'l Symposium on Objective Measures in Auditory Implants, Toronto)	2014
Young Investigator Travel Award (Association for Research in Otolaryngology)	2015
Scholar of the College, University of Minnesota College of Liberal Arts	2021 - 2024

External Sources

	Date Awarded
Core Member of the Oticon Medical *Brain Hearing Network*	2019

Honors Awarded to Student/Trainee

National Institutes of Health National Research Dissertation Fellowship for Au.D. Audiologists (F32) Awarded to Steven Gianakas (PhD student)	2020
National Science Foundation NRT Graduate Training Program in Sensory Science: Optimizing the Information Available for Mind and Brain.	

Awarded to Michael Smith (PhD student)
Awarded to Harley Wheeler (PhD student) 2021-2022
2021-2022

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants, Contracts, Awards: External Sources

CURRENT
Award: NIH-NIDCD R01 DC017114 "Listening effort in cochlear implant users"
Principal Investigator: Matthew B. Winn
Team members on all associated projects:
Status: Funded, ongoing
Sponsoring Organization: National Institutes of Health / NIDCD
Major Goals: This study explores the effort of listening to speech and how it is impacted by the use of a cochlear implant. The project specifically looks at the effortful cost of mentally repairing words that were misperceived, and the timeline of recovering from that mental repair process.
Award Dates: August 2018 – July 2023
Funded Amount: $1,837,970
Direct Amount: $1,250,000
Indirect Amount: $587,970

Award: NSF FAIN 2146885 "Determinants of perceptual learning for speech perception"
Principal Investigator: Rachel Theodore; Co-PI: Matthew Winn
*Major Goals: This study explores the ways that listeners adapt to an unfamiliar voice by incorporating new evidence from the talker's voice, how they use existing knowledge about the speech sounds in their language, and how they learn what to ignore.
Sponsoring Organization: National Science Foundation
Award Dates: 06/01/2022 – 05/31/2025
Total Award Amount (including Indirect Costs): $360,987

Award: NIH-NIDCD R01 DC020303 "Perception of speech in context by listeners with healthy and impaired hearing"
Principal Investigators: Christian E. Stilp and Matthew B. Winn
Status: Funded, ongoing
Sponsoring Organization: National Institutes of Health / NIDCD
Major Goals: This project investigates the perception of speech in the context of surrounding sounds for the normal auditory system, and the effects of background noise, hearing loss, and cochlear implant processing on speech perception.
Award Dates: 9/2022 – 8/2027
Funded Amount: $ 1,455,987
Direct Amount: $ 1,125,112
Indirect Amount: $ 330,875

COMPLETED
Award: NIH-NIDCD R21 DC018070 "Race, ethnicity, and speech intelligibility in normal hearing

and hearing impairment"
Principal Investigator: Benjamin Munson
Team members on all associated projects:
Status: Funded, ongoing
Sponsoring Organization: National Institutes of Health / NIDCD
Award Dates: July 2019 – June 2021 (NCE)
Funded Amount: $389,318
Direct Amount: $250,000
Indirect Amount: $139,318
My Role: Consultant, 2%

Award: NIH-NIDCD R03 DC014309 "Measuring listening effort and spectral resolution in cochlear implant patients"
Principal Investigator: **Matthew B. Winn (myself)**
Team members on all associated projects:
Status: Funded, ongoing
Sponsoring Organization: National Institutes of Health / NIDCD
Award Dates: January 2016 – August 2019
Funded Amount: $454,796
Direct Amount: $300,000
Indirect Amount: $154,796

Publications

Asterisk(*) - indicates student author

Peer-reviewed publications (34; 33 since terminal degree)

1. **Winn, M.B.** & Idsardi, W.J. (2008). Musical evidence regarding trochaic inversion. *Language and Literature*, 17 (4), 335-349.

2. **Winn, M.B.**, Chatterjee, M., & Idsardi, W.J. (2012). The use of acoustic cues for phonetic identification: Effects of spectral degradation and electric hearing. *Journal of the Acoustical Society of America*, 131, 1465-1479. doi: 10.1121/1.3672705

3. **Winn, M.B.**, Chatterjee, M., & Idsardi, W.J. (2013). The roles of voice onset time and F0 in stop consonant voicing perception: Effects of masking noise and low-pass filtering. *Journal of Speech, Language and Hearing Research,* 56, 1097-1107. doi: 10.1044/1092-4388(2012/12-0086)

4. **Winn, M.B.**, Rhone, A.E., Chatterjee, M., & Idsardi, W.J. (2013). Auditory and visual context effects in phonetic perception by normal-hearing listeners and listeners with cochlear implants. *Frontiers in Psychology: Auditory Cognitive Neuroscience*, 4, article 824, 1-13. doi: 10.3389/fpsyg.2013.00824

5. Chrabaszcz, A.V., **Winn, M.B.**, Lin, C.Y., & Idsardi, W.J. (2014). Acoustic Cues to Perception of Word Stress by English, Mandarin and Russian Speakers. *Journal of Speech, Language, and Hearing Research*, 57, 1468-1479. doi:10.1044/2014_JSLHR-L-13-0279

6. **Winn, M.B.**, Edwards, J.R., and Litovsky, R.Y. (2015). The impact of auditory spectral resolution on listening effort revealed by pupil dilation. *Ear and Hearing.* 36(4):e153-65. doi: 10.1097/AUD.0000000000000145

7. **Winn, M.B.** & Litovsky, R.Y. (2015) Using speech sounds to test functional spectral resolution in listeners with cochlear implants. *Journal of the Acoustical Society of America*, 137, 1430-1442. doi: 10.1121/1.4908308

8. Stilp, C.E., Anderson, P.W., **Winn, M.B.** (2015) Predicting contrast effects following reliable spectral properties in speech perception. *Journal of the Acoustical Society of America, 137,* 3466-3476. doi: 10.1121/1.4921600

9. * Ehlers, E., Kan, A., **Winn**, M.B., Stoelb, C., Litovsky, R. (2016). Binaural hearing in children using Gaussian enveloped and transposed tones. *Journal of the Acoustical Society of America, 139,* 1724-1733. doi: 10.1121/1.4945588

10. **Winn, M.B.**, Won, J.H., Moon, I.J. (2016). Assessment of spectral and temporal resolution in cochlear implant users using psychoacoustic discrimination and speech cue categorization. *Ear and Hearing,* 37(6):e377–e390. doi: 10.1097/AUD.0000000000000328

11. Kong, Y.-Y., **Winn, M.B.**, Poellmann, K., Donaldson, G. (2016) Discriminability and perceptual saliency of temporal and spectral cues for final fricative consonant voicing in simulated cochlear-implant and bimodal hearing. *Trends in Hearing, 20, 1-15.* doi: 10.1177/2331216516652145

12. Reidy, P., Kristensen, K., **Winn**, **M.B.**, Litovsky, L., Edwards, J. (2016). The acoustics of word-initial fricatives and their effect on word-level intelligibility in children with bilateral cochlear implants. *Ear and Hearing.* doi: 10.1097/AUD.0000000000000349

13. **Winn, M.B.** (2016). Rapid release from listening effort resulting from semantic context, and effects of spectral degradation and cochlear implants. *Trends in Hearing*, 20, 1-17. doi: 10.1177/2331216516669723

14. *DiNino, M., Wright, R., **Winn**, **M.B.,** Bierer, J.A. (2016). Vowel and consonant confusion patterns resulting from spectral manipulations in vocoded stimuli designed to replicate poor electrode-neuron interfaces in cochlear implants. *Journal of the Acoustical Society of America*, 140(6), 4404–4418.

15. * Kapnoula, E., **Winn**, M.B., Kong, E.J., Edwards, J., McMurray, B. (2017). Evaluating the sources and functions of gradiency in phoneme categorization: An individual differences approach. *Journal of Experimental Psychology: Human Perception and Performance*, 43, 1594-1611. doi: 10.1037/xhp0000410

16. **Winn, M.B.**, Wendt, D., Koelewijn, T., Kuchinsky, S. (2018). Best practices in using pupillometry to measure listening effort: an introduction for those who want to get started**.** *Trends in Hearing*, 22, 1-32. doi: 10.1177/2331216518800869

17. **Winn, M.B.**, Moore, A. (2018). Pupillometry reveals that context benefit in speech perception can be disrupted by later-occurring sounds, especially in listeners with cochlear implants. *Trends in Hearing*, 22, 1-22. doi: 10.1177/2331216518808962

18. **Winn, M.B.**, Kan, A., Litovsky, R. (2019). Temporal dynamics and uncertainty in binaural hearing revealed by anticipatory eye movements. *Journal of the Acoustical Society of America*, 145, 676–691.

19. *Gianakas, S., & **Winn, M.B.** (2019). Lexical bias in word recognition by cochlear implant listeners. *Journal of the Acoustical Society of America*, 146, 3373-3383.

20. **Winn, M.B.** (2020). Accommodation of gender-related phonetic differences by listeners with cochlear implants and in a variety of vocoder simulations. *Journal of the Acoustical Society of America*, 147, 174-190.

21. Geller, J., **Winn, M.B.**, Mahr, T., Mirman, D. (2020). GazeR: A package for processing gaze position and pupil size data. *Behavior Research Methods*, 52, 2232–2255 https://doi.org/10.3758/s13428-020-01374-8

22. **Winn, M.B.** (2020). Manipulation of voice onset time in speech stimuli: A tutorial and flexible Praat script. *Journal of the Acoustical Society of America*, 147, 852-866.

23. * DiNino, M., Arenberg, J., Duchen, A., **Winn, M.B.** (2020). Effects of age and cochlear implantation on spectrally cued Speech Categorization. *Journal of Speech, Language and Hearing Research*, 63, 2425-2440.

24. * Dirks, C., Nelson, P., **Winn, M.B.**, Oxenham, A. (2020). Sensitivity to binaural temporal-envelope beats with single-sided deafness and a cochlear implant as a measure of tonotopic match. *Journal of the Acoustical Society of America*, 147, 3626-3630.

25. **Winn, M.B** & Moore, A.N. (2020). Acoustic cues used for accommodating gender-related voice differences heard by listeners with cochlear implants and with normal hearing. *Journal of the Acoustical Society of America*, 148, 496-510.

26. **Winn, M.B.** & Teece, K. (2021). Slower speaking rate reduces listening effort and increases benefit of contextual cues among listeners with cochlear implants. *Ear & Hearing*, 42, 584-595. doi: 10.1097/AUD.0000000000000958

27. * Smith, M.L. & **Winn, M.B.** (2021) Individual variability in the adjustment to simulated shallow cochlear implant insertion depths. *Ear and Hearing, 42,* 1412-1427. doi: 10.1097/AUD.0000000000001043.

28. **Winn, M.B.** & Teece, K. (2021). Listening effort is not the same as speech intelligibility score. *Trends in Hearing*, 25, 1-26. doi: 10.1177/23312165211027688

29. **Winn, M.B.** & O'Brien, G. (2022). Distortion of spectral ripples through cochlear implants has major implications for interpreting performance scores *Ear and Hearing*, 43, 764-772. doi: 10.1097/AUD.0000000000001162

30. * Fleming, J.T. & **Winn, M.B.** (2022). Strategic perceptual weighting of acoustic cues for word stress in listeners with cochlear implants, acoustic hearing, or simulated bimodal hearing. *Journal of the Acoustical Society of America,* 152(3), 1300-1316. doi: 10.1121/10.0013890

31. **Winn, M.B.** & Wright, R.A. (2022). Reconsidering commonly used stimuli in speech perception experiments. *Journal of the Acoustical Society of America,* 152, 1394-1403. doi:

10.1121/10.0013415

32. **Winn, M.B.** & Teece, K.H. (2022). Effortful listening despite correct responses: the cost of mental repair in sentence recognition by listeners with cochlear implants. *Journal of Speech, Language, and Hearing Research,* 65(10), 3966-3980. doi: 10.1044/2022_JSLHR-21-00631

33. **Winn, M.B.**, Tripp, A., Munson, B. (2022). A critique and call for action, in response to sexist commentary about vocal fry. *Perspectives of the ASHA Special Interest Groups*. doi: 10.1044/2022_PERSP-21-00319

34. * Gianakas, S.P., Fitzgerald, M.B., **Winn, M.B.** (2022). Identifying listeners whose speech intelligibility depends on an extra moment to repair perceptual mistakes. *Journal of Speech, Language, and Hearing Research, in press.*

* Indicates trainee lead authorship under my mentorship

Invited book chapters

Winn, M.B. & Stilp, C. (2019) "Phonetics and the Auditory System" in *The Routledge Handbook of Phonetics* (W. Katz & P. Assmann, eds).

Winn, M.B. & Nelson, P.B. (2021) "Cochlear Implants" in *Oxford Research Encyclopedia of Linguistics. doi: 10.1093/acrefore/9780199384655.013.893*

Publications Submitted or in Progress

Asterisk(*) - indicates student author

Smith, M.L., **Winn, M.B.**, Fitzgerald, M.B. Performance on speech-in-noise and quiet in patients with conductive, mixed, and sensorineural hearing loss (in prep)

Presentations, Posters, and Exhibits

Asterisk(*) - indicates student/trainee co-presenter

International Invited Podium Presentations (10)

1. **Winn, M.B.**, (2016). Objective measures of effort and speech perception in hearing aid users. Podium presentation at the World Congress of Audiology, Vancouver, BC.
2. **Winn, M.B.** (2017). Using the pupil response to measure how hearing loss and task demands affect the timing (not just the amount) of listening effort. Podium presentation at Pupillometry in Hearing Science workshop, Amsterdam.
3. **Winn, M.B.** (2017). Temporal dynamics of speech perception and listening effort in people with hearing impairment. Invited presentation at University College London, London, England.

4. **Winn, M.B.** (2018). Invitation to speak at XII International Meeting on Advances in Audiology, Salamanca, Spain

5. **Winn, M.B**. (2020). Uncertainty in speech perception. Invited presentation at the Workshop on Perceptual Confidence and Uncertainty, Paris, France. Postponed due to COVID-19 pandemic.

6. **Winn, M.B.** (2020). Uncertainty in speech perception. Invited presentation at the First Session on Cognitive Hearing Science, Copenhagen, Denmark. Postponed due to COVID-19 pandemic.

7. **Winn, M.**B. (2020). Cue weighting as evaluation of the auditory system. Invited presentation at "Cue weighting: Thinking outside the box" satellite workshop at the 17th biennial conference of the Association for Laboratory Phonology.

8. **Winn, M.B.** (2020). Visible and invisible listening effort in people who use cochlear implants. Invited presentation at the first meeting of the Oticon Brain Hearing Network.

9. **Winn, M.B.** (2020). Overlooked considerations in pupillary measures of listening effort. Invited presentation at the first meeting of the GN Research Summit on Cognitive Load.

10. **Winn, M.B.** (2022). Making listening effort visible in the lab and in the clinic. Invited presentation at the British Cochlear Implant Group annual meeting in Cardiff, Wales.

11. **Winn, M.B.** (2022). Listening effort in cochlear implant users impairs perception of later utterances. Invited presentation at the Speech Science Forum Series at University College London in London, UK.

National Invited Podium Presentations (18)

1. **Winn, M.B.**, Edwards, J.R., Litovsky, R.Y. (2015). The relationship between phonetic cue weighting and listening effort in listeners with cochlear implants. Invited podium presentation at the 169th meeting of the Acoustical Society of America, Pittsburgh, PA.

2. **Winn, M.B.** (2016). Pupillary responses signify more than just effort: windows into processing, prediction, reflection, and uncertainty. Podium presentation at the Acoustical Society of America Fall meeting, Honolulu, HI.

3. **Winn, M.B.** (2017). Pupillary responses show deployment of listening effort during and after the processing of speech. Invited presentation at National Center for Rehabilitative Auditory Research; nationally telecast VA audiology research seminar.

4. **Winn, M.B.** (2017). Speech perception with a cochlear implant: the rules are different. Invited podium presentation at the Conference on Implantable Auditory Prostheses. Lake Tahoe, CA.

5. **Winn, M.B.**, Picou, E., Teubner-Rhodes, S., Eckert, M. (2017). Measuring and understanding listening effort. Invited presentation for American Academy of Audiology nationally telecast e-seminar.

6. **Winn, M.B.** (2017). Using pupillometry to look inside the process of repairing mistakes in speech perception. Invited presentation at Boston University Pupillometry Symposium, Boston, MA.

7. **Winn, M.B.** (2017). Temporal dynamics of speech perception and listening effort in people with hearing impairment. Invited presentation at Boys Town National Research Hospital, Omaha, NE.

8. **Winn, M.B.** (2018). More readable code in R using pipes and layers. Invited presentation at ancillary meeting at the 40th Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.

9. **Winn, M.B.** & Moore, A. (2019). Backwards and indirect context effects in accommodating gender differences in speech. Podium presentation at the Acoustical Society of America Spring meeting, Louisville, KY.

10. **Winn, M.B.** (2019). Understanding and measuring listening effort in people with hearing loss. Invited presentation at Northeast Ohio Medical University, Kent, OH.

11. **Winn, M.B.** & Teece, K. (2019). Speech perception tests motivated by everyday patient experience. Invited Podium presentation at the Annual Midwest CI Crash research conference, Madison, WI.

12. **Winn, M.B.** (2019). Listening effort: How it affects your patients' lives and how to measure it. Invited podium presentation at the annual convention of the American Speech-language Hearing Association, Orlando, FL.

13. **Winn, M.B.** (2020). Listening effort associated with misperceptions and confusions in speech perception by individuals with cochlear implants. Podium presentation at the annual Rush Ear Day conference, Chicago, IL.

    Winn, M.B. (2020). Interactive in-class simulations of hearing loss and cochlear implants to learn about hearing and the acoustics of speech. Invitation for podium presentation at the semi-annual meeting of the Acoustical Society of America. Postponed due to COVID-19 pandemic.

    Winn, M.B. (2020). Using Praat for high-quality speech manipulation and illustration: recommended practices and demonstrations. Invitation for podium presentation at the semi-annual meeting of the Acoustical Society of America. Postponed due to COVID-19 pandemic.

    Winn, M.B. & Wright, R. (2020). Commonly used speech stimuli in auditory experiments: a critical look. Invitation for podium presentation at the semi-annual meeting of the Acoustical Society of America. Postponed due to COVID-19 pandemic.

    Winn**, M.B.** (2020). Listening effort in people with hearing loss reflects economical language processing rather than audibility or speech intelligibility. Invited presentation at Gordon Research Conference, Providence, RI. Canceled due to COVID-19 pandemic.

14. **Winn, M.B.** (2020). Using Praat for high-quality speech manipulation and illustration: recommended practices and demonstrations. Invitation podium presentation at the semi-annual meeting of the Acoustical Society of America "Acoustics Virtually Everywhere".

15. **Winn, M.B.** & Teece, K. (2020). The mental cost of repairing errors in speech perception. Invitation podium presentation at the semi-annual meeting of the Acoustical Society of America "Acoustics Virtually Everywhere".

16. **Winn, M.B.** & Teece, K. (2021). Speech Perception with a Cochlear Implant: Percent-Correct Scores Do Not Explain Listening Effort. Invitation podium presentation for the Presidential Symposium at the annual meeting of the Association for Research in Otolaryngology.

17. **Winn, M.B.** & Wright, R. (2021). A Critical Look at Commonly Used Stimuli in Speech Perception Experiments. Invitation podium presentation at the semi-annual meeting of the Acoustical Society of America "Acoustics in Focus".

18. **Winn, M.B.** (2022). The timing and mechanisms of listening effort during speech perception. Invited podium presentation at the Gordon Research Conference on preventing loss and recovering function of the auditory system.

Podium Presentations (contributed) (25)

1. **Winn, M.B.** & Pence, K. (2003). More verbs to come: The developing focus on verbs in parents' speech to infants. Podium presentation at Delaware Speech, Language & Hearing Association conference, Wilmington, DE.

2. **Winn, M.B.**, Chatterjee, M.C., Idsardi, W.J. (2010). Phonetic cues are weighted differently when spectral resolution is degraded. Invited talk at the Joint Scientific Meeting of the Center for Comparative and Evolutionary Biology of Hearing (C-CEBH) at the Univ. of MD and the National Institute of Deafness and Other Communication Disorders (NIDCD) of the NIH, College Park, MD.

3. **Winn, M.B.**, Rhone, A.E., Idsardi, W.J. & Chatterjee, M. (2011). The perception of phonetic features and acoustic cues by impaired listeners. Invited talk at the 162nd meeting of the Acoustical Society of America, San Diego, CA.

4. **Winn, M.B.**, Idsardi, W.J. and Chatterjee, M. (2011). Implications of hearing impairment on phonetic perception. Invited talk at the Joint Scientific Meeting of the Center for Comparative and Evolutionary Biology of Hearing (C-CEBH) at the Univ. of MD and the National Institute of Deafness and Other Communication Disorders (NIDCD) of the NIH, College Park, MD.

5. **Winn, M.B.**, Rhone, A.E., Idsardi, W.J. & Chatterjee, M. (2013). Auditory and visual adaptation in cochlear implant speech perception. Podium presentation at the annual meeting of the American Auditory Society, Scottsdale, AZ.

6. **Winn, M.B.** & Litovsky, R.Y. (2014). Measuring listening effort in CI listeners using pupil dilation. Podium presentation at the 8th International Symposium on Objective Measures in Auditory Implants, Toronto, ON, Canada.

7. **Winn, M.B.** (2014). Single-sided deafness with a cochlear implant: a unique opportunity to learn about speech perception and the auditory system. Podium presentation at the CRASH Cochlear Implant Research Mini-Conference, Madison, WI.

8. **Winn, M.B.** and Litovsky, R.Y. (2014). The impact of bilateral cochlear implantation on listening effort revealed through measurements of pupil dilation. Podium presentation at the 2014 American Cochlear Implant Alliance Conference, Nashville, TN.

9. **Winn, M.B.**, Buhr-Lawler, M., Kan, A., Jones, H., Litovsky, R., Gubbels, S. (2014). The impact of adding a contralateral cochlear implant to a normal hearing ear in terms of spatial hearing abilities and listening effort during speech perception. Podium presentation at the 2014 American Cochlear Implant Alliance Conference, Nashville, TN.

10. **Winn, M.B.**, Litovsky, R.Y. (2015). The roles of harmonicity and temporal pitch in the perception of speech in noise: a study of intelligibility and listening effort. Podium presentation at the 38th Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.

11. **Winn, M.B.** (2016). Hearing impairment and listening effort: How do we measure it and why does it matter? Podium presentation at the local chapter of the Hearing Loss Association of America, Seattle, WA and Bellevue, WA.

12. **Winn, M.B.** (2016). Sensitivity to binaural cues above threshold as revealed by eye movements. Podium presentation at the Acoustical Society of America, Salt Lake City, UT.

13. DiNino, M., **Winn, M.B.,** Bierer, J.A. (2016). Cochlear implant listener vowel identification performance and confusion patterns with selective channel activation programs. Podium presentation at the Acoustical Society of America Fall meeting, Honolulu, HI.

14. **Winn, M.B.** (2017). Signs of Post-stimulus Auditory Processing in Pupillary Responses. Podium presentation at the 39th Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.

15. O'Brien, G., **Winn, M.B.** (2017). Uncertainty in Binaural Hearing Linked to Inherent Envelope Fluctuations. Podium presentation at the 39th Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.

16. **Winn, M.B.** (2017). Dynamic control over the allocation of listening effort in speech perception. Podium presentation at the Acoustical Society of America, Boston, MA.

17. DiNino, M., **Winn**, M.B., Arenberg, J. (2017). Vowel recognition scores of children with cochlear implants are related to speech-based spectral resolution and time with the Implant. Podium presentation at the American Cochlear Implant Alliance, Washington, DC.

18. **Winn, M.B.**, Moore, A. (2017). Direct and indirect context effects in speech perception by CI listeners. Podium presentation at the CI Crash conference, Madison, WI.

19. Gianakas, S., **Winn, M.B.** (2017). Severe deficits in perception of coarticulation in listeners with cochlear implants. Podium presentation at the CI Crash conference, Madison, WI.

20. **Winn, M.B.** (2018). Dynamic allocation of listening effort when listening to speech. Presentation at the meeting of the Acoustical Society of America, Minneapolis, MN.

21. **Winn, M.B.** & O'Brien, G. (2019). Flaws in the use of spectral ripples in cochlear implants. Podium presentation at the Acoustical Society of America, Louisville, KY.

22. **Winn, M.B.** (2021). Translating from the world back into the lab for studies on hearing difficulty. Podium presentation at the CATSS/NRT kickoff event

23. Fleming, J. & **Winn, M.B.** (2021) Weighting of lexical stress cues in normal hearing listeners and cochlear implant users. Podium presentation at the CI Crash conference, Madison, WI.

24. **Winn, M.**B. & Teece, K.H. (2021) Downstream effects of speech misperceptions in CI listeners. Podium presentation at the CI Crash conference, Madison, WI.

25. **Winn, M.**B. & Teece, K.H. (2022) Listening effort in CI users impairs perception of later utterances. Podium presentation at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Posters (54)

1. Blodgett, A., Bowles, A., Bauman, J., Shamoo, J., & **Winn, M.B.** (2007). Same or different: A preliminary acoustic analysis comparing native and non-native speaker production of Vietnamese lexical tones. Presentation at the 17th Annual Conference of the Southeast Asian Linguistics Society (SEALS XVII), College Park, MD.

2. **Winn, M.B.**, Blodgett, A., Bauman, J., Bowles, A., Charters, L., Rytting, C.A., & Shamoo, J. (2008). Vietnamese monophthong vowel production by native speakers and American adult learners. "Acoustics '08" the joint meeting of the Acoustical Society of America, the European Acoustics Association, and the Société Française D'Acoustique, Paris, France.

3. Blodgett, A., **Winn, M.B.**, Bauman, J., Bowles, A., Charters, L., Rytting, C.A., & Shamoo, J. (2009). Identifying adult learner difficulties in the acquisition of lexical tone. Presentation at American Association for Applied Linguistics, Denver, CO.

4. **Winn, M.B.**, Chatterjee, M.C., Idsardi, W.J. (2010). Phonetic cues are weighted differently when spectral resolution is degraded. Poster presentation at the annual meeting of the American Auditory Society, Scottsdale, AZ.

5. **Winn, M.B.**, Chatterjee, M. (2011). Modulation of phonetic cue-weighting in adverse listening conditions. Presented at 34th MidWinter meeting of the Association for Research in Otolaryngology, Baltimore, MD. 3

6. Rhone, A.E. **Winn, M.B.** (2011). Effects of spectral degradation on contextually-driven shifts in phonetic categorization. Presented at the 161st meeting of the Acoustical Society of America. Seattle, WA.

7. **Winn, M.B.**, Idsardi, W.J. and Chatterjee, M. (2011). Divergent patterns of voicing perception in various challenging listening conditions. Presented at the 161st meeting of the Acoustical Society of America, Seattle, WA.

8. Blodgett, A., Twist, A., Bauman, J., Bowles, A., Fox, M., Luu, P., Rytting, C.A., Marx, J. & **Winn, M.B.** (2011). Northern Vietnamese perception of non-native tones. Presented at the 17th International Congress of Phonetic Sciences ICPhS XVII, Hong Kong.

9. **Winn, M.B.**, Rhone, A.E., Idsardi, W.J. & Chatterjee, M. (2011). Normalization to talker gender and F0: Phonetic category adjustment by cochlear implant users. Presented at the 15th Conference on Implantable Auditory Prostheses, Asilomar, CA.

10. Lin, C., Lukyanchenko, A., **Winn, M.B.**, Idsardi, W. (2012). Acoustic Cues to Perception of Word Stress by English, Mandarin and Russian Speakers. Boston University Conference on language Development, Boston, MA.

11. Moon, I.J., Won, J.-H. & **Winn, M.B.** (2014). Assessment of spectral and temporal resolution in cochlear implant users: speech and psychoacoustic approach. MidWinter meeting of the Association for Research in Otolaryngology, San Diego, CA.

12. Kan, A., **Winn, M.B.**, Litovsky, R.Y. (2015) Investigating the ear advantage using pupillometry. MidWinter meeting of the Association for Research in Otolaryngology, San Diego, CA.

13. **Winn, M.B.**, Misurelli, S.M., Litovsky, R.Y. (2015). The impact of spectral resolution on the efficiency of sentence processing. Poster presented at the 38th Annual midwinter meeting of the Association for Research in Otolaryngology.

14. Venker, C., **Winn, M.B.**, Ellis-Weismer, S., Saffran, J., Edwards, J. (2015). Mutual Exclusivity in Young Children with ASD: An Eye-Gaze Study. Presentation accepted to the International Meeting for Autism Research, Salt Lake City, UT.

15. **Winn, M.B.** (2016) Sound quality impacts the speech and effort of sentence perception. Poster presented at the meeting of the American Auditory Society, Scottsdale, AZ.

16. **Winn, M.B.** (2016). Rapid reduction of listening effort resulting from predicting speech processing, and delays associated with cochlear implantation. Poster presented at the Acoustical Society of America, Salt Lake City, UT.

17. **Winn, M.B.** (2016). Using sociolinguistic phonetic perception to fine tune cochlear implant simulations. Poster presented at the Acoustical Society of America, Salt Lake City, UT.

18. *DiNino, M., **Winn, M.B.,** Bierer, J.A. (2016). Cochlear implant listener vowel identification performance and confusion patterns with reduced channel programs. Poster presented at the Acoustical Society of America, Honolulu, HI.

19. *Gianakas, S., **Winn, M.B.** (2016). Exploiting the Ganong effect to probe for phonetic uncertainty resulting from hearing loss. Poster presented at the Acoustical Society of America, Honolulu, HI.

20. Moore, A., **Winn, M.B.** (2016). Acoustic cues underlying the adjustment to talker sex in perception of fricative sounds. Poster presented at the Acoustical Society of America, Honolulu, HI.

21. O'Brien, G., **Winn, M.B.** (2016). Uncertainty in binaural hearing linked to inherent envelope fluctuations. Poster presented at the Acoustical Society of America, Honolulu, HI.

22. *Gianakas, S., **Winn, M.B.** (2017). Severe deficits in perception of anticipatory coarticulation in cochlear implant listeners in cochlear implant listeners. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

23. *Gianakas, S., **Winn, M.B.** (2017). Revealing phonetic uncertainty in cochlear implant listeners. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

24. Moore, A., **Winn, M.B.** (2017). Adjustment to variable voice acoustics by cochlear implant listeners. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

25. O'Brien, G., **Winn, M.B.** (2017). Aliasing of spectral ripples through CI processors: a challenge to the interpretation of correlation with speech recognition scores. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

26. *DiNino, M., **Winn, M.B.**, Duchen, A., Arenberg, J. (2018). Phonetic cue-weighting in children and adults with cochlear implants. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Diego, CA.

27. *Jahn, K., DiNino, M., **Winn, M.B.**, Arenberg, J. (2018). Relating vowel confusions to focused thresholds in pediatric cochlear implant users. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Diego, CA.

28. *Burg, E., Thakkar, T., Godar, S., **Winn, M.B.**, Litovsky, R. (2019). Listening effort in bilateral cochlear implant users with asymmetric across-ear performance in speech perception. Poster

presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.

29. *Gianakas, S., **Winn, M.B.** (2018). Listening to degraded speech can cause listeners to "wait and see". Poster presented at the meeting of the Acoustical Society of America, Minneapolis, MN.

30. *Dirks, C., & **Winn, M.B.** (2019). Envelope compression as a qualifying factor in the "eight-channel" limit. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

31. *Gianakas, S., & **Winn, M.B.** (2019). Disruption of the benefit of sentence context in listeners with cochlear implants. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

32. *Smith, M., & **Winn, M.B.** (2019). Individual differences in recalibrating to upward spectral shifts. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

33. *Burg, E., Thakkar, T., Anderson, S., Godar, S. **Winn, M.B.**, Litovsky, R. (2019). Does degree of speech asymmetry modulate bilateral speech intelligibility and listening effort in adults with bilateral cochlear implants and adults with normal hearing? Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

34. **Winn, M.B.** (2019). The effect of speaking rate on CI users' listening effort and access to sentence context. Poster presented at the Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

35. *Burg, E., Thakkar, T., Anderson, S., **Winn, M.B.**, Litovsky, R. (2020). Effects of asymmetric envelope compression on speech intelligibility and binaural unmasking. 2020 Speech In Noise Workshop, Toulouse, France.

36. *Burg, E., Thakkar, T., Anderson, S., **Winn, M.B.**, Litovsky, R. (2020). The effect of asymmetric dynamic range on speech intelligibility and binaural unmasking in normal hearing individuals listening to vocoded speech. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.

37. *Gianakas, S., Fitzgerald, M., **Winn, M.B.** (2020). Identifying listeners whose speech intelligibility depends on an extra moment to repair perceptual mistakes. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.

38. **Winn, M.B.**, Teece, K. (2020). Pupillometry reveals the cost of recovering from errors in speech perception. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.

39. **Winn, M.B.** (2020). Asymmetrical forward and backward auditory context effects in listeners with normal hearing and with cochlear implants. Poster presented at the Annual midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.

40. **Winn, M.B**. & Teece, K. (2020). Immediate and Ongoing Cost of Repairing Errors in Speech Perception. Poster presentation at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Winn, M.B. & Teece, K. (2020). The mental cost of repairing errors in speech perception. Poster presentation accepted for the semi-annual meeting of the Acoustical Society of America, Chicago, IL. Postponed due to COVID-19 pandemic.

41. Stilp, C. & **Winn, M.B.** (2020). Effects of silent interstimulus interval duration between precursor and target stimuli on spectral context effects in vowel and consonant categorization. Poster presentation at the Acoustical Society of America Acoustics Virtually Everywhere meeting.

42. **Winn, M.B.** & Teece, K.H. (2021). Visible and Invisible listening effort in people who use cochlear implants. Poster presented virtually at the Conference on Implantable Auditory Prostheses.

43. Stilp, C.E. & **Winn, M.B.** (2021). The timecourse and neural mechanisms of the influence of precursor spectral properties on speech perception. Poster presented virtually at the Annual midwinter meeting of the Association for Research in Otolaryngology.

44. **Winn, M.B.** & Teece, K.H. (2021). The Timing of deploying and withholding listening effort, in listeners with normal hearing or with cochlear implants. Poster presented at the 181st meeting of the Acoustical Society of America, Seattle, WA.

45. *Fleming, J.T. & **Winn, M.B.** (2021). Perceptual weighting of acoustic cues to word stress in normal hearing listeners and cochlear implant users. Poster presented at the 181st meeting of the Acoustical Society of America, Seattle, WA.

46. *****Smith, M.L. **& Winn, M.B.** (2021). Classifying and quantifying individual differences in phonetic categorization patterns. Poster presented at the 181st meeting of the Acoustical Society of America, Seattle, WA.
47. *Gianakas, S.P. & **Winn, M.B.** (2022). Topic awareness alleviates listening effort during speech perception. Poster presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.
48. *Smith, M.L. & **Winn, M.B.** (2022). Predictive context is helpful but retroactive context is effortful. Poster presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.
49. *Wheeler, H.J., *Krogseng, T., **Winn, M.B.** (2022). Production and perception of cues signaling information correction in utterances. Poster presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.
50. *****Gianakas, S.P. & **Winn, M.B.** (2022). The impact of prior topic awareness on listening effort during speech perception. Poster presented at the 182nd meeting of the Acoustical Society of America, Denver CO.
51. *****Smith, M.L. & **Winn, M.B.** (2022). The difference between using context to predict versus using context to repair: a study of listening effort. Poster presented at the 182nd meeting of the Acoustical Society of America, Denver CO.
52. *****Wheeler, H.J. & **Winn, M.B.** (2022). Perception of prosodic cues to correct mistakes by listeners with normal hearing and cochlear implants. Poster presented at the 182nd meeting of the Acoustical Society of America, Denver CO.
53. **Winn, M.B.** & Munson, B. (2022). Perception and expression of talker gender at the beginning and end of words. Poster presented at the 182nd meeting of the Acoustical Society of America, Denver CO.
54. *****Gianakas, S.P. & **Winn, M.B.** (2022). Prior knowledge alleviates listening effort during speech perception. Poster presented at the International Hearing Aid Research Conference, Tahoe City, CA.

Media Contributions

	Date
"Speech: It's Not as Acoustic as You Think" published in *Acoustics Today*, volume 14, issue 2, 2018. *Acoustics Today* is a publication covering basic and practical applications of acoustics to a global audience. Its reach includes educators, designers, engineers, buyers, and the service sector.	Summer 2018
"There is only one Beethoven", Minnesota Public Radio (provided input for the content of this on this 36-minute program regarding the nature of hearing impairment and how it affects peoples' lives, provided audio content and simulations of tinnitus and hearing loss) available online at https://www.decomposedshow.org/episode/2019/05/14/there-is-only-one-beethoven	May 2019
"Making Sense: How sound becomes hearing" Vox Unexplainable (podcast). I was interviewed for this episode of *Unexpalainable*, which is #1 highest ranked Life Sciences podcast in the United States, and #5 highest ranked science podcast overall, according to Rephonic.	March 2022

Other Research/Research in Progress

Primary sponsor for Steven Gianakas, National Research Service Award (F32) application
"Identifying listeners with hearing loss at risk for exerting extra effort in speech perception"

TEACHING

Scheduled Teaching

Course Name: Course Prefix Course Number: Term(s) taught

Introduction to Phonetic Science [HESP403] 15 semesters from 2005-2011	U. Maryland Enrollment: ~40 undergraduates
Implantable Auditory Prostheses [CSD863] Fall 2012	U. WI-Madison Enrollment: ~15 AuD students
Phonetics [SPHSC302] Winter 2016	U. Washington Enrollment: ~65 undergraduates
Hearing Science [SPHSC461] Winter 2016; 2017	U. Washington Enrollment: ~70 undergraduates
Advanced Hearing Science [SPHSC509] Autumn 2016; 2017	U. Washington Enrollment: ~15 AuD students
Physics and Biology of Spoken Language [SLHS1301] Fall 2018, Fall 2019, Spring 2020, Fall 2020,	U. Minnesota

Fall 2021	Enrollment: ~40-50 undergraduates
Cochlear Implants [SLHS5804] Spring 2019, Spring 2021	U. Minnesota Enrollment: ~15 AuD students

Instructional Activity

University of Minnesota

Best Practices in Scientific Presentations, guest lecture in Speech-Language-Hearing Sciences graduate student ProSeminar 10 participants	September 14, 2018
Listening Effort and Quality of Life, guest lecture in Speech-Language-Hearing Sciences audiology grand rounds 33 participants	October 5, 2018
The time course of listening effort in listeners with normal hearing and with cochlear implants, guest lecture in Department of Psychology Cognitive Science colloquium series 7 participants	November 29, 2018
The time course of listening effort in listeners with normal hearing and with cochlear implants, guest lecture in Speech-Language-Hearing Sciences audiology grand rounds 33 participants	November 30, 2018
Preparing for Job Talks. Department of Speech-Language-Hearing Sciences PhD student ProSeminar 10 participants	February 15, 2019
What your professor didn't tell you about speech perception, guest lecture in Department of Psychology Perception Lunch seminar series 28 participants	April 9, 2019
Best Practices in Data Visualization in Scientific Presentations, guest lecture in Neuroscience Research Training program 10 participants	April 23, 2019
Best Practices for Data Visualization, guest lecture in Neuroscience Research Training program 10 participants	July 9, 2019
Preparing Elevator Pitches. Department of Speech-Language-Hearing Sciences PhD student ProSeminar 10 participants	October 14, 2019
The cost of making mistakes in speech perception, guest lecture in Department of Psychology Perception Lunch seminar series	November 12, 2019

25 participants

Moving Beyond McGurk, guest lecture in Department of Psychology Journal club/ seminar series — December 9, 2019
20 participants

Writing Results & Discussion Sections in Research Articles — March 20, 2020
Guest lecture in SLHS 8410 Research Seminar
8 participants

Preparing short scientific talks. Department of Speech-Language-Hearing Sciences PhD student ProSeminar — October 11, 2021
13 participants

CURRICULUM DEVELOPMENT

Curriculum Development Activities

Early Career Teaching and Learning program.

I developed a nearly completely-new approach to teaching my graduate course in cochlear implants. I created a new assignment where students would explain complicated and controversial topics as they would to a patient or parent of a patient in a clinic, using lay language in situations that they are very likely to encounter in professional practice.

I have adopted *in-class live feedback systems* (TopHat and ChimeIn2), to get instant assessment of student knowledge that helps to shape lecture topics and discussions.

Multiple *in-class teaching evaluations* from people with varying perspectives, including Paul Ching (co-leader of the Early Career Teaching & Learning Program), Arlene Carney (former Professor in my department), and Tiffany Wolf (peer assistant professor in the College of Veterinary Medicine, who also was a participant in the ECTL Program).

During the 2020 COVID-19 pandemic, I developed *online video capsules* for each unit of my course to facilitate non-synchronous learning opportunities for students. These videos are publicly available at the Listen Lab YouTube channel.

Collaborative Efforts and Activities

Overhaul of graduate admissions — Dates

Together with a small committee within the department of Speech-Language-Hearing sciences, I helped to changed department graduate admissions to embrace holistic admission principles that would embody a spirit of anti-racism, diversity, equity and justice. — Summer 2020

PROFESSIONAL DEVELOPMENT

Pedagogical training — Oct 2018 – May 2019
"Early Career Teaching and Learning Program"

ADVISING AND MENTORING

Graduate Student Activities

Advisees

Steven Gianakas, PhD, Speech-Language-Hearing Sciences	2019 – present
Michael Smith, PhD, Speech-Language-Hearing Sciences	2020 – present
Harley Wheeler, PhD, Speech-Language-Hearing Sciences	2020 – present
Maria Paula Rodriguez, AuD, Speech-Language-Hearing Sciences	2019 – 2021
Siuho Gong, AuD, Speech-Language-Hearing Sciences	2019 – present
Zachary Herbert, AuD, Speech-Language-Hearing Sciences	2020 – present
Ryan Schwantes, AuD, Speech-Language-Hearing Sciences	2020 – present
Emily Hugo, AuD, Speech-Language-Hearing Sciences	2021 – present
Chieh Kao, AuD, Speech-Language-Hearing Sciences	2021 – present

Other Advising Activities

e.g. lab participation, directed research, honors theses, etc.

	Dates
Hannah Matthys, B.A. Speech-Language Hearing Sciences	2019 - 2020
Lindsay Williams, B.A. Speech-Language Hearing Sciences	2019 – 2020
Emily Hugo, B.A. Speech-Language Hearing Sciences	2019 –2021
Lana Pinaula-Toves, B.A. Human physiology & integrated neuroscience	2021 – 2022
Tereza Krogseng, B.A. Speech-Language Hearing Sciences	2021-presnt
Lexi Olson, B.A. Speech-Language Hearing Sciences	2022 – present
Miski Mohamed, B.A. Speech-Language Hearing Sciences	2022-present

Committee Advising

Coral Dirks, PhD, Speech-Language-Hearing Sciences	2018 - present
Nisarg Desai, PhD, Anthropology	2018 - present
Chieh Kao, PhD, Speech-Language-Hearing Sciences	2019 – present
Kristi Oeding, PhD, Speech-Language-Hearing Sciences	2019 – present

Professional Student Activities

Advisees

Leigh Rohren, AuD, Speech-Language-Hearing Sciences	Spring 2020-2021
Martha Westman, AuD, Speech-Language-Hearing Sciences	Spring 2020-2021
Danielle Barr, AuD, Speech-Language-Hearing Sciences	Spring 2020-2021
Zachary Herbert, AuD, Speech-Language-Hearing Sciences	Spring 2020-present
Siuho Gong, AuD, Speech-Language-Hearing Sciences	Spring 2020-present
Ryan Schwantes, AuD, Speech-Language-Hearing Sciences	Spring 2020-present
Emily Hugo, AuD, Speech-Language-Hearing Sciences	Spring 2021-present

SERVICE

Service to the Discipline/Profession/Interdisciplinary Area(s)

Leadership on Organizing Committees

Association for Research in Otolaryngology Annual Meeting Program Committee
Association for Research in Otolaryngology Poster Blitz
Association for Research in Otolaryngology Science Communication Workshop
Acoustical Society of America Special Session Chair
Acoustical Society of America Technical Council

Editorial Consultant
Journal of the Association for Research in Otolaryngology
Journal of the Acoustical Society of America
JASA Express Letters
Ear and Hearing
Journal of Phonetics
PLoS One
Journal of Communication Disorders
Attention, Perception & Psychophysics
Frontiers in Psychology
Journal of Speech, language and Hearing Research
Mind, Brain and Education
Cochlear Implants International
Hearing Research
American Journal of Audiology
Annals of Otology Rhinology and Laryngology
Trends in Hearing

Associate Editor
Ear and Hearing (guest)
Journal of the Acoustical Society of America (special issue guest editor)

Service to the University/College/Department

University of Washington

Reviewer, Royalty Research Fund 2017

Member, graduate admissions committee, 2017

Member, Undergraduate curriculum committee 2018

Member, Auditory Neuroscience Training Grant 2018

Member, Faculty search committee (audiology) 2017-2018

University of Minnesota

Member, Search Committee, assistant professor in speech-language pathology, 2018-2019, Dept of Speech-Language-Hearing Sciences

Search committee, assistant professor in audiology, 2019-2020, Dept of Speech-Language-Hearing Sciences

Merit committee, Dept of Speech-Language-Hearing Sciences, 2019, 2020

College of Liberal Arts (CLA) Assembly, 2020

Department Committee on Diversity, Equity, Inclusion and Anti-Racism, 2020-present

Department curriculum committee (AuD)

Chair, Search Committee for SLHS/CATSS Research Engineer, 2020

Space Committee, 2021

Application for classroom upgrade for Shevlin room 20 (noise control/dereverberation)

Public and External Service

	Dates
"Hearing impairment and listening effort: How do we measure it and why does it matter?" Podium presentation at the local chapter of the Hearing Loss Association of America, Seattle, WA	February 9, 2016
Hearing Loss and Listening Effort: How do we measure it and why does it matter? Invited podium presentation at Seattle Children's hospital, Seattle, WA.	February 24, 2016
"Hearing impairment and listening effort: How do we measure it and why does it matter?" Podium presentation at the local chapter of the Hearing Loss Association of America, Bellevue, WA.	April 9, 2016
Paws-on-Science community event – demonstrations of hearing and sound	May 7, 2016
"The importance of effort in speech communication" Contributed article to Hearing Loss Association of America newsletter.	June 1, 2016
"Measuring and understanding listening effort" Invited presentation for American Academy of Audiology nationally telecast e-seminar. co-authored with Picou, E., Teubner-Rhodes, S., Eckert, M.	September 18, 2017
"Listening effort: ways that it affects your life and how it is measured" Invited podium presentation at the Hearing Loss Association of America.	September 20, 2019
"Listening effort: ways that it affects your life and how it is measured", guest lecture to M Health / Fairview audiology continuing education series.	October 12, 2019
"Listening effort: It's about time" invited article in the Minnesota Academy of Audiology newsletter, Winter 2019/20	December 6, 2019
"The Invisible Problem of Listening Effort" invited article in the Hearing Loss Association Winter newsletter, January 2021.	January 4, 2021
"The Invisible Problem of Listening Effort" Invited podium presentation at the Hearing Loss Association of America.	January 16, 2021
"Designing and Delivering Effective Scientific Presentations" Research Audiologist Information and Support Network annual seminar, presentation with Kelsey Anbuhl, PhD.	October 12, 2021
"Designing and Delivering Effective Scientific Presentations" Association for Research in Otolaryngology annual meeting, presentation with Kelsey Anbuhl, PhD.	January 13, 2022

Website: www.mattwinn.com

Website for class videos and software tutorials:
https://www.youtube.com/channel/UC_x__R0Ye8ovImKj1lXs2Hg/videos