

Jacie R. McHaney, PhDjacie.mchaney@northwestern.edujrmchaney.github.io

Research Assistant Professor

Roxelyn and Richard Pepper Department of Communication Sciences and Disorders
Northwestern University

Education and Training**Undergraduate:**

| <i>Dates Attended</i> | <i>Institution, Location</i> | <i>Degree, Year</i> | <i>Major</i> |
|------------------------------|--|----------------------------|----------------------------|
| 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:

| <i>Dates Attended</i> | <i>Institution, Location</i> | <i>Degree, Year</i> | <i>Major</i> |
|------------------------------|---|----------------------------|--|
| 2019-2023 | University of Pittsburgh, Pittsburgh, PA | PhD, 2023 | Communication Science and Disorders |

Appointments and Positions

| <i>Years</i> | <i>Institution</i> | <i>Title</i> |
|---------------------|--|------------------------------|
| 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

| <i>Title of Award</i> | <i>Year</i> |
|--|--------------------|
| 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 |

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**).

In-Revision

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

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.

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.
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.

¹ Last name changed to McHaney from Richardson in 2017

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 Multi-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. Neural Tracking of Continuous Speech-in-Noise in Children Who Stutter. Poster to be presented at the 2025 American Speech-Language-Hearing Association Convention, Washington, DC.

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 | <i>Anatomy and Physiology of the Auditory System</i> , Introduction to Neuroscience of Communication, University of Pittsburgh | Undergraduate | Guest Lecturer |
| 2023 | <i>Hearing Loss and Cognition</i> , Neuroscience of Communication, University of Pittsburgh | Graduate | Guest Lecturer |
| 2023 | <i>Frequency-following Responses</i> , Advanced Physiological Assessment, University of Pittsburgh | Graduate | Guest Lecturer |
| 2024 | <i>Frequency-following Responses</i> , Advanced Physiological Assessment, University of Pittsburgh | Graduate | Guest Lecturer |
| 2024 | <i>Coding for Career Growth</i> , Professional Development, Northwestern University | Graduate | Guest Lecturer |
| 2025 | <i>Hands-on Neuroscience Lab Demonstration</i> , Engaging Audiences: Narrative and Neuroscience, Northwestern University | Undergraduate | Guest Instructor |
| 2025 | <i>Hands-on Anechoic Chamber Demonstration</i> , 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. |

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|---------------|-------|---|
| Ja Young Choi | 2023- | Postdoctoral Fellow, Northwestern University. Co-supervised with Bharath Chandrasekaran, PhD. |
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PhD Students

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

AuD Students: Capstone Research

| <i>Name</i> | <i>Year</i> | <i>Status/Noteworthy awards</i> |
|--------------------|--------------------|---|
| 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- | AuD Student, Northwestern University. Co-mentored with Bharath Chandrasekaran, PhD |
| Ishika Choksi | 2024- | AuD Student, Northwestern University. Co-mentored with Bharath Chandrasekaran, PhD |
| Lauren Preston | 2024- | AuD Student, Northwestern University. Co-mentored with Bharath Chandrasekaran, PhD |

Mentored Grant Funding:

| <i>Funding Source</i> | <i>Title</i> | <i>Role</i> | <i>Dates</i> | <i>Amount</i> |
|--|---|--------------------|---------------------|----------------------|
| Summer Undergraduate Research Program, Northwestern University | Effect of Vibrotactile Stimulation on F0 Encoding | Mentor | 04/24-09/24 | \$4000 |

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|-----------|---|--------|-------------|
| 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**

| <i>Funding Source</i> | <i>Grant Number</i> | <i>Title</i> | <i>Role</i> | <i>Dates</i> | <i>Amount</i> |
|---|----------------------------|---|--------------------|---------------------|----------------------|
| 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 |
| 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

| <i>Funding Source</i> | <i>Grant Number</i> | <i>Title</i> | <i>Role</i> | <i>Dates</i> | <i>Amount</i> |
|------------------------------|----------------------------|--|--------------------|---------------------|----------------------|
| NIH-NIDCD | R21DC022914 | The Role of Extended High Frequencies on Speech Perception Challenges in Aging | PI | 04/26-03/29 | \$600,000 |

Prior Grant Support

| <i>Funding Source</i> | <i>Title</i> | <i>Role</i> | <i>Dates</i> | <i>Amount</i> |
|--|--|---------------------|---------------------|----------------------|
| 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 |

| Funding Source | Title | Role | Dates | Amount |
|---|--|-------------|--------------|---------------|
| 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 |
|--|-------------|
| <i>Journal of Speech, Language, and Hearing Research</i> | 2023 |
| <i>Brain and Language</i> | 2023 |
| <i>iScience</i> | 2023 |
| <i>American Journal of Speech-Language Pathology</i> | 2024 |
| <i>Journal of Speech, Language, and Hearing Research</i> | 2024 |
| <i>Brain and Language</i> | 2024 |
| <i>Journal of Neurolinguistics</i> | 2024 |
| <i>NeuroImage</i> | 2024 |
| <i>American Journal of Audiology</i> | 2025 |
| <i>Brain and Language</i> | 2025 |
| <i>Neuromodulation: Technology at the Neural Interface</i> | 2025 |
| <i>Journal of Speech, Language, and Hearing Research</i> | 2025 |
| <i>Bilingualism: Language and Cognition</i> | 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

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

Northwestern University

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| 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

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|---|------|
| Mentor, Career Development Lunch for Trainees, Advances and Perspectives in Auditory Neuroscience Annual Meeting, Chicago, IL | 2024 |
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