# Jacie R. McHaney

jacie.mchaney@northwestern.edu jrmchaney.github.io

#### **EDUCATION & TRAINING**

2015 **A.S.,** General Studies in Science

Austin Community College, Austin, TX

2015 **B.S.,** Psychology, *Psychology Honors*, Biology Minor

The University of Texas at Austin, Austin, TX

2023 **Ph.D.,** Communication Science and Disorders

University of Pittsburgh, Pittsburgh, PA

# **APPOINTMENTS & POSITIONS**

05/2023-06/2023 Research Associate, University of Pittsburgh

Communication Science and Disorders

07/2023-Present Research Assistant Professor, Northwestern University

Roxelyn and Richard Pepper Department of Communication Sciences and

Disorders

### **GRANT SUPPORT**

Extramural 07/2024 – 06/2027 Early Career Researcher Av

Early Career Researcher Award \$600,000

R21DC022031

Role: Co-Investigator (PI: J. Lau)

National Institute for Deafness and Communication Disorders

The Role of Context in the Neural Processing of Speech in Autism Spectrum

Disorder

Pending

07/2025-06/2028 Early Career Researcher Award

\$600,000

R21DC022914

Role: Principal Investigator

National Institute for Deafness and Communication Disorders

The Role of Extended High Frequencies on Speech Perception Challenges in Aging

<u>Intramural</u>

02/2025-01/2026 Ryan Acceleration Funds

\$242,474

Role: Co-PI

Neura-Speech: Bridging the Diagnostic Gap for Hidden Hearing Loss Through

Electrophysiological Speech Markers

**Prior Support** 

08/2015 – 12/2015 Undergraduate Research Fellowship

\$1,000

The University of Texas at Austin

These funds supported research for my undergraduate honors thesis.

09/2019 – 08/2021 Training Program in Auditory and Vestibular Neuroscience

T32DC011499

Role: Predoctoral Trainee (PIs: K. Kandler and B. Yates)

National Institute for Deafness and Communication Disorders

Training in Auditory and Vestibular Neuroscience

02/2022 - 01/2023 University of Pittsburgh Clinical and Translational Science Institute

**Quantitative Methodologies Pilot Program** 

\$25,000

\$85,252

UL1TR001857

Role: Co-Principal Investigator

National Center for Advancing Translational Sciences Decision Strategies in Speech Perception in Aging

05/2022 – 04/2023 NRSA Individual Predoctoral Fellowship to Promote Diversity

in Health-Related Research \$145,608

F31DC020085

Role: Principal Investigator

National Institute for Deafness and Communication Disorders
Neural Mechanisms of Speech Perception in Noise in Middle-Age

11/2023 – 05/2024 Undergraduate Research Assistant Program \$1,600

Role: Mentor

Northwestern University Office of Undergraduate Research

Neurophysiological indices of mechanisms underlying auditory processing These funds supported an undergraduate research assistant for 100 hours of

laboratory work.

04/2024-09/2024 Summer Undergraduate Research Program

\$4,000

Role: Mentor

Northwestern University Office of Undergraduate Research

Effect of Vibrotactile Stimulation on F0 Encoding

These funds supported an undergraduate research assistant for 8 weeks of full-time work over the summer for this project. This was one of the top-rated proposals and

received special funding from an endowment.

# **ABSENCE FROM RESEARCH**

08/2021 – 02/2022

Parental Leave

#### **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*.
- 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. Zink, M. E.\*, Zhen, L.\*, **McHaney, J. R.\***, Klara, J., Yurasits, K., Cancel, V., Flemm, O., Mitchell, C., Datta, J., Chandrasekaran, B., & Parthasarathy, A. (2024). 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).
- 11. **McHaney, J. R.,** Hancock, K. E., Polley, D. B., & Parthasarathy, A. (accepted). Sensory representations and pupil-indexed listening effort provide complementary contributions to multi-talker speech intelligibility. *Scientific Reports*.

#### **Archived Pre-prints**

- 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. Guo, Z.\*, **McHaney**, **J. R.\***, Parthasarathy, A., & Chandrasekaran, B. (2024). Reduced neural distinctiveness of speech representations in the middle-aged brain. *bioRxiv*. doi: 10.1101/2024.08.28.609778. (\*co-first authors).

## **CONFERENCE POSTER PRESENTATIONS**

- 1. Koski, J. E., **Richardson, J. B.**<sup>†</sup>, 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 25<sup>th</sup> Annual Meeting, Boston, MA.

<sup>&</sup>lt;sup>†</sup> Last name changed to McHaney from Richardson in 2017

- 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 10<sup>th</sup> 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 12<sup>th</sup> 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 179<sup>th</sup> 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 12<sup>th</sup> 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 45<sup>th</sup> 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 45<sup>th</sup> 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.** & Chandrasekaran, B. (March 2023). Lexical knowledge facilitates phoneme categorization at intermediate noise levels. Poster presented at the American Auditory Society's 50<sup>th</sup> Annual Scientific & Technology Conference, Scottsdale, AZ.
- 18. 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 to be presented at the American Academy of Audiology 2023 + HearTECH Expo, Seattle, WA.
- 19. 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*.
- 20. 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.
- 21. 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.
- 22. **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.
- 23. 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.
- 24. 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.
- 25. 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 to be presented at the Sixteenth Annual Meeting of the Society for Neurobiology of Language, Brisbane, Australia.
- 26. 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 to be presented at the 2024 American Speech-Language-Hearing Association Convention, Seattle, WA.
- 27. 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 abstract submitted for consideration to the Society for Research in Child Development 2025 Biennial Meeting, Minneapolis, MN.

#### **CONFERENCE PODIUM PRESENTATIONS**

Chicago, IL

1. **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.

Neural Mechanisms of Speech Perception in Noise in Middle-age, Ear Day, RUSH University,

## **INVITED PRESENTATIONS**

Mar 2024

| Jan 2025  | Rethinking speech perception challenges in adults without hearing loss, ContinuEd, AudiologyOnline and Association of VA Audiologists, Virtual  |  |  |
|-----------|---|--|--|
| PRESENTAT | PRESENTATIONS   |  |  |
| Aug 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. |  |  |
| Dec 2019  | Aging, cognition, and speech processing, Auditory and Vestibular Neuroscience T32 Seminar, University of Pittsburgh, Pittsburgh, PA.  |  |  |
| Mar 2020  | Cortical Tracking of Speech in Older Adults, Auditory and Vestibular Neuroscience T32 Retreat, University of Pittsburgh, Pittsburgh, PA.  |  |  |
| Apr 2020  | Cortical Tracking of Speech in Older Adults, Department of Communication Science and Disorders Research Round Table Seminar, University of Pittsburgh, Pittsburgh, PA.                            |  |  |

# Jan 2021 Working Memory During Non-Native Speech Category Learning, Auditory and Vestibular Neuroscience T32 Seminar, University of Pittsburgh, Pittsburgh, PA.

- Feb 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.
- Apr 2021 Working Memory Influences Speech Category Learning: A Pupillometry Study, Auditory and Vestibular Neuroscience T32 Annual Retreat, University of Pittsburgh, PA.
- Nov 2022 Sensory and Cognitive Factors Underlying Individual Variability in Speech in Noise Perception, Hearing and Cookies Seminar Series, University of Pittsburgh, Pittsburgh, PA.
- Aug 2023 Neural encoding of the fundamental frequency supports the decisional processes in speech in noise categorization, Mini-symposium on Speech processing in challenging listening environments:

  Towards a multi-dimensional framework, Northwestern University, Evanston, IL.

#### **MEDIA COVERAGE**

- FACETS. (2019). Team-Based Science at its best. [press release]. Retrieved from <a href="https://issuu.com/pittshrs/docs/facets\_spring\_19\_pdf/28">https://issuu.com/pittshrs/docs/facets\_spring\_19\_pdf/28</a>
- Inverse (2020). Scientists discover brain hack that improves language abilities by 13%. Retrieved from Scientists discover brain hack for language learning (inverse.com)
- 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
- 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

#### **HONORS & AWARDS**

| 2012 | Phi Theta Kappa Honor Society                              |
|------|--|
| 2015 | University Honors, The University of Texas at Austin       |
| 2015 | Psi Chi International Honor Society in Psychology          |
| 2022 | Society for Neurobiology of Language Travel Award          |
| 2022 | Gordon Research Conference – Auditory System Travel Funds  |
| 2023 | Association for Research in Otolaryngology Childcare Grant |
| 2024 | Association for Research in Otolaryngology Childcare Grant |
|      |  |

# **PROFESSIONAL MEMBERSHIPS**

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

### **AD-HOC JOURNAL REVIEWER**

| 2023 | Journal of Speech, Language, and Hearing Research |
|------|---|
| 2023 | Brain and Language                                |
| 2023 | iScience  |
| 2024 | American Journal of Speech-Language Pathology     |
| 2024 | Journal of Speech, Language, and Hearing Research |
| 2024 | Journal of Neurolinguistics                       |
| 2024 | Neurolmage  |

### **SERVICE**

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2019-2021 **PhD Student Representative**, Communication Science and Disorders

2020-2021 **Organizer,** Communication Science and Disorders Research Round Table Seminar

# Northwestern University

2023 Organizer, Mini-symposium on Speech processing in challenging listening environments:

Towards a multi-dimensional framework

2024 – Present Member, Committee for Data Collection of CSD Department Metrics

2024 **Judge,** Undergraduate Research and Creative Arts Exposition

2024 – Present Reviewer, Northwestern University Undergraduate Research Grant Committee

Extramural

2024 Mentor, Career Development Lunch for Trainees, Advances and Perspectives in Auditory

Neuroscience Annual Meeting, Chicago, IL

# **TEACHING**

| University of Pittsbu | rgh  |
|-----------------------|--|
| 2021                  | Assistant Instructor, Neuroscience of Communication (CSD 2110)                                     |
| 2021                  | Guest Lecturer, A&P of the Auditory System, Introduction to Neuroscience of                        |
|                       | Communication (CSD 1237)   |
| 2023                  | Guest Lecturer, Hearing Loss and Cognition, Neuroscience of Communication (CSD 2110)               |
| 2023                  | <b>Guest Lecturer,</b> Frequency-following Responses, Advanced Physiological Assessment (CSD 2252) |
| 2024                  | <b>Guest Lecturer,</b> Frequency-following Responses, Advanced Physiological Assessment (CSD 2252) |

# Northwestern University

2024

Guest Lecturer, Coding for Career Growth, Professional Development for PhD Students

(CSD 545)

#### **MENTORSHIP**

#### **Postdoctoral Associates**

Northwestern University

Zhe-chen Guo, PhD 2023-2023-Ja Young Choi, PhD

#### **PhD Students**

Northwestern University

2023-Shengyue Xiong

# **Doctorate of Audiology Students**

University of Pittsburgh

2021-2022 Victoria Cancel 2022-2023 Kimberly Yurasits

### Northwestern University

2024-Mollee Feeney 2024-Ishika Choksi Lauren Preston 2024-

# **Undergraduate Research Assistants**

| Onacigiadaa                   | to nescaron Assistants    |                        |                                     |
|-------------------------------|---------------------------|------------------------|-------------------------------------|
| University of Texas at Austin |                           | 2016-2017              | Danielle De La Rosa                 |
| 2016                          | Karen Lin                 | 2016-2017              | Abigail Hall                        |
| 2016                          | Kay Torriente             | 2016-2017              | Megan Burke                         |
| 2016                          | Isabelle Arseneau Bruneau | 2017-2018              | Sarina Lieberman                    |
| 2016-2017                     | Stephen Slaughter         | 2017-2018              | Sarah Campbell                      |
| 2016-2017                     | Dominique Arzola          | 2017-2018              | Priyanka Deshmane                   |
| University of Pittsburgh      |                           | 2022                   | Madison Andreano                    |
| 2019-2020                     | Danielle Wu               | 2022                   | Olivia Flemm                        |
|                               | Barriotto VVa             | 2022 2022              | Canala Anala anon                   |
| 2019-2020                     | Laura Fahs                | 2022-2023              | Sarah Anthony                       |
| 2019-2020                     | Laura Fahs<br>Olivia Gall | 2022-2023              | Saran Anthony<br>Shaina Wasileski   |
| 2019-2020                     | Olivia Gall               |                        | •                                   |
| 2019-2020<br>2019-2020        | Olivia Gall<br>Inca Malik | 2022-2023              | Shaina Wasileski                    |
| 2019-2020                     | Olivia Gall               | 2022-2023<br>2022-2023 | Shaina Wasileski<br>Katie Bergstrom |

# Northwestern University

2022

2022

| 2023- | Alexa Nuñez Magaña | 2024- | Michelle Sun           |
|-------|--------------------|-------|------------------------|
| 2023- | Avery Leblanc      | 2024- | Amanda Tepedino        |
| 2023- | Beza Abate         | 2024- | Melissa Yankson Nyarko |
| 2024- | Adelina Jembere    | 2024- | Claribel Osei          |

2022-2023

2022-2023

Jasmine Cardino

Claire Mitchell

2024-Jaimie Hong

### **High School Student Researchers**

| 2016      | Emma Green            |
|-----------|-----------------------|
| 2021-2022 | Karen Linares Mendoza |
| 2022      | Marysia Brown         |
| 2022      | Cassidy Mineo         |

Rebecca Kime

Angelina DiNardo

2022 Zoey Miller

2022 Savitha Thompson

# **DIVERSITY AND INCLUSION**

| 2021 | Hosted virtual lab tour at University of Pittsburgh for Innovative Mentoring and Professional Advancement through Cultural Training (IMPACT) program at Case Western Reserve University in collaboration with Hampton University, a historically black university.  |
|------|---|
| 2022 | Co-mentor for Karen Linares Mendoza, recipient of a diversity supplement from NIDCD to conduct research through a summer internship.  |
| 2022 | Mentor for two undergraduate CSD students from the Innovative Mentoring and Professional Advancement through Cultural Training (IMPACT) program through a summer research internship at the University of Pittsburgh.   |
| 2024 | Faculty sponsor for a student in the Emerging Scholars Program at Northwestern University, a research grant for first year students who identify as first generation, lower income, people of color, and/or marginalized with a focus on providing opportunities for students to get started in research. |