Jacie R. McHaney, PhD

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Research Assistant Professor
Roxelyn and Richard Pepper Department of Communication Sciences and Disorders
Northwestern University

Education and Training

Undergraduate:

Dates Attended	*Institution, Location*	*Degree, Year*	*Major*
2010-2013	Austin Community College, Austin, TX	AS, 2015	General Studies in Science
2013-2015	University of Texas at Austin, Austin, TX	BS, 2015	Psychology

Graduate:

Dates Attended	*Institution, Location*	*Degree, Year*	*Major*
2019-2023	University of Pittsburgh, Pittsburgh, PA	PhD, 2023	Communication Science and Disorders

Appointments and Positions

Years	*Institution*	*Title*
2019-2021	Department of Neurobiology, University of Pittsburgh	Predoctoral Trainee
2022-2023	Department of Communication Science and Disorders, University of Pittsburgh	Predoctoral Fellow
2023	Department of Communication Science and Disorders, University of Pittsburgh	Research Associate
2023-	Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University	Research Assistant Professor
2023-	Cognitive Science Program, Northwestern University	Affiliated Faculty

Membership in Professional and Scientific Societies

- Society for Neurobiology of Language
- Association for Research in Otolaryngology
- American Auditory Society

Awards and Honors

Title of Award	*Year*
Phi Theta Kappa Honor Society	2012
University Honors, The University of Texas at Austin	2015

Title of Award	*Year*
Psi Chi International Honor Society in Psychology, The University of Texas at Austin	2015
Student Travel Award, Society for Neurobiology of Language	2022
Travel Funds, Gordon Research Conference – Auditory System	2022
Protégé, ASHA Lessons for Success	2025
New Investigator Travel Award, American Auditory Society	2026

Publications

Peer-reviewed

1. Koski, J. E., **McHaney, J. R.**, Rigney, A. E., & Beer, J. S. (2020). Reconsidering Longstanding Assumptions About the Role of Medial Prefrontal Cortex (MPFC) in Social Evaluation. *NeuroImage*, *214*, 116752.
2. Llanos, F., **McHaney, J. R.,** Schuerman, W. L., Yi, H. G., Leonard, M. K., & Chandrasekaran, B. (2020). Non-invasive peripheral nerve stimulation selectively enhances speech category learning in adults. *npj Science of Learning, 5*(1), 1-11.
3. **McHaney, J. R.,** Gnanateja, G. N., Smayda, K. E., Zinszer, B. D., & Chandrasekaran, B. (2021). Cortical Tracking of Speech in Delta Band Relates to Individual Differences in Speech in Noise Comprehension in Older Adults. *Ear and Hearing, 42*(2), 343-354.
4. **McHaney, J. R.,** Tessmer, R., Roark, C. L., & Chandrasekaran, B. (2021). Working memory relates to individual differences in speech category learning: Insights from computational modeling and pupillometry. *Brain and Language, 222,* 105010.
5. Lescht, E., Venker, C., **McHaney, J. R.,** Bohland, J., & Hampton Wray, A. (2022). Novel Word Recognition in Childhood Stuttering. *Topics in Language Disorders, 42*(1), 41-56.
6. Cancel, V. E.*, **McHaney, J. R.***, Milne, V. Palmer, C., & Parthasarathy, A. (2023). A data-driven approach to identify a rapid screener for auditory processing disorder testing referrals in adults. *Scientific Reports, 13*, 13636. ***(*co-first authors).***
7. **McHaney, J. R.,** Schuerman, W. L., Leonard, M. K., & Chandrasekaran, B. (2023). Transcutaneous vagus nerve stimulation modulates pupillary responses during non-native speech category learning. *Journal of Speech, Language, and Hearing Research*, *66*(10), 3825-3843.
8. Mukhopadhyay, M., **McHaney, J. R.,** Chandrasekaran, B., & Sarkar, A. (2024). Bayesian semiparametric longitudinal inverse-probit mixed models for category learning. *Psychometrika, 89*(2), 461-485.
9. Roark, C. L., Paulon, G., Rebaudo, G., **McHaney, J. R.**, Sarkar, A., & Chandrasekaran, B. (2024). Individual differences in working memory impact the trajectory of non-native speech category learning. *PLOS ONE, 19*(6), e0297917.
10. **McHaney, J. R.,** Hancock, K. E., Polley, D. B., & Parthasarathy, A. (2024). Sensory representations and pupil-indexed listening effort provide complementary contributions to multi-talker speech intelligibility. *Scientific Reports, 14*(1), 30882.
11. Guo, Z.*, **McHaney, J. R.*,** Parthasarathy, A., McFarlane, K. A., & Chandrasekaran, B. (2025). Reduced neural distinctiveness of speech representations in the middle-aged brain. *Neurobiology of Language, 6,* nol_a_00169. ***(*co-first authors).***
12. Zink, M. E.*, Zhen, L.*, **McHaney, J. R.*,** Klara, J., Yurasits, K., Cancel, V., Flemm, O., Mitchell, C., Datta, J., Chandrasekaran, B., & Parthasarathy, A. (2025). Increased listening

effort and cochlear neural degeneration underlie behavioral deficits in speech perception in noise in normal hearing middle-aged adults. *eLife,* 13, RP102823. ***(*co-first authors).***

13. **McHaney, J. R.,** Guo, Z., Gnanateja, G. N., Parthasarathy, A., & Chandrasekaran, B. (2025). Neural Coding of Fundamental Frequency and Processing of Discrete Pitch Accents in Middle-age. *European Journal of Neuroscience, 62*(9), e70285.

In Revision

1. Choi, J. Y., Xiong, S., **McHaney, J. R.,** & Chandrasekaran, B. (in revision). Reverse hierarchical processing of speech in talker identification. *European Journal of Neuroscience.*
2. Kim, S. H.*, Park, T. W.*, Cho, S.*, Yang, T.*, Yoo, S., Ilya, K., **McHaney, J. R.**, Jaffe, J., Kshetrapal, A., Wang, Y., Wu, Y., Chang, J. K., Park, J., Ahn, H., Jo, M., Trueb, J., Jung., Y. H., Oh, S., Won, S. M., Weese-Mayer, D. E., Yoo, J., & Rogers, J. A. (revisions in review). Wireless, skin-interfaced multimodal sensing system for continuous psychophysiological monitoring – a wearable polygraph device. *Science Advances.* (*co-first authors)

Archived Pre-print Manuscripts

1. **McHaney, J. R.,** Roark, C. L., McGinley, M. J., & Chandrasekaran, B. (2024). Combining pupillometry and drift-diffusion models reveals auditory category learning dynamics. *bioRxiv.* doi: 10.1101/2024.04.16.589753.
2. Zhen, L., Parida, S., **McHaney, J. R.,** Zink, M., Chandrasekaran, B., & Parthasarathy, A. (2025). Degraded neural coding of temporal fine structure with age predicts effortful listening in multi-talker environments. *bioRxiv.* doi: 10.1101/2025.11.17.688858.

Abstracts: Conference Posters and Podium Presentations

1. Koski, J. E., **Richardson, J. B.**[1]**,** Rigney, A. E., & Beer, J. S. (April 2016). Too much information or warm fuzzy feelings? Understanding the role of MPFC in processing the self versus others. Poster presented at the Social and Affective Neuroscience (SANS) Annual Meeting, New York, NY.
2. Smayda, K. E, **McHaney, J. R.**, & Chandrasekaran, B. (May 2017). Music Training for the Enhancement of Speech-In-Noise Processing in Older Adults. Poster presented at the Texas Leadership Luncheon, Austin, TX.
3. **McHaney, J. R.**, Zinszer, B. D., Smayda, K. E., & Chandrasekaran, B. (March 2018). Effect of listening environment on cortical entrainment to continuous speech in older adults. Poster presented at the Cognitive Neuroscience Society 25th Annual Meeting, Boston, MA.
4. Llanos, F., **McHaney, J. R.,** Leonard, M. K., Schuerman, W. L., Yi, H. G., & Chandrasekaran, B. (August 2018). Transcutaneous vagus nerve stimulation enhances non-native speech categorization. Poster presented at the 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Québec, Canada.
5. **McHaney, J. R.,** Zinszer, B. D., Smayda, K. E., Xie, Z., & Chandrasekaran, B. (December 2018). Cortical entrainment to the speech envelope relates to speech comprehension in older adults under adverse listening conditions. Poster presented at the 12th Annual Aging Institute Research Day, Pittsburgh, PA.

[1] Last name changed to McHaney from Richardson in 2017

6. **McHaney, J. R.**, Schuerman, W. L., Leonard, M. K., & Chandrasekaran, B. (October 2020). Non-invasive peripheral nerve stimulation paired with speech sounds modulates pupillary responses and selectively enhances learning. Poster presented at the Twelfth Annual Meeting of the Society for Neurobiology of Language, Virtual.

7. Roark, C. L., Reetzke, R., Llanos, F., **McHaney, J. R.**, & Chandrasekaran, B. (December 2020). Learning Mandarin tone categories with natural speech and a non-speech homologue. Poster to be presented at the 179th Meeting of the Acoustical Society of America, Chicago, IL. (Conference canceled)

8. Lescht, E., Venker, C., **McHaney, J. R.,** & Hampton Wray, A. (January 2021). Novel word learning in children who stutter. Poster presented at the 12th Oxford Dysfluency Conference, Virtual.

9. **McHaney, J. R.,** Hancock, K. E., Polley, D. B., & Parthasarathy, A. (February 2022). Neurophysiological markers of central gain and their relationship to speech-in-noise intelligibility. Poster presented at the 45th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Virtual.

10. Cancel, V. E., **McHaney, J. R.,** Milne, V., Palmer, C., & Parthasarathy, A. (February 2022). Hearing Difficulties with Normal Audiograms: Insights from the Auditory Processing Disorder Test Battery. Poster presented at the 45th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Virtual.

11. Cancel, V. E., **McHaney, J. R.,** Milne, V., Palmer, C., & Parthasarathy, A. (April 2022). Hearing Difficulties with Normal Audiograms: Insights from the ADP Test Battery. Poster presented at the American Academy of Audiology 2022 + HearTECH Expo, St. Louis, MO. *Received the James and Susan Jerger Award for Excellence in Student Research, American Academy of Audiology Foundation.*

12. **McHaney, J. R.,** Yurasits, K., Hancock, K. E., Polley, D. B., & Parthasarathy, A. (July 2022). Neurophysiological markers of central gain and their relationship to speech-in-noise intelligibility in normal-hearing listeners. Poster presented at the Auditory System Gordon Research Conference: Preventing Loss and Recovering Function of the Auditory System, Smithfield, RI.

13. **McHaney, J. R.,** Zhen, L., Roark, C. L., Parthasarathy, A. & Chandrasekaran, B. (October 2022). Sensory Encoding and Decision-making in Speech Perception in Noise. Poster presented at the Fourteenth Annual Meeting of the Society for Neurobiology of Language, Philadelphia, PA.

14. Zhen, L. Q., **McHaney, J. R.,** Zink, M. E., Mitchell, C., Parida, S., Anthony, S., Hallihan, M., Brown, C. A., Chandrasekaran, B., & Parthasarathy, A. (February 2023). Age-related Differences in Neural and Perceptual Signatures of Temporal Fine Structure Processing Underlying Muti-talker Speech Intelligibility. Poster to be presented at the Association for Research in Otolaryngology 46th Annual MidWinter Meeting, Orlando, FL.

15. Zink, M. E., **McHaney, J. R.,** Mitchell, C., Hallihan, M., Anthony, S., Chandrasekaran, B., & Parthasarathy, A. (February 2023). Neurophysiological Markers of Sensory Gain and Their Relationship to Speech Perception in Noise in Young and Middle-Aged Adults. Poster to be presented at the Association for Research in Otolaryngology 46th Annual MidWinter Meeting, Orlando, FL.

16. Parker, A., **McHaney, J. R.,** Xie, Z., Chandrasekaran, B., & Hampton Wray, A. (February 2023). Cortical Tracking of Continuous Speech-in-Noise: Children's Use of Linguistic and Acoustic Information. Poster to be presented at the Association for Research in Otolaryngology 46th Annual MidWinter Meeting, Orlando, FL.

17. **McHaney, J. R.,** Zhen, L., Anthony, S., Xie, Z., Parthasarathy, A., & Chandrasekaran, B. (February 2023). Deficits in Sensory Decision-Making Underlie Self-Perceived Hearing Difficulties. Talk presented at the Association for Research in Otolaryngology 46th Annual MidWinter Meeting, Orlando, FL.

18. **McHaney, J. R.** & Chandrasekaran, B. (March 2023). Lexical knowledge facilitates phoneme categorization at intermediate noise levels. Poster presented at the American Auditory Society's 50th Annual Scientific & Technology Conference, Scottsdale, AZ.

19. Mitchell, C., Zink, M. E., **McHaney, J. R.,** Anthony, S., Hallihan, M., Chandrasekaran, B., & Parthasarathy, A. (April 2023). Relationship between altered auditory temporal processing and speech perception in noise in young and middle-aged adults. Poster presented at the American Academy of Audiology 2023 + HearTECH Expo, Seattle, WA.

20. Yurasits, K., Zhen, L. Q., Parida, S., Klara, J., **McHaney, J. R.,** Cancel, V., Zink, M. E., Mitchell, C., Chandrasekaran, B., & Parthasarathy, A. (April 2023). Age-related changes in the representation of stimulus temporal fine structure cues and their relationship to multi-talker speech intelligibility. Poster to be presented at the American Academy of Audiology 2023 + HearTECH Expo, Seattle, WA. *Received the James and Susan Jerger Award for Excellence in Student Research, American Academy of Audiology Foundation.*

21. Parker, A., **McHaney, J. R.,** Coleman, B., Chandrasekaran, B., & Hampton Wray, A. (November 2023). Phonological Awareness and the Impact of Noise Level on Speech Perception. Poster presented at the 2023 American Speech-Language-Hearing Association Convention, Boston, MA.

22. Guo, Z., **McHaney, J. R.,** Xiong, S., Chandrasekaran, B., & Parthasarathy, A. (June 2024). Decoding single-trial frequency-following responses to speech using an animal model. Poster presented at the 2024 Frequency Following Response Workshop, Chicago, IL.

23. **McHaney, J. R.,** Guo, Z., Gnanateja, G. N., Parthasarathy, A., & Chandrasekaran, B. (October 2024). Reduced temporal processing of fundamental frequency in middle-age impacts higher-level linguistic features for speech perception. Poster presented at the Advances and Perspectives in Auditory Neuroscience Annual Meeting, Chicago, IL.

24. Guo, Z., **McHaney, J. R.**, Xie, Z., & Chandrasekaran, B. (October 2024). Reduced neural encoding of phonemes in middle-aged adults. Poster presented at the Advances and Perspectives in Auditory Neuroscience Annual Meeting, Chicago, IL.

25. Choi, J. Y., Xiong, S., **McHaney, J. R.,** & Chandrasekaran, B. (October 2024). Pupillary measures of identifying talkers in native language and unfamiliar language. Poster presented at the Advances and Perspectives in Auditory Neuroscience Annual Meeting, Chicago, IL.

26. Parker, A., **McHaney, J. R.,** Coleman, B., Block, A., Chandrasekaran, B., & Hampton Wray, A. (October 2024). Receptive Language Proficiency Impacts Cortical Tracking of Continuous Speech in Noise in Children. Poster presented at the Sixteenth Annual Meeting of the Society for Neurobiology of Language, Brisbane, Australia.

27. Parker, A., **McHaney, J. R.**, Xie, Z., Chandrasekaran, B., & Hampton Wray, A. (December 2024). Developmental and Individual Differences in Red Tracking of Speech-on-Speech. Poster presented at the 2024 American Speech-Language-Hearing Association Convention, Seattle, WA.
28. Parker, A., **McHaney, J. R.,** Coleman, B., Chandrasekaran, B., & Hampton Wray, A. (May 2025). Language Skills Relate to Neural Tracking of Continuous Speech-on-Speech in Children. Poster presented at the Society for Research in Child Development 2025 Biennial Meeting, Minneapolis, MN.
29. Parker, A., **McHaney, J. R.**, Chandrasekaran, B., & Hampton Wray, A. (November 2025). Neural Tracking of Continuous Speech-in-Noise in Children Who Stutter. Poster presented at the 2025 American Speech-Language-Hearing Association Convention, Washington, DC.
30. **McHaney, J. R.,** Parthasarathy, A., & Chandrasekaran, B. (February 2026). Phoneme-level Processing Deficits Reveal Speech Perception Challenges in Middle-age. New Investigator Podium Presentation at the 2026 Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.

Media Coverage

1. FACETS. (2019). Team-Based Science at its best. [press release]. Retrieved from https://issuu.com/pittshrs/docs/facets_spring_19_pdf/28
2. Science Daily. (2020). Non-invasive nerve stimulation boosts learning of foreign language sounds. [press release]. Retrieved from Non-invasive nerve stimulation boosts learning of foreign language sounds -- ScienceDaily
3. Psychology Today. (2020). Can Vagus Nerve Stimulation Improve How We Learn? [press release]. Retrieved from Can Vagus Nerve Stimulation Improve How We Learn? | Psychology Today
4. Inverse (2020). Scientists discover brain hack that improves language abilities by 13%. Retrieved from Scientists discover brain hack for language learning (inverse.com)
5. Northwestern Now. (2025). Second round of Ryan Family Research Acceleration Fund awards more than $2 million to Northwestern scientists. [press release]. Retrieved from Second round of Ryan Family Research Acceleration Fund awards more than $2 million to Northwestern scientists.

Professional Activities

TEACHING:

Dates	***Course, Location***	***Level***	***Role***
2021	Neuroscience of Communication, University of Pittsburgh	Graduate	Assistant Instructor
2021	*Anatomy and Physiology of the Auditory System*, Introduction to Neuroscience of Communication, University of Pittsburgh	Undergraduate	Guest Lecturer
2023	*Hearing Loss and Cognition,* Neuroscience of Communication, University of Pittsburgh	Graduate	Guest Lecturer
2023	*Frequency-following Responses,* Advanced Physiological Assessment, University of Pittsburgh	Graduate	Guest Lecturer

2024	*Frequency-following Responses,* Advanced Physiological Assessment, University of Pittsburgh	Graduate	Guest Lecturer
2024	*Coding for Career Growth*, Professional Development, Northwestern University	Graduate	Guest Lecturer
2025	*Hands-on Neuroscience Lab Demonstration,* Engaging Audiences: Narrative and Neuroscience, Northwestern University	Undergraduate	Guest Instructor
2025	*Hands-on Anechoic Chamber Demonstration,* Engaging Audiences: Narrative and Neuroscience, Northwestern University	Undergraduate	Guest Instructor

MENTORING:

Postdoctoral Fellows

Name	***Year***	***Status***
Zhe-chen Guo	2023-	Postdoctoral Fellow, Northwestern University. Co-supervised with Bharath Chandrasekaran, PhD.
Ja Young Choi	2023-2025	Postdoctoral Fellow, Northwestern University. Co-supervised with Bharath Chandrasekaran, PhD.

PhD Students

Name	***Year***	***Status/Noteworthy fellowships***
Shengyue Xiong	2023-	PhD Student in Communication Sciences and Disorders, Northwestern University. Co-supervised with Bharath Chandrasekaran, PhD
Kevin Yi Zhang	2024-2025	PhD Student in Communication Sciences and Disorders, Northwestern University. Co-supervised with Beverly Wright, PhD
Sarah Ethridge	2025-	PhD Candidate in Clinical Psychology, Northwestern University. Co-supervised with Molly Losh, PhD. Awarded NIH NRSA F31 in 2025.
Jun Zhang	2025-	PhD Student in Communication Sciences and Disorders, Northwestern University. Co-supervised with Monita Chatterjee, PhD

AuD Students: Capstone Research

Name	***Year***	***Status/Noteworthy awards***
Victoria Cancel	2021-2022	Currently an audiologist at Jabra Hearing. Awarded the James and Susan Jerger Award for Excellence in Student Research in 2022 at the American Academy of Audiology Conference. Co-mentored with Aravindakshan Parthasarathy, PhD
Kimberly Yurasits	2022-2023	Currently an audiologist in Boston, MA. Awarded the James and Susan Jerger Award for Excellence in Student Research in 2023 at the American Academy of Audiology Conference. Co-mentored with Aravindakshan Parthasarathy, PhD

Mollee Feeney	2023-2025	AuD Student, Northwestern University
Ishika Choksi	2024-2025	AuD Student, Northwestern University
Lauren Preston	2024-2025	AuD Student, Northwestern University
Gulnoor Grover	2025-	AuD Student, Northwestern University

Mentored Grant Funding:

Funding Source	*Title*	*Role*	*Dates*	*Amount*
Summer Undergraduate Research Program, Northwestern University	Effect of Vibrotactile Stimulation on F0 Encoding	Mentor	04/24-09/24	$4000
NIH-NIDCD	F31DC023492: The cadence of social communication: Unraveling speech rhythm and underlying neural, motor, and genetic mechanisms	Mentor	12/25-06/27	

RESEARCH:

Current Grant Support: Extramural

Funding Source	*Grant Number*	*Title*	*Role*	*Dates*	*Amount*
NIH-NIDCD	R21DC022031	The Role of Context in the Neural Processing of Speech in Autism Spectrum Disorder	Co-I	07/24-06/27	$600,000

Current Grant Support: Intramural

Funding Source	*Grant Number*	*Title*	*Role*	*Dates*	*Amount*
Ryan Family Research Acceleration Funds	NA	Neura-Speech: Bridging the Diagnostic Gap for Hidden Hearing Loss Through Electrophysiological Speech Markers	Co-PI	02/25-01/26	$242,474

Pending Grant Support

Funding Source	*Grant Number*	*Title*	*Role*	*Dates*	*Amount*
NIH-NIDCD	R21DC022914	The Role of Extended High Frequencies on Speech	PI	TBD	$600,000

Funding Source	*Grant Number*	*Title*	*Role*	*Dates*	*Amount*
		Perception Challenges in Aging			
Hearing Health Foundation		Neural and Cognitive Mechanisms of Hearing-Aid Signal Processing	PI	TBD	$50,000

Prior Grant Support

Funding Source	*Title*	*Role*	*Dates*	*Amount*
Undergraduate Research Fellowship, The University of Texas at Austin	The role of the medial prefrontal cortex in social evaluation	PI	08/15-12/15	$1000
NIH-NIDCD	T32DC011499: Training in Auditory and Vestibular Neuroscience	Predoctoral Trainee	09/19-08/21	$85,252
NIH-NIDCD	F31DC020085: Neural Mechanisms of Speech Perception in Noise in Middle-Age	PI	05/22-04/23	$145,608
University of Pittsburgh CTSI	Decision Strategies in Speech Perception in Aging. Subaward of NIH-NCATS UL1TR001857	Co-PI	02/22-01/23	$25,000
Undergraduate Research Assistant Program, Northwestern University	Neurophysiological indices of mechanisms underlying auditory processing	PI	11/23-05/24	$1600

Other Research Related Activities

Journal Reviewer

Journal	*Year*
Journal of Speech, Language, and Hearing Research	2023
Brain and Language	2023
Nature Communications (co-reviewer)	2023
iScience	2023
American Journal of Speech-Language Pathology	2024
Journal of Speech, Language, and Hearing Research	2024
Brain and Language	2024

Journal of Neurolinguistics	2024
NeuroImage	2024
American Journal of Audiology	2025
Brain and Language	2025
Neuromodulation: Technology at the Neural Interface	2025
Journal of Speech, Language, and Hearing Research	2025
Bilingualism: Language and Cognition	2025
Imaging Neuroscience	2025
Journal of Cognitive Neuroscience	2025

Invited Talks and Lectures

1. **McHaney, J. R.** (2017). *Effect of listening environment on continuous speech processing in older adults,* Sixth Annual Communication Sciences and Disorders Research Blitz, The University of Texas at Austin, Austin, TX
2. **McHaney, J. R.** (2019). *Aging, cognition, and speech processing,* Auditory and Vestibular Neuroscience T32 Seminar, University of Pittsburgh, Pittsburgh, PA
3. **McHaney, J. R.** (2020). *Cortical Tracking of Speech in Older Adults,* Auditory and Vestibular Neuroscience T32 Retreat, University of Pittsburgh, Pittsburgh, PA
4. **McHaney, J. R.** (2020). *Cortical Tracking of Speech in Older Adults*, Department of Communication Science and Disorders Research Round Table Seminar, University of Pittsburgh, Pittsburgh, PA.
5. **McHaney, J. R.** (2021). *Working Memory During Non-Native Speech Category Learning*, Auditory and Vestibular Neuroscience T32 Seminar, University of Pittsburgh, Pittsburgh, PA.
6. **McHaney, J. R.** (2021). *Influence of Working Memory on Non-Native Speech Category Learning*, Department of Communication Science and Disorders Research Round Table Seminar, University of Pittsburgh, Pittsburgh.
7. **McHaney, J. R.** (2021). *Working Memory Influences Speech Category Learning: A Pupillometry Study,* Auditory and Vestibular Neuroscience T32 Annual Retreat, University of Pittsburgh, Pittsburgh, PA.
8. **McHaney, J. R.** (2022). *Sensory and Cognitive Factors Underlying Individual Variability in Speech in Noise Perception,* Hearing and Cookies Seminar Series, University of Pittsburgh, Pittsburgh, PA.
9. **McHaney, J. R.** (2024). *Neural Mechanisms of Speech Perception in Noise in Middle-age,* Presentation, Ear Day, RUSH University, Chicago, IL
10. **McHaney, J. R.** (2025). *Rethinking speech perception challenges in adults without hearing loss,* Lecture, ContinuEd AudiologyOnline and Association of VA Audiologists, Virtual
11. **McHaney, J. R.** (2025). *Open Science Initiatives*, Lecture, R25 Training in Audiology Research, University of Pittsburgh (Virtual), Pittsburgh, PA

Organized Symposiums/Workshops

1. Chandrasekaran, B., & **McHaney, J. R.** (2023, August). Multidimensional Approaches to Speech Understanding in Challenging Listening Environments, Northwestern University, Evanston, IL. Role: Co-Organizer.

SERVICE:

University of Pittsburgh

PhD Student Representative, Communication Science and Disorders	2019-2021
Organizer, Research Round Table Seminar Series	2020-2021

Northwestern University

Member, Committee for Data Collection of CSD Department Metrics	2024
Judge, Undergraduate Research and Creative Arts Exposition	2024
Member, Northwestern University Undergraduate Research Faculty Review Committee	2024-

External

Mentor, Career Development Lunch for Trainees, Advances and Perspectives in Auditory Neuroscience Annual Meeting, Chicago, IL	2024
Member, Neuroaudiology and Central Auditory Processing (NCAP) Topic Committee for the ASHA 2026 Convention, Indianapolis, IN	2026