

# Hannah P. Rowe, Ph.D., CCC-SLP

**Position:** Assistant Professor in Communication Sciences and Disorders

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## RESEARCH AND TEACHING INTERESTS

### Research

- Improving diagnostic assessment and treatment of speech motor disorders
- Identifying subtypes/profiles within and across speech motor populations
- Leveraging artificial intelligence to develop speech-based biomarkers
- Investigating neural and physiological correlates of speech motor control

### Teaching

- Speech science/acoustics
- Neuromotor speech disorders
- Neuroanatomy and neurophysiology
- Fluency disorders

## EDUCATION

Date	Degree	Institution	Location
2022-2024	Postdoc in <i>Speech Neuroscience</i>	<b>Boston University</b> Advisor: Dr. Frank Guenther	Boston, MA
2018-2022	PhD in <i>Rehabilitation Sciences</i>	<b>MGH Institute of Health Professions (MGH IHP) (GPA: 4.0)</b> Dissertation: Articulatory Phenotypes in Speech Motor Disorders: Towards an Empirical Framework Committee: Drs. Jordan Green (advisor), Adam Lammert, Dagmar Sternad, and Robert Hillman	Charlestown, MA
2014-2017	MA in <i>Speech-Language Pathology</i>	<b>The George Washington University (GWU) (GPA: 3.95)</b> Thesis: Typical Disfluencies in the Speech of 30-Month-Old Spanish-English Bilinguals Committee: Drs. Shelley Brundage (advisor), Cynthia Core, and Nan Bernstein Ratner	Washington, DC
2010-2014	BA in <i>Psychology with Linguistics Minor</i>	<b>Dartmouth College (Third Honor List)</b>	Hanover, NH

## PROFESSIONAL EXPERIENCE

Date	Position	Lab/University	Description	Location
2024-present	<b>Assistant Professor</b>	Northeastern University	Assistant Professor in Communication Sciences and Disorders, Director of the Advancing Speech Communication through Engineering, Neuroscience, and Technology (ASCENT) Lab	Boston, MA
2022-2024	<b>Postdoctoral Research Fellow</b>	Speech Neuroscience Lab (Dr. Frank Guenther) at Boston University	Recruiting participants, conducting studies, and analyzing data from speakers with speech motor disorders	Boston, MA
2021-2022	<b>Research Assistant</b>	Brain Modulation Lab (Dr. Mark Richardson) at MGH	Evaluated phoneme alignment in spectrograms of speech of speakers with Parkinson's disease undergoing surgery for deep brain stimulation	Boston, MA

2018-2022	<b>Doctoral Research Fellow</b>	Speech and Feeding Disorders Lab (Dr. Jordan Green) at MGH IHP	Recruited participants, conducted studies, and analyzed data from speakers with speech motor disorders	Charlestown, MA
2014-2017	<b>Research Assistant</b>	Language Development Lab (Dr. Cynthia Core) and Stuttering Lab (Dr. Shelley Brundage) at GWU	Performed phonetic transcriptions, coded disfluencies, and created speech rate scripts for bilingual language data	Washington, DC
2012	<b>Undergraduate Research Fellow</b>	Social Imitation Lab (Dr. Catherine Norris) at Dartmouth College	Conducted literature review and piloted study on social imitation and race	Hanover, NH

## PUBLICATIONS

### Peer Reviewed Journal Articles

Zaninotto, A., Makary, M., **Rowe, H.P.**, Eshghi, M., Tseng, C.-E., Chan, J., Zurcher, N.R., Hooker, J., Atassi, N., Loggia, M., Lewis, A., Reegan, M., Green, J.R., & Babu, S. (In Press). Motor speech impairment in ALS is associated with multiregional cortical thinning beyond primary motor cortex. *Frontiers in Neurology*.

Connaghan, K.P., Green, J.R., Eshghi, M., Haenssler, A.E., Burke, K.M., Sheier, Z.A., Clark, A., Iyer, A., Richburg, B., **Rowe, H.P.**, Okada, J., Johnson, S.A., Onnela, J.-P., & Berry, J.D. (2024). The relationship of rate and pause features to the communicative participation of people living with ALS. *Muscle and Nerve*, 70(2), 217-225.

**Rowe, H.P.**, Tourville, J.A., Nieto-Castanon, A., Garnett, E.O., Chow, H.M., Chang, C.-E., & Guenther, F. (2024). Evidence for planning and motor subtypes of stuttering based on resting state functional connectivity. *Brain and Language*, 253, 105417.

Kao, T.H., **Rowe, H.P.**, Green, J.R., Stipancic, K.L., Sharma, N., de Guzman, J.K., Supnet-Wells, M.L., Acunad, P., & Perry, B.J. (2024). Differentiating between X-linked dystonia-parkinsonism phenotypes using acoustic analysis of non-speech task. *Parkinsonism and Related Disorders*, 120, 105991.

**Rowe, H.P.**, Stipancic, K.L., Campbell, T.C., Yunusova, Y., & Green, J.R. (2023). The association between longitudinal declines in phonetic accuracy and speech intelligibility in amyotrophic lateral sclerosis. *Clinical Linguistics and Phonetics*, 38(3), 227-248.

Maffei, M., Green, J.R., Murton, O., Yunusova, Y., **Rowe, H.P.**, Wehbe, F., Diana, K., Nicholson, K., Berry, J.D., & Connaghan, K.P. (2023). Cepstral/spectral measures of dysphonia in amyotrophic lateral sclerosis (ALS). *Journal of Speech, Language, and Hearing Research*, 1-16.

**Rowe, H.P.**, Gochyyev, P., Lammert, A.C., Lowit, A., Spencer, K.A., Dickerson, B.C., Berry, J., & Green, J.R. (2022). The efficacy of acoustic-based articulatory phenotyping for characterizing and classifying divergent neurodegenerative diseases. *Journal of Neural Transmission*, 129, 1487-1511.

**Rowe, H.P.**, Shellikeri, S., Yunusova, Y., Chenausky, K., & Green, J.R. (2022). Quantifying articulatory impairments in neurodegenerative motor diseases: A scoping review and meta-analysis of interpretable acoustic features. *International Journal of Speech-Language Pathology*, 25(4), 486-499.

Gutz, S.E., **Rowe, H.P.**, Tilton-Bolowsky, V., & Green, J.R. (2022). Speaking with a KN95 face mask: Speaker adaptation and strategies to improve intelligibility. *Cognitive Research: Principles and Implications*, 7(73), 1-20.

**Rowe, H.P.,** Gutz, S.E., Maffei, M.F., Tomanek, K., & Green, J.R. (2022). Characterizing dysarthria diversity for automatic speech recognition: A clinical perspective. *Frontiers in Computer Science (Perspectives in Human-Media Interaction)*, 4, 1-8.

Ramanarayanan, V., Lammert, A.C., **Rowe, H.P.,** Quatieri, T.F., & Green, J.R. (2022). Speech as a biomarker: Opportunities, interpretability, and challenges. *ASHA Perspectives in Speech Science*, 7, 276-283.

**Rowe, H.P.,** Stipancic, K.L., Lammert, A.C., & Green, J.R. (2021). Validation of an acoustic-based framework of speech motor control: Assessing criterion and construct validity using kinematic and perceptual measures. *Journal of Speech, Language, and Hearing Research*, 64(12), 4718-4735.

Stipancic, K.L., Palmer, K., **Rowe, H.P.,** Yunusova, Y., & Green, J.R. (2021). "You say severe, I say mild": Toward an empirical classification of dysarthria severity. *Journal of Speech, Language, and Hearing Research*, 64(12), 4736-4753.

Rong, P., Yunusova, Y., Eshghi, M., **Rowe, H.P.,** & Green, J.R. (2020). A speech measure for early stratification of fast and slow progressors of bulbar amyotrophic lateral sclerosis: Lip movement jitter. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21(1-2), 34-41.

Brundage, S. & **Rowe, H.** (2018). Rates of typical disfluency in the conversational speech of 30-month-old Spanish-English simultaneous bilinguals. *American Journal of Speech-Language Pathology*, 27(3S), 1287-1298.

### Peer Reviewed Conference Proceedings

Gutz, S.E., **Rowe, H.P.,** & Green, J.R. (2021). Speaking with a KN95 face mask: ASR performance and speaker compensation. *Interspeech*, 4798-4802.

**Rowe, H.P.,** Gutz, S.E., Maffei, M.F., & Green, J.R. (2020). Acoustic-based articulatory phenotypes of amyotrophic lateral sclerosis and Parkinson's disease: Towards an interpretable, hypothesis-driven framework of motor control. *Interspeech*, 4816-4820.

**Rowe, H.P.** & Green, J.R. (2019). Profiling speech motor impairments in persons with amyotrophic lateral sclerosis: An acoustic-based approach. *Interspeech*, 4509-4513.

### Magazine and Web Articles

**Rowe, H.P.** (2024, April). Snapshot: What is articulation? National Ataxia Foundation.  
<https://www.ataxia.org/scasource/>

### PRESENTATIONS

#### Invited Talks

**Rowe, H.P.,** Lea, C., & Glasser, A. (2024, February). "I'm sorry, I didn't understand": How voice AI poses barriers and some solutions. Invited talk at the 2024 American Association for the Advancement of Science, Denver, Colorado.

**Rowe, H.P.** & Case, J. (2023, November). *Innovate your Clinical Practice: How auditory-perceptual, acoustic, and kinematic measures can work together to inform assessment and treatment.* Invited talk at the 2023 Annual Convention of the American Speech-Language-Hearing Association, Boston, Massachusetts.

**Rowe, H.P.** & Stipancic, K.L. (2020, May). *Leveraging principles of motor learning to enhance speech outcomes.* Talk at the 2020 Spaulding Rehabilitation Hospital Continuing Education Meeting, Boston, Massachusetts.

#### Oral Presentations

**Rowe H.P.,** Frankford, S.A., Simmatis, L., Tourville, J.A., Nieto-Castanon, A., & Guenther, F.H. (2024, December).

*Exploring associations between different stuttering types and functional connectivity in feedback and feedforward control networks.* Talk at the 2024 Annual Convention of the American Speech-Language-Hearing Association, Seattle, Washington.

**Rowe, H.P.,** Lowit, A., Spencer, K.A., & Green, J.R. (2022, February). *Exploring the validity and diagnostic utility of acoustic-based articulatory impairment phenotypes in divergent speech motor disorders.* Talk at the 2022 Motor Speech Conference, Charleston, South Carolina.

**Rowe, H.P.,** Stipanovic, K.L., & Green, J.R. (2021, November). *Articulatory phenotypes of speech motor control: A perceptual validation study.* Talk at the 2020 Annual Convention of the American Speech-Language-Hearing Association, Washington, D.C.

Maffei, M.F., Green, J.R., Yunusova, Y., **Rowe, H.P.,** Cordella, C., Murton, O., Nicholson, K., Berry, J.D., & Connaghan, K.P. (2021, November). *Acoustic measures of phonatory impairment in amyotrophic lateral sclerosis (ALS).* Talk presented by Marc Maffei at the 2021 Annual Convention of the American Speech-Language-Hearing Association, Washington, D.C.

**Rowe, H.P.,** Gutz, S.E., Maffei, M.F., & Green, J.R. (2020, October). *Acoustic-based articulatory phenotypes of amyotrophic lateral sclerosis and Parkinson's disease: Towards an interpretable, hypothesis-driven framework of motor control.* Talk at the 2020 Interspeech Conference, Shanghai, China (Virtual). (Funded).

## Poster Presentations

Kim, J.S., **Rowe H.P.,** Tourville, J.A., Wan, H., & Guenther, F.H. (2024, December). *Speech motor sequence learning of multisyllabic nonwords in adults who stutter and neurotypical speakers.* Poster at the 2024 Annual Convention of the American Speech-Language-Hearing Association, Seattle, Washington.

**Rowe, H.P.,** Frankford, S.A., & Guenther, F.H. (2024, February). *The relationship between disfluency types and resting state functional connectivity in the feedback and feedforward control networks.* Poster at the 2024 Motor Speech Conference, San Diego, California.

**Rowe, H.P.,** Tourville, J.A., Nieto-Castanon, A., Garnett, E.O., Chow, H.M., Chang, S.-E., & Guenther, F.H. (2023, September). *Resting state functional connectivity reveals potential motor- and planning-based subtypes of stuttering.* Poster at the 13th Oxford Dysfluency Conference, Oxford, England (Canceled).

**Rowe, H.P.,** Tourville, J.A., Nieto-Castanon, A., Garnett, E.O., Chow, H.M., Chang, S.-E., & Guenther, F.H. (2023, June). *Preliminary evidence for motor- and planning-based subtypes of stuttering based on resting state functional connectivity abnormalities.* Poster at the 2023 Boston Speech Motor Control Symposium, Boston, Massachusetts.

Maffei, M.F., Green, J.R., Murton, O., Yunusova, Y., **Rowe, H.P.,** Wehbe, F., Diana, K., Nicholson, K., Berry, J.D., & Connaghan, K.P. (2022, December). *Cepstral/spectral measures of voice quality in amyotrophic lateral sclerosis.* Poster presented by Marc Maffei at the 33rd International Symposium on ALS/MND (Virtual).

Haenssler, A.E., Green, J.R., Maffei, M., **Rowe, H.P.,** Kao, T., Scheier, Z., Clark, A., Burke, K.M., Onnela, J.P., Berry, J.D., & Connaghan, K.P. (2022, December). *Approaches to evaluating speech severity of remote speech recordings.* Poster presented by Abigail Haenssler at the 33rd International Symposium on ALS/MND (Virtual).

Kao, T.H., Perry, B.J., **Rowe, H.P.,** & Green, J.R. (2022, November). *Differentiating between phenotypes of X-linked dystonia-parkinsonism using acoustic analysis of non-speech task.* Poster presented by Tabitha Kao at the 2022 Annual Convention of the American Speech-Language-Hearing Association, New Orleans, Louisiana.

**Rowe, H.P.,** Gochyyev, P., Lowit, A., Spencer, K.A., Lammert, A.C., & Green, J.R. (2022, August). *The efficacy of acoustic-based articulatory impairment phenotypes for characterizing and classifying divergent*

*neurodegenerative diseases*. Poster at the 2022 International Conference on Speech Motor Control, Groningen, The Netherlands.

**Rowe, H.P.,** Stipancic, K.L., Campbell, T.F., & Green, J.R. (2022, August). *The association between longitudinal declines in phonetic accuracy and speech intelligibility in amyotrophic lateral sclerosis*. Poster at the 2022 International Conference on Speech Motor Control, Groningen, The Netherlands.

Maffei, M.F., Chenausky, K.V., Gutz, S.E., **Rowe, H.P.,** Tager-Flusberg, H., & Green, J.R. (2022, February). *Correlations between perceptual speech features and language in minimally verbal children with autism spectrum disorder*. Poster at the 2022 Motor Speech Conference, Charleston, South Carolina.

**Rowe, H.P.,** Stipancic, K.L., Lammert, A.C., & Green, J.R. (2021, June). *Using perceptual and kinematic measures to validate an acoustic-based framework of speech motor control*. Poster at the 2021 Boston Speech Motor Control Symposium, Boston, Massachusetts.

Coladarci, J., **Rowe, H.P.,** Connaghan, K.P., Berry, J.D., & Green, J.R. (2021, June). *Longitudinal remote analysis of articulatory motor performance in individuals with amyotrophic lateral sclerosis (ALS)*. Poster presented by Jenna Coladarci at the 2021 Boston Speech Motor Control Symposium, Boston, Massachusetts.

Connaghan, K.P., **Rowe, H.P.,** Okada, J., Richburg, B., Berry, J.D., & Green, J.R. (2021, June). *The association of acoustic measures of speech function with communicative participation in ALS*. Poster presented by Kate Connaghan at the 2021 Boston Speech Motor Control Symposium, Boston, Massachusetts.

**Rowe, H.P.,** Maffei, M.F., Gutz, S.E., Lammert, A.C., & Green, J.R. (2020, December). *Profiling speech motor control: Validation of novel and existing acoustic features*. Poster at the 2020 International Seminar on Speech Production, Providence, Rhode Island. (Funded). (Received Award).

Connaghan, K.P., Green, J.R., **Rowe, H.P.,** Richburg, B., Onella, J.P., & Berry, J.D. (2020, December). *The association of bulbar impairment and communicative participation in ALS*. Poster presented by Kate Connaghan at the 31st International Symposium on ALS/MND (Virtual).

**Rowe, H.P.,** Stipancic, K.L., & Green, J.R. (2020, November). *Articulatory phenotypes of speech motor control: A perceptual validation study*. Abstract accepted at the 2020 Annual Convention of the American Speech-Language-Hearing Association, San Diego, California (Canceled).

Connaghan, K.P., Green, J.R., **Rowe, H.P.,** Collins, E., Richburg, B., Onella, J.P., & Berry, J.D. (2020, September). *The impact of bulbar impairment on the communicative participation of people with ALS*. Poster presented by Kate Connaghan at the 2020 Annual Northeast ALS Consortium Meeting (Virtual).

**Rowe, H.P.** & Green, J.R. (2020, February). *Acoustic profiles of speech motor control: Towards a differential diagnosis of dysarthria subtypes*. Poster at the 2020 Motor Speech Conference, Santa Barbara, California.

**Rowe, H.P.** & Green, J.R. (2019, September). *Profiling speech motor impairments in persons with amyotrophic lateral sclerosis: An acoustic-based approach*. Poster at the 2019 Interspeech Conference, Graz, Austria.

- Rowe, H.P.,** Stipancic, K.L., Eshghi, M., & Green, J.R. (2019, June). *Speech motor impairment profiling based on acoustic features*. Poster at the 2019 Boston Speech Motor Control Symposium, Boston, Massachusetts. (Received Award).
- Green, J.R., Connaghan, K.P., Yunusova, Y., Stipancic, K.L., Gutz, S.E., **Rowe, H.P.,** Cordella, C., & Berry, J.D. (2018, November). *Exploring voice measures to track disease onset and progression in amyotrophic lateral sclerosis (ALS)*. Poster presented by Kate Connaghan at the 29th International Symposium on ALS/MND, Glasgow, Scotland.
- Green, J.R., Connaghan, K.P., Yunusova, Y., Stipancic, K.L., Gutz, S.E., **Rowe, H.P.,** Cordella, C., & Berry, J.D. (2018, May). *Vocal changes across disease progression in amyotrophic lateral sclerosis*. Poster presented by Kate Connaghan at the 2018 Acoustical Society of America Annual Meeting, Minneapolis, Minnesota.
- Rowe, H.** & Brundage, S. (2017, September). *Typical disfluencies in speech of Spanish-English bilinguals at 30 months*. Poster at the 11th Oxford Dysfluency Conference, Oxford, England.
- Rowe, H.,** Corcoran, T., & Brundage, S. (2016, November). *Typical disfluencies in speech of Spanish-English bilinguals at 30 months*. Poster at the 2016 Annual Convention of the American Speech-Language-Hearing Association, Philadelphia, Pennsylvania.

<b>GRANTS</b>				
<b>Date</b>	<b>Grant</b>	<b>Organization</b>	<b>Description</b>	<b>Location</b>
2022	<b>National Research Service Award Institutional Research Training Grant (T32) (PI: Dean Moore)</b>	National Institute of Deafness and Other Communication Disorders (NIDCD) section of National Institute of Health (NIH)	To develop and/or enhance research training opportunities for individuals interested in careers in biomedical, behavioral and clinical research that are relevant to NIH mission <b>(\$53,000 per year for 2 years)</b>	Boston, MA
2021	<b>Raymond H. Stetson Scholarship in Phonetics and Speech Science</b>	Acoustical Society of America (ASA)	For graduate study and research in scientific areas related to field of phonetics and speech production <b>(\$30,000)</b>	Charlestown, MA
2021	<b>Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) PhD Scholarship</b>	CAPCSD	For students pursuing PhD and who are focused on academic career in communication sciences and disorders <b>(\$20,000)</b>	Charlestown, MA
2021	<b>Ruth L. Kirschstein Predoctoral Individual National Research Service Award (F31)</b>	NIDCD (part of NIH)	For promising predoctoral students with potential to develop into productive, independent research scientists <b>(\$29,520 per year for 3 years)</b>	Charlestown, MA
2018	<b>Dr. David Krebs Doctoral Research Fund Scholarship</b>	MGH IHP	For MGH IHP doctoral students who demonstrate research potential in motor control <b>(\$500)</b>	Charlestown, MA
2017	<b>Shenkman Career Services Student Professional and Career Development Grant</b>	GWU	For GWU graduate students who demonstrate drive in professional and career development <b>(\$250)</b>	Washington, D.C.
2015	<b>Joan Roddy Regnell</b>	GWU	For GWU graduate students who	Washington,

	<i>Fellowship in Speech and Hearing Sciences</i>		demonstrate clinical potential in voice studies ( <b>\$10,000</b> )	D.C.
2011	<i>Undergraduate Research Grant in Psychological and Brain Sciences</i>	Dartmouth College	For Dartmouth College students who demonstrate promising research in detailed proposal ( <b>\$4,000</b> )	Hanover, NH

## HONORS/AWARDS

Date	Honor/Award	Organization	Description	Location
2020	<i>Outstanding Student Presentation Award at International Seminar on Speech Production (ISSP)</i>	Haskins Laboratories	For poster presentation at ISSP	Providence, RI (virtual)
2020	<i>Travel Scholarship for ISSP</i>	National Science Foundation (NSF)	For travel to ISSP	Providence, RI (virtual)
2020	<i>Travel Scholarship for Interspeech Conference</i>	International Speech Communication Association (ISCA)	For travel to Interspeech Conference	Shanghai, China (virtual)
2020	<i>Academy of Neurologic Communication Disorders and Sciences (ANCDs) Fellowship Award</i>	ANCDs	For master's or doctoral students specializing in clinical neurologically-based communication disorders and sciences	San Diego, CA (virtual)
2019	<i>Best Poster Design Award at Boston Speech Motor Control Symposium (BSMCS)</i>	Boston University	For poster presentation at BSMCS	Boston, MA
2010-2014	<i>Dartmouth College Athletics</i>	Dartmouth College	Competed for 12 Seasons of NCAA Division I Cross Country and Track at Dartmouth College	Hanover, NH

## CLINICAL EXPERIENCE

Date	Position	Organization	Description	Location
2017-2018	<i>Speech-Language Pathology Clinical Fellow</i>	Joy and Laughter Developmental Therapy	Diagnostic evaluation and therapy for children with speech, language, and pragmatic disorders	San Jose, CA
Jan 2017- May 2017	<i>Graduate Clinician</i>	Pediatric Development Center	Diagnostic evaluation and therapy for children with Down syndrome, autism spectrum disorders, orofacial myofunctional disorders, phonological disorders, auditory processing disorder, cerebral palsy, receptive-expressive language disorders, and feeding disorders	Derwood, MD
Aug 2016- Dec 2016	<i>Graduate Clinician</i>	Johns Hopkins Voice Center	Diagnostic evaluation and therapy for adults with presbylaryngis, muscle tension dysphonia, chronic cough, vocal fold paralysis, paradoxical vocal fold movement, laryngitis, nodules, polyps, and dysphagia due to chemoradiation therapy for head and neck cancer	Bethesda, MD & Baltimore, MD
Nov 2015- Apr 2017	<i>Graduate Clinician</i>	GWU Speech and Hearing	<b>Fluency Disorders (adult):</b> stuttering and cluttering disorders <b>Aural Rehabilitation (adult):</b> experience with hearing aid and	Washington, D.C.

Center cochlear implants users  
**Voice Treatment (adult):** male-to-female transgender voice  
**Neurologic Communication Disorders (adult):** aphasia, traumatic brain injury, acquired apraxia of speech, and dysarthria  
**Accent Modification and Literacy (adult):** accent reduction for students and literacy training  
**Audiology (adult):** presbycusis and acoustic neuromas  
**Pediatric Speech and Language Disorders (pediatric):** telepractice experience with Down syndrome  
**Speech Motor Disorders (pediatric):** childhood apraxia of speech

## VOLUNTEER EXPERIENCE

Date	Position	Organization	Description	Location
2013	<i>Undergraduate Intern</i>	Lurie Center for Autism	Led social groups and prepared materials for speech-language pathologists	Lexington, MA

## MENTORING EXPERIENCE

Date	Position	Organization	Description	Location
2022-present	<i>Mentor to Boston University Undergraduate Research Assistants (Mia Graziano, Hannah Indiviglio, Adanna Thomas)</i>	Speech Neuroscience Lab at Boston University	Mentor for project on using tDCS to examine neural underpinnings of speech motor learning	Boston, MA
2021-2022	<i>Mentor to Postgrad Research Assistant (Joycelyn Wang)</i>	Speech and Feeding Disorders Lab at MGH IHP	Mentor for project on acoustic analysis using Praat and phonetic analysis using PEPPER	Charlestown, MA
2021-2022	<i>Mentor to MGH IHP Doctoral Student (Tabitha Kao)</i>	Speech and Feeding Disorders Lab at MGH IHP	Mentor for project on using acoustic analysis to explore articulatory motor control in speakers with X-linked dystonia parkinsonism	Charlestown, MA
2021	<i>Mentor to Suffolk University Undergraduate Research Intern (Jenna Coladarsi)</i>	Speech and Feeding Disorders Lab at MGH IHP	Mentor for project on exploring longitudinal changes in articulatory motor control in speakers with ALS	Charlestown, MA
2020	<i>Mentor to Postgrad Research Assistant (June Okada)</i>	Speech and Feeding Disorders Lab at MGH IHP	Mentor for project on acoustic analysis using Praat	Charlestown, MA
2013-2014	<i>Tutor and Mentor</i>	Summer Enrichment at Dartmouth (SEAD) Program	Academic tutor and mentor for students from low-income backgrounds	Hanover, NH
2011	<i>Camp Counselor for Individuals with Autism</i>	Camp Akeela	Counselor for children and teenagers with autism spectrum disorder	Thetford, NH



## TEACHING EXPERIENCE

Date	Position	Organization	Description	Location
2024	<i>Guest Lecturer</i>	Boston University	Guest lectured for SAR SH 732: Fluency Disorders (Professor: Caroline Brinkert, MS, CCC- SLP) in Department of Speech, Language and Hearing Sciences	Boston, MA
2023	<i>Teaching Assistant</i>	Boston University	Teaching assistant for SAR SH 732: Fluency Disorders (Professor: Diane Constantino, MS, CCC- SLP, BCS-F) in Department of Speech, Language and Hearing Sciences	Boston, MA
2019	<i>Guest Lecturer</i>	Emerson College	Guest lectured for CD650: Motor Speech Disorders (Professor: Bridget Perry, PhD, CCC-SLP) in Department of Communication Sciences and Disorders	Boston, MA
2019	<i>Teaching Assistant</i>	MGH IHP	Teaching assistant for CD833: Neuromotor Speech Disorders (Professor: Kaila Stipancic, PhD, CCC- SLP) in Department of Communication Sciences and Disorders	Charlestown, MA

## PROFESSIONAL SERVICE

### Committees

ASHA 2023 Planning Committee - Motor Speech Disorders Across the Lifespan

### Ad-Hoc Reviewer

Folia Phoniatica et Logopaedica  
Frontiers in Rehabilitation Sciences (Disability, Rehabilitation, and Inclusion)  
IEEE Journal of Biomedical and Health Informatics  
IEEE Open Journal of Engineering in Medicine and Biology  
Journal of Fluency Disorders  
Journal of Speech, Language, and Hearing Research  
PLOS ONE

## PROFESSIONAL DEVELOPMENT

Date	Activity
2023	<b>ASHA's Research Mentoring Network: Lessons for Success</b>
2023	<b>NIH K-Writing Workshop at Harvard University</b>
2022	<b>Learning the CONN Toolbox for Functional Connectivity Analysis</b>
2021	<b>ASHA's Research Mentoring Network: Pathways Program</b>
2020	<b>NIH F31-Writing Course at MGH IHP</b>
2020	<b>Power, Privilege, and Positionality Workshop</b>

## MEMBERSHIPS AND LICENSURE

Date	Membership or Licensure
2018-present	<b>Member of American Speech-Language-Hearing Association (ASHA)</b>
2018-present	<b>ASHA Certificate of Clinical Competence (CCC) in Speech-Language Pathology</b>
2014-present	<b>Society for the Neurobiology of Language</b>

2020-2022	Student Member of Institute of Electrical and Electronics Engineers (IEEE)
2020-2022	Student Member of Academy of Neurologic Communication Disorders and Sciences (ANCDS)
2019-2022	Student Member of International Speech Communication Association (ISCA)
2019-2022	Student Member of Acoustical Society of America (ASA)
2018-2019	California State License in Speech and Language Pathology (#27164)

## TECHNICAL SKILLS

Area	Skills
<i>Acoustics</i>	Audacity, Praat, TF32
<i>Kinematics</i>	electromagnetic articulography (EMA), optical motion capture, Speech Movement Analysis for Speech and Hearing Research (SMASH)
<i>Neuroimaging</i>	electroencephalogram (EEG), Freesurfer, Functional Connectivity Toolbox (CONN), functional magnetic resonance imaging (fMRI), Statistical Parametric Mapping (SPM)
<i>Neurostimulation</i>	transcranial magnetic current stimulation (tDCS), transcranial magnetic stimulation (TMS), Magstim and Brainsight electromyography (EMG)
<i>Phonetic Analysis</i>	Computerized Language Analysis (CLAN) Program, Programs to Examine Phonetic and Phonologic Evaluation Records (PEPPER), Phon
<i>Signal Processing and Statistical Analysis</i>	Matlab, Python, R

## CLINICAL SKILLS

Area	Skills
<i>Augmentative and Alternative Communication</i>	Boardmaker, The Picture Exchange Communication System (PECS), Tobii Dynavox
<i>Dysphagia</i>	Fiberoptic Endoscopic Evaluation of Swallowing (FEES), Modified Barium Swallow Study (MBSS)
<i>Speech Motor Disorders</i>	modified Prompts for Restructuring Oral Muscular Phonetic Targets (PROMPT), modified Dynamic Temporal and Tactile Cueing (DTTC)
<i>Voice Disorders</i>	Kay Voice Analysis System (KayPENTAX), stroboscopy, modified Lee Silverman Voice Treatment (LSVT)