Christina M. Hagedorn, Ph.D., CCC-SLP, TSSLD

CONTACT

At the College of Staten Island:
Linguistics Program
College of Staten Island, City University of New York
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At The Graduate Center, CUNY:
Doctoral Program in Linguistics
The Graduate Center, City University of New York
365 5th Avenue
New York, NY 10016

Doctoral Program in Speech-Language-Hearing Sciences
The Graduate Center, City University of New York
365 5th Avenue
New York, NY 10016

ACADEMIC APPOINTMENTS

(2022–present)
Family/Parental Leave: Spring 2025–Fall 2025

City University of New York
- Associate Professor of Linguistics, Department of English, College of Staten Island
- Director of CSI Motor Speech Laboratory
- Associate Professor of Linguistics, The Graduate Center, CUNY (Secondary Appointment)
- Associate Professor of Speech-Language-Hearing Sciences, The Graduate Center, CUNY (Tertiary Appointment)

(2016–2022)

City University of New York
- Assistant Professor of Linguistics, Department of English, College of Staten Island
- Director of CSI Motor Speech Laboratory
- Assistant Professor of Linguistics, The Graduate Center, CUNY (Secondary Appointment)

EDUCATION

(May 2017) **New York University**
M.S., Communicative Sciences and Disorders (CSD)

(May 2015) **University of Southern California**
Ph.D., Linguistics

(May 2011) **University of Southern California**
M.A., Linguistics

(May 2009) **Stony Brook University**
B.A. with Honors in Linguistics Concentrations: Linguistics | Italian Studies | Spanish Language & Literature

AWARDS & HONORS

(2026) **40 Under Forty Alumni Award** — Stony Brook University

(2022) **Henry Wasser Award for Outstanding Research for Assistant Professors** — CUNY Academy for the Humanities and Sciences

(2019) **Provost's Faculty Recognition Ceremony** — College of Staten Island. Honored for having published multiple journal articles in a single academic year.

(2019) **NSF CAREER Bootcamp**, Competitively Selected Participant — Advanced Science Research Center, CUNY.

(2018–2019) **Faculty Fellowship Publication Program (FFPP)**, Competitively Selected Participant — City University of New York.

(2018) **Stewart Travel Award** — College of Staten Island ($500)

(2017) **Triple Threat Award of Excellence in Academics, Research and Clinical Performance in CSD** — New York University

(2015–2017) **21st Century Scholarship** — Steinhardt School of Culture, Education, and Human Development, New York University ($25,000)

(2011–2013) **NIH NRSA Pre-Doctoral Fellowship: Hearing and Communication Neuroscience** — House Research Institute & University of Southern California ($56,834)

(2015) **Dissertation Year Fellowship** — Dornsife College of Letters, Arts and Sciences, University of Southern California ($29,000)

(2009) **Phi Beta Kappa Society** — Stony Brook University Chapter

(2009) **Golden Key Honor Society** — Stony Brook University Chapter

RESEARCH FUNDING & SUPPORT

UNDER REVIEW

(Under review) **Google TPU Research and Education Award**. Role: Co-Investigator (with Sean Foley, Xuan Shi, and Shrikanth Narayanan). $75,000. Multimodal Foundation Models for Forward and Inverse Mapping of Speech Articulation in Health and Breakdown

AWARDED RESEARCH FUNDING

(2026–present) **PSC-CUNY Post-tenure Reassigned Time Award**. Role: PI. $6,025. Advancing Speech Imaging at the College of Staten Island: Building VISTA for Clinical Biofeedback and Undergraduate Training

(2025–present) **PSC-CUNY Grant TRADB-56-344**. Role: PI. $5,998. Bridging Gaps in Speech Intervention: The First-Ever Visually Integrated Biofeedback Experience (VIBE).

(2024–present) **The PROMPT Institute, Motor Speech Research Grant**. Role: Primary Author, Co-PI, with Shrikanth Narayanan (USC), Krishna Nayak (USC), and Aravind Namasivayam (University of Toronto; Speech Research Centre Inc.). $104,148. Investigating "Phonological" Developmental Speech Errors Using Real-Time Magnetic Resonance Imaging.

(2019–2021) **Government of India, Scheme for Promotion of Academic and Research Collaboration**. Role: Co-PI, with Prasanta Ghosh (Indian Institute of Science), Shrikanth Narayanan (USC). $69,062. Machine Intelligence for Cognitive and Communication Disorders.

(2019–2022) **PSC-CUNY Grant TRADB-50-539**. Role: PI. $5,524. Investigating Articulatory Coordination in Childhood Apraxia of Speech.

(2017–2018) **PSC-CUNY Enhanced Grant ENHC-48-57**. Role: PI. $11,055. Investigating Supralaryngeal Coordination in Parkinsonian Dysarthria.

RESEARCH INFRASTRUCTURE & EQUIPMENT SUPPORT

(2026) **College of Staten Island Student Technology Fee Award**. Role: Recipient. $3,500. Technology support for clinical training and instruction in the CSI Motor Speech Laboratory; funded replacement of a high-performance workstation supporting student use of acoustic, ultrasound imaging, and kinematic analysis tools.

(2021) **CUNY GRTI Award**. Role: Recipient. $1,679. Equipment award for a Welch Allyn 28200 AM 282 Manual Audiometer.

(2020) **CUNY GRTI Award**. Role: Co-recipient with Jason Bishop. $2,807. Competitive equipment award for an audiometer and desktop computer.

(2016) **CUNY GRTI Award**. Role: Co-recipient with Jason Bishop. $4,400. Competitive equipment award for an electroglottograph.

(2016) **College of Staten Island Research Start-up Package**. Role: PI. $87,800. Research infrastructure and support for establishing the College of Staten Island Motor Speech Laboratory, including an NDI Wave System, research computing equipment, and clinical assessment materials.

PRIOR UNFUNDED PROPOSALS

(2022) **National Institutes of Health, R01**. Role: Primary Author; Co-Investigator, with Shrikanth Narayanan (USC), Krishna Nayak (USC), Uttam Sinha (USC). $3,256,479. Speech Assessment and Rehabilitation After Tongue Reconstruction Using Dynamic MRI.

(2020) **National Science Foundation**. Role: Co-PI, with Patricia Kahn (CUNY), Deborah Sturm (CUNY), Heidi Bertels (CUNY), Karen Arca Contreras (CUNY), Linda John (CUNY), Shuqun Zhang (CUNY), Thomas Tellefsen (CUNY), Zaghloul Ahmed (CUNY). $538,817. Using Virtual Reality to Improve Interpersonal Skills Among STEM College Students in Preparation for Entering the Workforce.

SCHOLARSHIP

MANUSCRIPTS IN PREPARATION

(In preparation) **Hagedorn, C.**, Kumar, P., Shi, X., Huang, K., Reddi Kadiri, S., Ahn, C., Nayak, K., Sinha, U. & Narayanan, S.S. Real-Time MRI Speech Biofeedback Following Partial Glossectomy: A Proof-of-Concept Single Case Study. In preparation for submission to the *Journal of Speech, Language, and Hearing Research*

(In preparation) Foley, S., **Hagedorn, C.**, & Narayanan, S. Wav2VT: Towards Interpretable and Low-Dimensional Acoustic-to-Articulatory Speech Inversion for Visual Biofeedback Applications.

MANUSCRIPTS UNDER REVIEW

(Under review) Nguyen, H., Foley, S., **Hagedorn, C.**, Lu, Y., Kadiri, S., Byrd, D., & Narayanan, S. Arti-JEPA: Adapting a Video World Model to Real-Time MRI of the Vocal Tract for Speech-Production Analysis. *Computer Speech & Language.*

(Under review) Ravendran, J., Namasivayam, A., Bahar, N., Chochinov, A., Arshad, M., Choy, J., Moore, J., **Hagedorn, C.**, & van Lieshout, P. Defining Pediatric Phonological Speech Sound Disorders in Intervention Research: A Scoping Review Protocol of Participant Characterization, Eligibility Criteria, and Motor Speech Assessment. *British Medical Journal Open.*

PEER-REVIEWED JOURNAL ARTICLES

(2026) Lu, Y., Goldstein, L., **Hagedorn, C.**, & Narayanan, S. Temporal Patterns in Articulation Underlying Repetitions, Prolongations, and Blocks. *Journal of Fluency Disorders*, 106224.

(2025) Shi, X., Feng, T., Park, J., **Hagedorn, C.**, Goldstein, L., & Narayanan, S. Speech Acoustics to rt-MRI Articulatory Dynamics Inversion with Video Diffusion Model. *Computer Speech & Language*, 101928.

(2025) Namasivayam, A., Kent, R., Preston, J., Maassen, B., **Hagedorn, C.**, Nip, I., McAllister, A., Wang, J., Hustad, K., Ménard, L., Bahar, N., Moore, J., Petrosov, J., & van Lieshout, P. Reevaluating the Classification of Pediatric Speech Sound Disorders: A Ground Truthing Perspective. *Frontiers in Human Neuroscience*, 19, 1700505.

(2025) Reddy Kadiri, S., Huang, K., **Hagedorn, C.**, Byrd, D., Alku, P., & Narayanan, S. Formant Tracking by Combining Deep Neural Network and Linear Prediction. *IEEE Open Journal of Signal Processing.*

(2024) Cheng, H., Masapollo, M., **Hagedorn, C.**, & Buchwald, A. Articulatory Coordination for Non-native Onset Clusters: An Electromagnetic Articulography Study. *Journal of Speech, Language, and Hearing Research*, 67(10), 3549–3565.

(2022) **Hagedorn, C.**, Lu, Y., Toutios, A., Sinha, U., Goldstein, L., & Narayanan, S. Variation in Consonant Compensation as a Function of Target Constriction Degree in Post-Glossectomy Speech. *Journal of the Acoustical Society of America Express Letters*, 2(4), 045205.

(2021) **Hagedorn, C.**, Kim, J., Sinha, U., Goldstein, L., & Narayanan, S. Complexity of Vocal Tract Shaping in Glossectomy Patients and Typical Speakers: A Principal Component Analysis. *Journal of the Acoustical Society of America*, 149(6), 4437–4449.

(2021) Kim, C., Ouyang, L., Capobres-Villegas, B., Ipek, C., **Hagedorn, C.**, & Sinha, U. Analyzing Speech Outcomes in Hemiglossectomy Patients Using Telecare Platform. *Clinics of Oncology*, 4(3), 1–9.

(2019) **Hagedorn, C.**, Sorenson, T., Lammert, A., Toutios, A., Goldstein, L., Byrd, D., & Narayanan, S. Engineering Innovation in Speech Science: Data and Technologies. *Perspectives of the American Speech Language Hearing Association*, 4(2), 411–420.

(2019) Grigos, M., LeBlanc, E., **Hagedorn, C.**, Diaz-Siso, J., Plana, N., & Rodriguez, E. Changes in Articulatory Control Pre- and Post-Facial Transplant: A Case Report. *Journal of Speech, Language, and Hearing Research*, 62, 297–306.

(2017) **Hagedorn, C.**, Proctor, M., Goldstein, L., Wilson, S., Miller, B., Gorno-Tempini, M., & Narayanan, S. Characterizing Articulation in Apraxic Speech Using Real-Time Magnetic Resonance Imaging. *Journal of Speech, Language, and Hearing Research*, 60(4), 877–891.

BOOK CHAPTERS

(2024) **Hagedorn, C.** & Namasivayam, A. Articulatory Phonology and Speech Impairment. In N. Müller, M. Ball and L. Spencer (eds.), *Manual of Clinical Linguistics*, 333–349, London: Routledge.

(2021) Ramanarayanan, V. & **Hagedorn, C.** [co-authors; equal contribution] Magnetic Resonance Imaging. In J. Damico and M. Ball (eds.), *Handbook of Clinical Phonetics*, 375–386. London: Routledge.

PEER-REVIEWED CONFERENCE PROCEEDINGS

(2024) Kumar, P., Tian, Y., Lim, Y., Cui, S., **Hagedorn, C.**, Byrd, D., Sinha, U., Narayanan, S.S., & Nayak, K. State-of-the-art speech production MRI protocol for new 0.55 Tesla scanners. *Proceedings of Interspeech, 25th Annual Conference of the International Speech Communication Association*, Kos, Greece.

(2013) **Hagedorn, C.**, Lammert, A., Bassily, M., Zu, Y., Sinha, U., Goldstein, L., & Narayanan, S.S. Characterizing Post-Glossectomy Speech Using Real-Time MRI. *Journal of the Acoustical Society of America*, 134(5), 4205.

(2013) Lammert, A., **Hagedorn, C.**, Proctor, M., Goldstein, L., & Narayanan, S.S. Interspeaker Variability in Relative Tongue Size and Vowel Production. *Journal of the Acoustical Society of America*, 134(5), 4205.

(2012) **Hagedorn, C.**, Proctor, M., Goldstein, L., Gorno-Tempini, M.L., & Narayanan, S.S. Characterizing Covert Articulation in Apraxic Speech Using Real-Time MRI. *Proceedings of Interspeech - Spoken Language Processing and Biomedicine*, *13th Annual Conference of the International Speech Communication Association*, Portland, Oregon.

(2011) **Hagedorn, C.**, Proctor, M., & Goldstein, L. Automatic Analysis of Singleton and Geminate Consonant Articulation Using Real-Time MRI. *Proceedings of Interspeech, 12th Annual Conference of the International Speech Communication Association*, Florence, Italy.

(2011) Proctor, M., Lammert, A., Katsamanis, A., Goldstein, L., **Hagedorn, C.**, & Narayanan, S.S. Direct Estimation of Articulatory Kinematics from Real-Time Magnetic Resonance Image Sequences. *Proceedings of Interspeech, 12th Annual Conference of the International Speech Communication Association*, Florence, Italy.

(2011) Gao, M., Moosehammer, C., **Hagedorn, C.**, Nam, H., Tiede, M., Chang, Y., Hsieh, F., & Goldstein, L. Intra- and Inter-syllabic Coordination: An Articulatory Study of Taiwanese and English. *Proceedings of the 17th International Conference of Phonetic Sciences (ICPhS XVII)* 723–726, Hong Kong.

CONFERENCE PRESENTATIONS

(2026) **Hagedorn, C.**, Kumar, P., Shi, X., Huang, K., Reddi Kadiri, S., Ahn, C., Nayak, K., Sinha, U., & Narayanan, S.S. "Novel Real-Time MRI Biofeedback for Post-Glossectomy Speech Rehabilitation" Technical Research Presentation at the American Speech-Language-Hearing Association Convention, Indianapolis, Indiana, November 19–21.

(2024) **Hagedorn, C.**, Lu, Y., Goldstein, L., Sinha, U., Nayak, K., & Narayanan, S.S. "Assessing Compensatory Behavior in Vowel Production following Glossectomy Using Real-Time Magnetic Resonance Imaging". Technical Research Presentation at the American Speech-Language-Hearing Association Convention, Seattle, Washington, December 5–7.
Designated as an ASHA Convention Visionary Session for exemplifying forward thinking and having the potential to significantly impact the field (awarded to 5% of submissions).

(2023) **Hagedorn, C.**, Kumar, P., Villegas, B., Ouyang, M., Cui, S., Sheth, M., Narayanan, S., Nayak, K., & Sinha, U. L., "Role of High-Performance Low Field Magnetic Resonance Imaging in Management of Tongue Cancer". Talk presented at the American Head and Neck Society's 11th International Conference on Head and Neck Surgery, Montreal, Canada, July 8–12.

(2022) Masapollo, M., Cheng, H., **Hagedorn, C.**, & Buchwald, A. "Native and Non-native Onset-Vowel Organization: An Electromagnetic Articulography Study". Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, Louisiana, November 17–19.

(2022) **Hagedorn, C.**, & Kahn, P. "A Mixed-Reality Pilot for Developing Clinical Communication Skills in Speech and Language Pathology." World Future Forum Conference, Chicago, Illinois, April 22.

(2021) **Hagedorn, C.**, & Kahn, P. "A Mixed-Reality Pilot for Developing Clinical Communication Skills in Speech and Language Pathology." Poster presented at The 20th Annual CUNY Information Technology Conference, New York, New York, December 2–3.

(2021) Cheng, H., Masapollo, M., **Hagedorn, C.**, & Buchwald, A. "Effects of Phonotactic Legality on Gestural Coordination in Consonant Clusters: An Electromagnetic Articulography Study". Poster presented at the 181st Meeting of the Acoustical Society of America, Seattle, Washington, November 29–December 3.

(2021) **Hagedorn, C.**, Lu, Y., Kim, J., Zu, Y., Sinha, U., Goldstein, L., & Narayanan, S.S. "Variation in Compensatory Strategies as a Function of Target Constriction Degree in Post-Glossectomy Speech". Poster presented at the American Speech-Language-Hearing Association Convention, Washington, District of Columbia, November 17–19.

(2021) **Hagedorn, C.**, & Kahn, P. "A Mixed-Reality Pilot for Developing Clinical Communication Skills in Speech and Language Pathology". Poster presented at EDUCAUSE, Philadelphia, Pennsylvania, October 26–29.

(2020) Cheng, H., Masapollo, M., **Hagedorn, C.**, & Buchwald, A. "Gestural Coordination in Non-native Onset Clusters: An Electromagnetic Articulography Study". Poster presented at International Seminar on Speech Production, Providence, Rhode Island, June 1–4.

(2018) Grigos, M. I., LeBlanc, E., **Hagedorn, C.**, & Rodriguez, E. "Changes in Speech Production and Facial Movement Pre- and Post-Facial Transplant". Talk presented at the Conference on Motor Speech, Savannah, Georgia, February 21–25.

(2017) **Hagedorn, C.**, Kim, J., Zu, Y., Goldstein, L., Sinha, U., & Narayanan, S.S. "Quantifying Lingual Flexibility in Post-Glossectomy Speech". Poster presented at American Speech-Language-Hearing Association Convention, Los Angeles, California, November 9–11.

(2016) **Hagedorn, C.**, Sinha, U., Goldstein, L., & Narayanan, S.S. "Characterizing Vowel Articulation in Post-Glossectomy Speech". Talk presented at the American Speech-Language-Hearing Association Convention, Philadelphia, Pennsylvania, November 17–19.

(2014) **Hagedorn, C.**, Toutios, A., Goldstein, L., & Narayanan, S.S. "USC-TIMIT: A Multimodal Speech Production Database". Talk presented at Workshop on Databases and Corpora in Linguistics, Stony Brook, New York, October 17.

(2014) **Hagedorn, C.**, Lammert, A., Bassily, M., Sinha, U., Goldstein, L., & Narayanan, S.S. "Characterizing Post-Glossectomy Speech Using Real-Time MRI". Talk presented at The International Seminar on Speech Production, Cologne, Germany, May 5–8.

(2012) **Hagedorn, C.**, Proctor, M., Goldstein, L., Gorno-Tempini, M.L., & Narayanan, S.S. "Characterizing Covert Articulation in Apraxic Speech Using Real-Time MRI". Talk presented at The International Workshop on Language Production, New York, New York, July 18–20.

(2011) **Hagedorn, C.**, Proctor, M., Goldstein, L., & Narayanan, S.S. "Automatic Analysis of Constriction Location in Singleton and Geminate Consonant Articulation Using Real-time Magnetic Resonance Imaging". Talk presented at the 162nd Meeting of the Acoustical Society of America, San Diego, California, October 31–November 4.

(2011) **Hagedorn, C.**, Proctor, M., & Goldstein, L. "Automatic Analysis of Geminate Consonant Articulation Using Real-time Magnetic Resonance Imaging". Talk presented at the 9th International Seminar on Speech Production, Montreal, Canada, June 20–23.

(2011) Gao, M., Moosehammer, C., **Hagedorn, C.**, Nam, H., Tiede, M., & Goldstein, L., "Comparison of Inter- and Intra-syllabic Coordination in Repetitive Speech of Taiwanese and English". Talk presented at the 9th International Seminar on Speech Production, Montreal, Canada, June 20–23.

INVITED RESEARCH TALKS

(2026) "Real-Time MRI-Based Speech Disorder Characterization and Clinical Biofeedback: The Case of Lingual Cancer", Keynote, Speech-Language-Hearing Sciences Student Poster Day, The Graduate Center, CUNY, New York, New York, April 17.

(2024) "MRI-Driven Speech Disorder Characterization, Theoretical Refinement, and Clinical Innovation: The Case of Lingual Cancer", Stony Brook University, Department of Linguistics, Stony Brook, New York, February 9.

(2022) "Applying Novel Developments in Magnetic Resonance Imaging to Disorder Characterization, Theoretical Refinement, and Clinical Innovation", University of Southern California, Otolaryngology and Hearing and Communication Neuroscience Seminar Series, Los Angeles, California, October 6.

(2022) "Reconciling Asymmetries in Compensatory Strategies for Vowel and Consonant Production in Post-Glossectomy Speech", The Graduate Center, CUNY, Speech-Language-Hearing Sciences Colloquium Series, New York, New York, April 6.

(2021) "Variation in Compensatory Strategies as a Function of Target Constriction Degree in Post-Glossectomy Speech", University of Southern California, Speech Production and Articulation kNowledge (SPAN) Group, Los Angeles, California, October 25.

(2021) "Applying Engineering Innovation to the Investigation of Speech Disorders: Utilizing rtMRI to Unveil Aspects of Disordered Speech", The Indian Institute of Science (IISc), Bangalore, India, January 10.

(2020) "Retain or Revise? Investigating the Effects of Lingual Resection on Speech Production", New York University, Phonetics and Experimental Phonology Laboratory, New York, New York, February 28.

(2020) "Autism: A Clinical Perspective" [6-day intensive course on evidence-based practice for Autism], National Institute of Mental Health and Neurosciences, Bangalore, India, January 6–11.

(2020) "Utilizing Real-time Magnetic Resonance Imaging to Investigate Speech Articulation Disorders", Indian Institute of Science, Bangalore, India, January 10.

(2019) "Investigating Speech Production Following Lingual Resection Using rtMRI", Adelphi University, Communication Sciences and Disorders, Garden City, New York, November 25.

(2019) "Retain or Revise? The Effects of Lingual Resection on Speech Production", The Graduate Center, CUNY, Linguistics Colloquium Series, New York, New York, November 7.

(2019) "Retain or Revise? Investigating Speech Production Following Lingual Resection Using rtMRI", The Graduate Center, CUNY, Speech Production, Acoustics and Perception Laboratory Meeting, New York, New York, November 5.

(2018) "Retain or Revise? The Effects of Lingual Resection on Speech Production", Stony Brook University, Linguistics Colloquium Series, Stony Brook, New York, November 9.

(2018) "Investigating Post-Glossectomy Speech Using rtMRI", The Graduate Center, CUNY, Linguistics Special Seminar Series, New York, New York, March 2.

(2017) "Characterizing Covert Articulation in Apraxic Speech Using rtMRI", New York University, Communicative Sciences and Disorders Colloquium Series, New York, New York, December 2.

OTHER INVITED TALKS

(2023) "Investigating Post-Glossectomy Speech Using Real-time MRI", Henry Wasser Award Ceremony, The Graduate Center, CUNY, New York, New York, April 26.

(2019) "The Dance of the Vocal Tract", Introductory Address, North American Computational Linguistics Open Practice Session (students grades 6-12), Stony Brook University, Stony Brook, New York, December 14.

(2019) "Introduction to Phonetics: Consonantal Articulations and Airstream Mechanisms", Guest lecture, Stuyvesant High School, New York, New York, October 17.

(2019) "Utilizing Speech Science Technology in the Classroom", College of Staten Island, Faculty Technology Day, Staten Island, New York, May 7.

(2018) "Blurring the Lines: A Journey Through the Arts and Sciences", College of Staten Island, Phi Beta Kappa Affiliates Keynote Address, Staten Island, New York, May 22.

(2017) "Clinical Takeaways of Apraxia of Speech Research Using rtMRI", NYC Department of Education Speech Language Pathology Professional Development Seminar, Staten Island, New York, December 22.

(2017) Linguistics Department Commencement Speaker, Stony Brook University, Stony Brook, New York, May 19.

WORKSHOP PRESENTATIONS

(2026) "Seeing Speech Differently: What New Technology Can Tell Us About Speech Disorders", Beyond the Speech Error: Insights into Childhood Speech Sound Disorders – Assessment, Intervention, Speech Motor Control & Emerging Technologies in School-Age Children, University of Southern California, Los Angeles, November 7.

(2020) "Introducing the Topic of Linguistic Discrimination in the Classroom" [presented together with Rosanne Carlo], Decolonizing Your Syllabus Workshop, Department of English, College of Staten Island, Staten Island, New York, August 17.

TEACHING

COURSES TAUGHT AT THE COLLEGE OF STATEN ISLAND

Introduction to Language (LING 201)
Introduction to Speech and Language Pathology (LING 204)
Introduction to Linguistics (LING 301)
Phonetics (LING 302)
Speech Science (LING 402)
Anatomy & Physiology for Speech Science (LING 420)
Phonetic & Phonological Disorders (LING 430)

SELECTED INDEPENDENT STUDIES DIRECTED

Quantifying the Effects of RT-MRI Speech Biofeedback
A Longitudinal Articulatory Investigation of Post-Glossectomy Speech Using RT-MRI
Investigating the Acquisition of English /l/ Using RT-MRI
Mixed-reality Pilot for Developing Clinical Empathy and Communication Skills in Speech and Language Pathology
Clinical Supervision: Simucase Observation
Audiology (prior to being catalogued as LING 450)
Articulatory Correlates of Non-Native Consonant Clusters
Articulatory Correlates of Consonant Clusters of English
Methods in Speech Articulometry
Compensation of Stop Production in Post-Glossectomy Speech
Compensation of Fricative Production in Post-Glossectomy Speech
Evidence-Based Practice for Speech Disorders

OTHER TEACHING EXPERIENCE

Motor Speech Disorders (Graduate level), Lehman College (CUNY), Instructor [Fall 2026]
The Science of Language, New York University, Recitation Instructor, Lecture Instructor: Marisa Nagano [Spring 2016 (3 sections)]
Hearing & Communication Neuroscience, University of Southern California, Teaching Assistant, Instructor of Record: Prof. Louis Goldstein [Spring 2014]
Phonetics, Stony Brook University, Teaching Assistant, Instructor of Record: Prof. Marie Huffman [Fall 2008]

GRADUATE SUPERVISION

GRADUATE SUPERVISION AT OTHER INSTITUTIONS

(2026) Thomas Tienkamp, "Speech Motor Control Following Surgical Treatment for Oral Cancer: Acoustic and Kinematic Insights". Dissertation, Defense Committee Member [with Martijn Wieling, Defne Abur, Max Witjes, Sebastiaan de Visscher, Roel Jonkers, Michiel van den Brekel, and Anne Hermes]. University of Groningen.

(2021–2024) Yijing Lu, "Characterizing Speech During Stuttering Using Real-Time Magnetic Resonance Imaging". Dissertation, Committee Member [with Louis Goldstein (chair), Dani Byrd, Shrikanth Narayanan, and Khalil Iskarous]. University of Southern California.

(2022–2023) Hung-Shao Cheng, "Production Learning of Novel Sound Sequences". Dissertation, External Reader [with Adam Buchwald (chair), Tara McAllister, and Lisa Davidson]. New York University.

GRADUATE SUPERVISION AT THE COLLEGE OF STATEN ISLAND

(2020) Saundra Scott, "Going Beyond the "Standard": Decentering Traditional Grammar in Writing Instruction and Raising Awareness of Linguistic Differences". M.A. Thesis, Faculty Reader. College of Staten Island.

GRADUATE SUPERVISION AT THE GRADUATE CENTER, CUNY

(2026–present) Zhilang Liu, "How Listener-Oriented Is Coarticulation? Evidence from Situational, Individual, and Prosodic Variation in English /s/-V Production". Second Exam, Committee Member [with Cecelia Cutler and Jason Bishop (chair)]

(2026–present) Wa Akila Ariyasena, "Parkinson's Disease and Deep Brain Stimulation". Second Exam, Committee Member [with Douglas Whalen (chair)]

(2025–present) Chen Zhou, "Individual Differences as a Method for Understanding Variation in Speech - the Case of Pitch Production and Prominence Perception". Dissertation, Committee Member [with Jason Bishop (chair) and Suzanne van der Feest]

(2022–2026) Rion Iwasaki, "Lingual Articulation of De-voiced Vowels in Tokyo Japanese". Dissertation, Committee Member [with Douglas Whalen (chair), Mark Tiede, and Jason Shaw]

(2025) Wa Akila Ariyasena, "Investigating Coarticulatory Patterns in Parkinson's Disease in Connected Speech Using Electromagnetic Articulography (EMA)". First Exam, Reader [with Douglas Whalen (chair)]

(2022–2024) Marcy Gordon, "Dyslexia and Speech Production Errors: A Sequencing Deficit? - Evidence from Ultrasound Imaging". Qualifying Paper II, Committee Member [with Douglas Whalen (chair)]

(2022) Chen Zhou, "Temporal dynamics of lateralization in Spanish /l/ production". Qualifying Paper II, Committee Member [with Jason Bishop (chair) and Cecelia Cutler]

(2021) Jaekoo Kang, "The Effect of Speaking Rate on Vowel Variability Based on the Uncontrolled Manifold Approach and Flow-Based Invertible Neural Network Modeling". Dissertation, Committee Member [with Douglas Whalen (chair), Hosung Nam, Mark Tiede, and Valerie Shafer]

(2020–2021) Chen Zhou, "The Phonetic Correlates of Sex Differences in American English Speech". Qualifying Paper I, Committee Co-Chair [with Jason Bishop]

(2020–2021) Sejin Oh, "Segmental Reduction and Articulatory Dynamics". Dissertation, Committee Member [with Jason Bishop (chair), Jason Shaw, and Douglas Whalen]

(2020–2021) Boram Kim, "Lexical Stress Realization in Mandarin Second Language Learners of English: Acoustic and Articulatory Study". Dissertation, Committee Member [with Douglas Whalen (chair) and Jason Bishop]

(2020) Boram Kim, "Lexical-stress Effect on Tense-Lax Contrasts in Mandarin Accented English". Qualifying Paper II, Committee Co-Chair [with Douglas Whalen]

(2019–2021) Darlene Intlekofer, "Prosody and Speech Production Planning". Dissertation, Committee Member [with Jason Bishop (chair) and Christina Tortora]

(2019) Sejin Oh, "Final Devoicing in Bulgarian: Incomplete Neutralization and L2 Experience". Qualifying Paper II, Committee Member [with Jason Bishop (chair) and Douglas Whalen]

(2018) Sejin Oh, "Phonetic and Phonological Vowel Reduction in Brazilian Portuguese". Qualifying Paper I, Faculty Reader.

UNDERGRADUATE RESEARCH MENTORING (HONORS THESES SUPERVISED)

(2026) Sofia Reparto, "TBA". College of Staten Island.

(2026) Isabella Capua, "TBA". College of Staten Island.

(2026) Yasmin Zayed, "Quantifying the Effects of RT-MRI Speech Biofeedback". College of Staten Island.

(2022) Jaclyn Kateridge, "Compensatory Behavior in Consonant Compensation following Oral Tongue Resection". College of Staten Island.
- Currently a Master's student in Speech and Language Pathology (Stony Brook University).

(2021) Ashley Roberts, "Compensatory Behavior in Consonant Compensation following Oral and Base of Tongue Resection". College of Staten Island.
- Currently a Master's student in Speech and Language Pathology (Brooklyn College).

(2019) Nicole Ianni, "A Longitudinal Study of Speech Motor Control Development". College of Staten Island.
- Currently a practicing speech and language pathologist (Brooklyn College, 2021).

(2019) Estie Szczupakiewicz, "Motor Learning of Non-Native Speech Sequences". College of Staten Island.
- Currently a practicing speech and language pathologist (Hofstra University, 2021).

(2019) Lorenza Colonna, "Articulatory Coordination in Complex Speech Sequences". College of Staten Island.
- Currently a practicing speech and language pathologist and lecturer (New York University, 2021).

(2018) Lorenza Colonna, "Investigating Articulatory Coordination in Consonant Clusters". College of Staten Island.
- Currently a practicing speech and language pathologist and lecturer (New York University, 2021).

(2017) Toniann Grossman, "Consonant and Vowel Production in Post-Glossectomy Speech". College of Staten Island.
- Currently a practicing speech and language pathologist (Southern Connecticut State University, 2021).

(2015) Mary Bassily, "Vowel Compensation in Post-Glossectomy Speech". University of Southern California.
- Awarded 1st place at USC Undergraduate Research Symposium.
- Currently a practicing speech and language pathologist (California State University Northridge, 2018).

RESEARCH MENTORING OF LOCAL HIGH SCHOOL STUDENTS

(2019–2020) Lauren Regan, "Investigating the Influence of Glossectomy on Speech Production"
- Staten Island Technical High School

(2019) Clea Loci, "Acoustic and Kinematic Correlates of Non-Native and Native Consonant Cluster Production"
- Staten Island Technical High School

(2019) Simone Livit, "Investigating the Influence of Glossectomy on Speech Production"
- Staten Island Technical High School

ACADEMIC LEADERSHIP & PROGRAM DEVELOPMENT

RESEARCH & CLINICAL PROGRAM DEVELOPMENT

(2016–present) **Founding Director, College of Staten Island Motor Speech Laboratory**.
- Established and continues to develop a laboratory supporting speech production research.
- Trains and mentors undergraduate students through laboratory research, honors theses, independent studies, and directed readings, with 81 students mentored to date.

(2021) **Founding Director and Clinical Supervisor, Mixed-reality Pilot for Developing Clinical Empathy and Communication Skills in Speech and Language Pathology**.
- Developed an immersive mixed-reality clinical communication training experience for undergraduate SLP students whose in-person clinical observation opportunities were disrupted by the COVID-19 pandemic. Students practiced caregiver-facing clinical conversations with a live actor operating a Mursion avatar and received quantitative and qualitative supervisory feedback across four training sessions.

(2018) **Founding Director and Clinical Supervisor, CSI Clinical Practicum and Research Program in Speech and Language Pathology**.
- Established and directed an undergraduate clinical and research training program providing off-campus clinical observation and treatment experience under the supervision of certified speech-language pathologists, while increasing student involvement in speech-disorders research. The program bridged theory and practice, supported students' career preparation, and developed cultural and linguistic competence for clinical practice in New York's diverse communities.

CURRICULAR & DEGREE PROGRAM DEVELOPMENT

(2016–present) **Co-Director, Linguistics Program**, College of Staten Island.
- Program enrollment grew from 65 students in 2016 (the year of appointment at CSI) to 123 students in 2025.
- Currently serves as a Linguistics concentration advisor, personally advising approximately 26 Linguistics concentrators multiple times each semester on course selection, graduate-program applications, and related academic planning.

(2017–present) **Founding Director** (with Prof. Jason Bishop), **Minor in Speech and Language Pathology**, College of Staten Island.
- Developed and launched the minor and have continued to co-direct the program since its inception.
- Enrollment grew from 0 at inception to 125 students as of Fall 2025.

(2017) **Co-Creator** (with Profs. Christina Tortora and Jason Bishop), **Major Concentration in Linguistics**, College of Staten Island.
- Developed a proposed major concentration in Linguistics; currently in revision.

UNDERGRADUATE COURSES CREATED

(2025) The Linguistic Landscape of the USA (LING 202)
(2025) Introduction to Speech and Language Pathology (LING 204)

(2017) Audiology (LING 450)

PROFESSIONAL & UNIVERSITY SERVICE

PROFESSIONAL SERVICE TO THE FIELD

(2023–present) **Editorial Board Member**, *Journal of Connected Speech* (Eds. Martin Ball and Joan Rahilly) Equinox Publishing

(2018–present) **Ad hoc Reviewer** for:
American Journal of Speech and Language Pathology (2024 (1))
Journal of Connected Speech (2024 (1))
Journal of Speech, Language, and Hearing Research (2023 (1); 2022 (2))
Journal of Communication Disorders (2022)
Language Resources and Evaluation (2022)
Journal of the Acoustical Society of America (2020, 2026 (2))
International Journal of Speech-Language Pathology (2019)
Speech Communication (2020)
Clinical Linguistics and Phonetics (2019)
Nature – Scientific Reports (2020)
Neuroimage Clinical (2018)

(2017–present) **Member of Scientific/Technical Review Committees** for:
The International Seminar on Speech Production (2020, 2021, 2022, 2024)
The International Conference on Acoustics, Speech, and Signal Processing (2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024)
Interspeech (2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2026)
The International Conference on Speech Prosody (2020, 2021, 2022)

(2021) **Reviewer** for Yule, G. (2021) *The Study of Language.* Cambridge University Press

(2019) **Reviewer** for Brosseau-Lapre, F. & Rvachew, S. (2018) *Introduction to Speech Sound Disorders* Plural Publishing.

(2019) **Invited Panel Member** at the 2019 Annual Meeting of the Linguistic Society of America, "Speech and Language Pathology as a Career for Linguists" (Co-panelists: Tara McAllister, Susannah Levi, Adam Buchwald, and Sudha Arunachalam). New York, New York.

(2019) **Co-organizer** of *Quantitative Approaches to Characterizing the Acoustic and Articulatory Properties of Atypical and Disordered Speech*, a special session of the *International Congress of Phonetic Sciences 2019* (Co-organizers: Michael Proctor, Mark Tiede, Lucie Menard, Eric Jackson, Martijn Wieling). Melbourne, Australia.

(2018) **Principal Organizer** of *Integrating Speech Science and Technology for Clinical Applications*, a special session of *InterSpeech 2018* (Co-organizers: Shrikanth S. Narayanan, Uttam Sinha). Hyderabad, India.

(2017) **Invited Panel Member** at the Annual Meeting on Phonology 2017, "Bridging the Gap Between Phonological Theory and Speech Disorders" *Career Opportunities for Students of Linguistics* (Co-panelists: Tara McAllister-Byun, Susannah Levi, Adam Buchwald) – New York University. New York, New York.

ELECTED & INSTITUTIONAL LEADERSHIP

(2026–present) **Committee Co-Chair, Research Committee of the Faculty Senate**, College of Staten Island (nominated and unanimously elected).

(2019–present) **President, College of Staten Island Phi Beta Kappa Associates**.

(2022–2024) **Elected Vice-Chair, Professional Staff Congress (PSC) CUNY, College of Staten Island Chapter**.

(2018–2021) **Committee Chair, Technology Committee of the Faculty Senate**, College of Staten Island (nominated and unanimously elected).

(2018) **Vice-President, College of Staten Island Phi Beta Kappa Associates**.

SERVICE TO THE GRADUATE CENTER, CUNY

(2026–2027) **Curriculum and Exams Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2026–2027) **Faculty Membership Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2026–2027) **Executive Committee (Alternate)**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2026) **Admissions and Awards Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2025–2026) **Elections Committee**, Doctoral Program in Speech-Language-Hearing Sciences, The Graduate Center, CUNY.

(2025–2026) **Elections Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2024–2025) **Curriculum and Exams Committee**, Doctoral Program in Speech-Language-Hearing Sciences, The Graduate Center, CUNY.

(2023) **Admissions and Awards Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2022–2023) **Curriculum and Exams Committee (Alternate)**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2022–2023) **Faculty Membership Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

(2021) **Admissions and Awards Committee**, Doctoral Program in Linguistics, The Graduate Center, CUNY.

OTHER SERVICE TO THE COLLEGE OF STATEN ISLAND

(2021–2026) **Member, Research Committee of the Faculty Senate**, College of Staten Island.

(2017–2026) **Alternate Delegate Assembly Member, CUNY Professional Staff Congress (PSC)**.

(2021) **Host and Organizer** (with Patricia Kahn), *Going Remote - The Student Experience.*

(2020–2021) **Member, Online and Hybrid Faculty Mentor Group**, College of Staten Island.

(2020–2021) **Member, Online and Hybrid Faculty Advisory Group**, College of Staten Island.

(2021) **Principal Organizer, The Second Annual CSI Faculty Technology Day** (with Patricia Kahn).

(2019) **Principal Organizer, CSI Faculty Technology Day** (with Patricia Kahn).

(2019–2021) **College Representative, CUNY Committee on Academic Technology (CAT)**.

SERVICE TO THE DEPARTMENT OF ENGLISH

(2026–present) **Member, Departmental Honors Committee**, College of Staten Island.

(2026–present)
(2022–2024) **Member, Departmental Linguistics Committee**, College of Staten Island.

(2025) **Member, Search Committee - Linguistics Assistant Professor**, College of Staten Island. Resulted in the hiring of Lei Liu, PhD.

(2024–2025) **Department Representative (Alternate)**, CSI Chapter of the Professional Staff Congress (PSC).

(2022–2023) **Member, Departmental Undergraduate Studies Committee**, College of Staten Island.

(2022–2023) **Chair, Departmental Online Committee**, College of Staten Island.

(2022) **Chair, Search Committee - Linguistics and Speech and Language Pathology Lecturer**, College of Staten Island. Resulted in the hiring of Lorenza Colonna, M.S., CCC-SLP, TSSLD.

(2021–2023) **Member, Departmental Majors Committee**, College of Staten Island.

(2020–2022) **Member, Departmental Racial Equity Committee**, College of Staten Island.

(2017–2023) **Department Representative**, CSI Chapter of the Professional Staff Congress (PSC).

CLINICAL EXPERIENCE

(September 2017–June 2018) **Speech-Language Pathologist**, P.S. 57 - Hubert Humphrey, Staten Island, NY.

• Evaluated, assessed, and treated students (grades K-5) with speech delay, language delay, childhood apraxia of speech, pragmatic language impairment, and hearing loss.

(January 2017–June 2017) **Graduate Student Clinician**, Seaview Hospital and Rehabilitation Center, Staten Island, NY.

• Evaluated, assessed, and treated speech and language disorders in adult patients with traumatic brain injury, dementia, and cerebrovascular accident-related communication difficulties.
• Implemented one-on-one bilingual speech-language therapy to improve functional communication.
• Collaborated with occupational therapists, physical therapists, neuropsychologists, dietitians, physicians, and family members to create comprehensive and functional speech and language therapy plans for patients.
• Presented patients' case histories and progress reports during weekly case rounds.

(September 2016–January 2017) **Graduate Student Clinician**, P.S. 5 - The Huguenot School, Staten Island, NY.

- Evaluated, assessed, and treated speech and language disorders in students (grades K-5) with speech and language delay, Autism Spectrum Disorder, cleft lip and palate, hearing loss (with hearing aids and frequency modulation (FM) unit).
- Created and implemented Namaste Focused, a therapeutic approach designed to integrate speech and language therapy with basic mindfulness training to improve sustained attention and reduce hyperactivity while targeting speech and language goals.
- Implemented individual and group speech-language therapy to improve functional communication and maximize academic performance.
- Collaborated with occupational therapists, physical therapists, neuropsychologists, classroom teachers, and parents to create comprehensive and functional speech and language therapy plans.
- Attended bi-weekly Individualized Education Program (IEP) meetings.

(Summer 2016) **Graduate Student Clinician**, Terence Cardinal Cooke Health Care Center, New York, NY.

- Evaluated, assessed, and treated communication and swallowing disorders in individuals with Huntington's disease.
- Implemented individual and group speech-language therapy to improve functional communication.
- Collaborated with residents, nurses, and therapists to create comprehensive and functional plans of care for patients.
- Informally evaluated swallow function and provided therapeutic feedings for patients with oral and pharyngeal dysphagia.

(Summer 2016) **Graduate Student Clinician**, New York University Speech-Language and Hearing Clinic, New York, NY.

- Evaluated, assessed, and treated pediatric and adult clients with speech and language delay, developmental and cognitive delay, conduction aphasia, and expressive aphasia.
- Led weekly aphasia group.
- Collaborated with clients, family members, and caregivers to create individualized educational and therapy programs.
- Served as clinical mentor to developing graduate clinicians in pre-clinical rotations.

CONTINUING EDUCATION

(December 2019) Assessment and Management of CAS in Children with Complex Communication Needs: Case-based Learning. Drs. Maria Grigos and Edythe Strand, New York University. New York, NY.

(November 2018) Clinical Thinking in the Management of Childhood Apraxia of Speech. Dr. Edythe Strand, New York University. New York, NY.

(October 2017) Prompts for Restructuring Oral Muscular Phonetic Targets (PROMPT) Training Level I.

PROFESSIONAL MEMBERSHIPS

(2018–present) Linguistic Society of America
(2016–present) New York State Speech-Language-Hearing Association
(2014–present) American Speech-Language-Hearing Association
(2012–present) Association for Laboratory Phonology
(2010–present) International Speech Communication Association
(2009–present) Acoustical Society of America

LANGUAGES	Programming	Communicative
	R	English (native)
	LaTeX	Italian (intermediate spoken, advanced read and written)
	MATLAB	Spanish (intermediate spoken, advanced read and written)

CURRENT CERTIFICATIONS	Certificate of Clinical Competence in Speech and Language Pathology (CCC-SLP)
	New York State Licensure in Speech and Language Pathology
	New York State Teacher of Students with Speech and Language Disabilities (TSSLD)
	Dignity for All Students Act (DASA)
	Collaborative Institutional Training Initiative (CITI)
	Health Insurance Portability and Accountability Act (HIPAA)
	Occupational Safety & Health Administration (OSHA)
	Prompts for Restructuring Oral Muscular Phonetic Targets (PROMPT) Level I