

Matthew Masapollo, Ph.D.

Assistant Professor, Department of Communication Sciences and Disorders







Principal Investigator, Speech Motor Control Laboratory

Associate Member, Stephenson Cancer Center

University of Oklahoma (OU) Health Sciences

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LINKS:

 [OU Health Sciences Speech Motor Control Lab](#)
 [PubMed](#)
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 [ScieENcv](#)
 [Google Scholar](#)
 [GitHub Repo](#)

EDUCATION:

Postdoctoral Fellowship

Department of Speech, Language, and Hearing Sciences, Boston University

Sponsor: Dr. Frank H. Guenther

2017-2019

Postdoctoral Fellowship

Department of Cognitive, Linguistic, and Psychological Sciences, Brown University

Sponsor: Dr. James L. Morgan

2016-2017

Doctor of Philosophy in Communication Sciences and Disorders

School of Communication Sciences and Disorders, McGill University

Committee: Drs. Linda Polka (Advisor), Lucie Ménard, and Vincent Gracco

Degree conferred 2016

Bachelor of Arts (Cognitive and Linguistic Sciences)

College of Literature, Arts, and Sciences, University of Michigan, Ann Arbor

Advisors: Drs. Patrice S. Beddor and Andries Coetzee

Degree conferred 2010

ACADEMIC APPOINTMENTS:

2024-current Assistant Professor, Communication Sciences and Disorders, OU Health Sciences

2024-current Associate Member, OU Health Stephenson Cancer Center

2023-2024 Research Associate, Motor Neuroscience Lab, Psychology, McGill University

2020-2023 Assistant Professor, Speech, Language, and Hearing Sciences, University of Florida

PRINCIPAL RESEARCH INTERESTS:

Sensorimotor Neuroscience

Plasticity in Human Motor and Sensory Systems

CNS Networks for Speech Production

Speech Motor Coordination and Control

Articulatory Physiology

Auditory and Oral Somatosensory Inputs

RESEARCH SUPPORT – Past:

1. **Grant: Emerging Research Grant**
Funding Source: Hearing Health Foundation (HHF)
Project title: Contributions of auditory and somatosensory feedback to speech motor control in congenitally deaf 9-to-10-year-olds and adults
Role: PI
Amount: \$100,000 (\$90,000 direct + \$10,000 indirect)
9/1/2021-8/31/2023
2. **Grant: Research Opportunity Seed Fund**
Funding Source: UF Research
Project title: Exploring the scaffolding of speech motor control and phonological sensitivity in young children
Role: PI
Amount: \$85,000 (\$85,000 direct + \$0 indirect)
9/1/2021-8/31/2023
3. **Grant: New Investigators Research Grant**
Funding Source: American Speech-Language-Hearing Foundation (ASHF)
Project title: Mechanisms of speech motor sequence learning
Role: PI
Amount: \$10,000 (\$10,000 direct + \$0 indirect)
9/1/2021-8/31/2023
4. **Grant: Dudley A. Sargent Research Fund**
Funding Source: Boston University
Project title: Mechanisms of speech motor sequence learning
Role: PI
Amount: \$4,000 (\$4,000 direct + \$0 indirect)
3/1/2019-12/31/2020

RESEARCH PROPOSALS – Scored, but not funded:

1. **Grant: Exploratory R21 – National Institute on Deafness and Other Communication Disorders**
Project title: Initial exploration of speech motor control by deaf talkers with cochlear implants
Role: MPI (with S. Nitttrouer)
Impact Score: 30
Percentile: 19th

RESEARCH PROPOSALS – Under review:

1. **Grant: Cancer Therapeutics & Cancer Prevention and Control Seed Grant Program**
Funding Source: OU Health Stephenson Cancer Center
Project title: Sensorimotor control of speech movements by patients with oral cavity cancer
Role: MPI (with R. Patel and M. Mims)
2. **Grant: Research Project Grant (R01)**
Funding Source: National Institute on Deafness and Other Communication Disorders (NIDCD)
Project title: Interactions of executive control, lexical selection, and speech motor programming in adults who stutter
Role: Co-I (PI: N. Maxfield)

RESEARCH PROPOSALS – In preparation:

1. **Grant: Seed Grant Program**
Funding Source: **OU Presbyterian Health Foundation Research Grants Program**
Project title: Sensorimotor control of speech movements by cochlear implant recipients
Role: PI
Planned Submission: March 2025
2. **Grant: Research Project Grant (R01)**
Funding Source: **National Cancer Institute (NCI)**
Project title: Sensorimotor control of speech movements by patients with oral cavity cancer
Role: PI
Planned Submission: October 2025
3. **Grant: Research Project Grant (R01)**
Funding Source: **National Institute on Deafness and Other Communication Disorders (NIDCD)**
Project title: Sensorimotor control of speech movements by cochlear implant recipients
Role: PI
Planned Submission: October 2025

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION (n=8) (* = joint 1st author, + = current or former student, ^s = senior author):

1. **Masapollo, M.**, Mims, M., Patel, R., Ramjee, V., & Ostry, D.J. (in preparation). The role of afferent oral somatosensory inputs in the coordination and control of speech movements: an electromagnetic articulography study.
2. **Masapollo, M.**, Nittrouer, S., Neumann, S., Ramjee, V., & Ostry, D.J. (in preparation). Differential use of auditory feedback in the control of speech movements by profoundly deaf talkers with cochlear implants and peers with normal hearing: evidence from tongue-jaw kinematics using electromagnetic articulography.
3. **Masapollo, M.**, ⁺Kota, S., Mims, M., Ramjee, V., Patel, R., & Nittrouer, S. (in preparation). Reliability of articulography measures of inter-articulator speech coordination.
4. **Masapollo, M.**, ⁺Leck, A., & Lee, Y. (in preparation). Spatiotemporal patterns of jaw open-close movements during speech production: an electromagnetic articulography study.
5. Polka, L., Alonso, F., Moradi, S., Phillips, N., Ménard, L., & **Masapollo, M.** (in preparation). Infants' attraction to infant vocalizations – a catalyst for infant development.
6. **Masapollo, M.**, van Vugt, F., & Ostry, D.J. (in preparation). Persistence of resting-state functional connectivity changes attributable to novel sensorimotor learning and retention: an fMRI study.
7. **Masapollo, M.**, ⁺Stewart, A., ⁺Ludwig, A., ⁺Kota, S., ⁺Leck, A., & Nittrouer, S. (in preparation). Temporal control parameters for speech movement coordination: an electromagnetic articulography study.
8. **Masapollo, M.**, Nittrouer, S., ⁺Gendron, R., ⁺Leck, A., & Ostry, D.J. (in preparation). Afferent auditory inputs regulate vocal tract constriction dynamics during speech production: an electromagnetic articulography study.

PEER REVIEWED MANUSCRIPTS (n=23) (* = joint 1st author, + = current or former student, ^s = senior author):

1. **Masapollo, M.**, ⁺Gendron, R., ⁺Wyndham, E., ⁺Marcellus, A., ⁺Shamsi, A., & Maxfield, N. (in press). Inter-articulator timing relations underlie the production of precise and consistent vocal tract constrictions during speech. *Journal of Speech, Language, and Hearing Research*.
2. **Masapollo, M.**, ⁺Rodriguez, A., ⁺Gendron, R., ⁺Kent, K., ⁺Thomas, H., & Nittrouer, S. (2025). Generalization of inter-articulator timing control: evidence from tongue-jaw and lip-jaw kinematics using electromagnetic articulography. *Journal of Speech, Language, and Hearing Research*. DOI: 10.1044/2024_JSLHR-24-00323. PMID: 39680804

3. **Masapollo, M.**, & Nittrouer, S. (2024). Immediate auditory feedback regulates inter-articulator speech coordination in service to phonetic structure. *Journal of the Acoustical Society of America*, 156(3), DOI: 10.1121/10.0028725. PMID: 39287467
4. Cheng, H.-S., **Masapollo, M.**, Hagedorn, C., & Buchwald, A. (2024). Temporal coordination of articulatory gestures for non-native onset clusters: evidence from American English speakers using electromagnetic articulography. *Journal of Speech, Language, and Hearing Research*. DOI: https://doi.org/10.1044/2024_JSLHR-24-00025. PMCID: PMC11482577.
5. **Masapollo, M.**, *Zezas, E., *Shamsi, A., Wayland, R., *Smith, D.J., & Guenther, F.H. (2023). Disentangling effects of working memory storage and inter-articulator coordination on generalization in speech motor sequence learning. *Journal of Psycholinguistic Research*. DOI: 10.1007/s10936-023-09998-5. PMID: 37488461; PMCID: PMC11034796.
6. **Masapollo, M.**, & Nittrouer, S. (2023). Inter-articulator speech coordination: timing is of the essence. *Journal of Speech, Language, and Hearing Research*, 66(3), 901-915. DOI: https://doi.org/10.1044/2022_JSLHR-22-00594. Supplemental Material. PMID: 36827516.
7. ***Masapollo, M.**, *Wayland, R., *Goel, J., *Sengupta, R., *Shamsi, A., & Hegland, K.W. (2022). An investigation of interference between electromagnetic articulography and electroglottography. *Journal of the Acoustical Society of America, Express Letters*, 2(9), 095204-1-8. PMID: 36182347.
8. Polka, L., **Masapollo, M.**, & Ménard, L. (2021). Setting the stage for speech production: Infants prefer listening to speech sounds with infant vocal resonances. *Journal of Speech, Language, and Hearing Research*. DOI: 10.1044/2021_JSLHR-21-00412. PMID: 34889651.
9. ***Masapollo, M.**, *Nittrouer, S., *Goel, J., & Oh, Y. (2021). Electromagnetic articulography appears feasible for assessment of speech motor skills in cochlear implant users. *Journal of the Acoustical Society of America, Express Letters*, DOI: 10.1121/10.0006719. PMID: 36154217. *Issue cover of journal.
10. Polka, L., Molnar, M., Zhao, C.T., **Masapollo, M.** (2021). Neurophysiological correlates of asymmetries in vowel perception: an English-French cross-linguistic ERP study. *Frontiers in Human Neuroscience*, doi: 10.3389/fnhum.2021.607148 PMID: 34149375; PMCID: PMC8209302.
11. Frankford, S.A., Heller Murray, E.S., **Masapollo, M.**, Shanqing, C., Tourville, J., Nieto-Castañón, A., & Guenther, F.H. (2021). The neural circuitry underlying the “rhythm effect” in stuttering. *Journal of Speech, Language, and Hearing Research*. DOI: 10.1044/2021_JSLHR-20-00328 PMID: 33887150; PMCID: PMC8740675.
12. *Liu, Y.Y., Polka, L., **Masapollo, M.**, & Ménard, L. (2021). Disentangling the roles of formant proximity and stimulus prototypicality in adult vowel perception. *Journal of the Acoustical Society of America, Express Letters*. doi: 10.1121/10.0003041. PMID: 36154080.
13. **Masapollo, M.**, Segawa, J.A., Beal, D., Tourville, J., Nieto-Castañón, A., Heyne, M., Frankford, S., & Guenther, F.H. (2020). Behavioral and neural correlates of speech motor sequence learning in stuttering and neurotypical adult speakers: an fMRI investigation. *Neurobiology of Language*. doi: 10.1162/nol_a_00027 PMCID: PMC8294667.
14. **Masapollo, M.**, & Guenther, F.H. (2019). Engaging the articulators enhances perception of concordant visible speech movements. *Journal of Speech, Language, and Hearing Research*, 62, 3679-3688. PMCID: PMC7201334.
15. Zhao, T.C., **Masapollo, M.**, Polka, L., Ménard, L., & Kuhl, P.K. (2019). Effects of formant proximity and stimulus prototypicality on the neural discrimination of vowels: Evidence from the auditory frequency-following response. *Brain and Language*, 194, 77-83. PMCID: PMC6697130.
16. *Segawa, J.A., ***Masapollo, M.**, Tong, M., Smith, D.J. & Guenther, F.H. (2019). Chunking of phonological units in speech sequencing. *Brain and Language*, DOI: 10.1016/j.bandl.2019.05.001 PMCID: PMC6686190.
17. **Masapollo, M.**, Zhao, T.C., Franklin, L., & Morgan, J.L. (2019). Asymmetric discrimination of non-speech tonal analogues of vowels. *Journal of Experimental Psychology: Human Perception and Performance*, 45(2), 285-300. PMCID: PMC6668332.

18. **Masapollo, M.**, Polka, L., Ménard, L., Franklin, L., Tiede, M., & Morgan, J.L. (2018). Asymmetries in unimodal visual vowel perception: The roles of oral-facial kinematics, orientation, and configuration. *Journal of Experimental Psychology: Human Perception and Performance*, 44(7), 1103-1118. PMID: PMC6037555.
19. **Masapollo, M.**, Polka, L., & Ménard, L. (2017). A universal bias in adult vowel perception – By ear or by eye. *Cognition*, 166, 358-370. PMID: 28601721.
20. **Masapollo, M.**, Polka, L., Molnar, M., & Ménard, L. (2017). Directional asymmetries reveal a universal bias in adult vowel perception. *Journal of the Acoustical Society of America*, 141(4), 2857-2869. PMID: 28464636.
21. **Masapollo, M.**, Polka, L., & Ménard, L. (2016). When infants talk, infants listen: Pre-babbling infants prefer infant speech. *Developmental Science*, doi: 10.1111/desc.12298. PMID: 25754812.
22. Polka, L., **Masapollo, M.**, & Ménard, L. (2014). Who's talking now? Infants' perception of vowels with infant vocal properties. *Psychological Science*, 25(7), 1448-1456. PMID: 24890498.
23. Demuth, K., Patroliia, M., Song, J.Y., & **Masapollo, M.** (2012). The development of articles in children's early Spanish: Prosodic interactions between lexical and grammatical form. Linguistic interfaces and language acquisition in childhood, J. Rotham & Pedro Guijarro-Fuentes (Eds.), *First Language*, 32, (1-2), 17-37.

PUBLISHED CONFERENCE PROCEEDINGS (n=2):

1. **Masapollo, M.**, Polka, L., Ménard, L., & Vouloumanos, A. (2013). Infant recognition of infant vocal signals. *Proceedings of Meetings on Acoustics*, doi: 10.1121/1.4798777
2. Polka, L., **Masapollo, M.**, & Ménard, L. (2013). Infants' categorization of vowels with infant vocal properties. *Proceedings of Meetings on Acoustics*, doi: 10.1121/1.4799537

BOOK CHAPTERS (n=1):

1. Polka, L., Ruan, Y., & **Masapollo, M.** (2019). Understanding vowel perception biases: a meta-analytic approach. *A Sound Approach to Language Matters – In Honor of Ocke-Schwen Bohn, Nyvad, A.M., Hejna, M., Hojen, A., Jespersen, A.B., & Hjortshoj, M. (Eds.)*, p. 561-582.

PUBLISHED MAGAZINE ARTICLES (n=4):

1. **Masapollo, M.** (2024). Auditory input regulates the real-time coordination of speech movements. *Hearing Health Foundation Magazine: Fall Issue*.
2. **Masapollo, M.** (2023). Speaking through color: the ongoing effort to train students of diverse backgrounds in speech communication and engineering research. *Hearing Health Foundation Magazine: Winter Issue*.
3. **Masapollo, M.** (2022). Improving how to assess speech production. *Hearing Health Foundation Magazine: Fall Issue*.
4. **Masapollo, M.** (2021). Verifying a novel method for assessing speech motor skills in children with cochlear implants. *Hearing Health Foundation Magazine: Fall Issue*.

INVITED PRESENTATIONS (n=38):

1. **Masapollo, M.** (2025). Sensorimotor control of speech movements by cochlear implant recipients. Hearing Health Journal Club, Hough Ear Institute, Oklahoma City, OK. January 2025.
2. **Masapollo, M.** (2025). Speech production in children with hearing loss. Hearing Loss Association of America Oklahoma Chapter, Will Rogers Garden Center, Oklahoma City, OK. January 2025.
3. **Masapollo, M.** (2024). Sensorimotor control of inter-articulator kinematics during speech production. "Advances in Speech Motor Control" workshop, Peter Gilgan Centre for Research and Learning, The Hospital for Sick Children, Toronto, Ontario, Canada. July 2024.

4. **Masapollo, M.** (2024). Sensorimotor control of speech movements by deaf talkers with cochlear implants. Center for Research on Brain, Language, and Music Showcase, Montreal Neurological Institute, Montreal, Quebec, Canada. July 2024.
5. **Masapollo, M.** (2024). Sensorimotor control of speech movements. Department of Communication Sciences and Disorders, University of Oklahoma Health Sciences, Oklahoma City, OK. July 2024.
6. **Masapollo, M.** (2024). Sensorimotor control of vocal tract articulation dynamics in speech. School of Communication Sciences and Disorders, University of Western Ontario, London, Ontario, Canada. June 2024.
7. **Masapollo, M.** (2024). Inter-articulator speech motor coordination and control. Department of Communication Sciences and Disorders, University of Utah, Salt Lake City, UT. February 2024.
8. **Masapollo, M.** (2024). Inter-articulator speech motor coordination and control. Department of Communication Sciences and Disorders, University of Kentucky, Lexington, KY. January 2024.
9. **Masapollo, M.** (2023). Control of inter-articulator speech coordination, Phonetics Laboratory, Department of Linguistics, University of Quebec, Montreal, Quebec, Canada. November 2023.
10. **Masapollo, M.** (2023). Sensory feedback and speech motor coordination. Center for Hearing Research, Boys Town National Research Hospital, Omaha, NE. August 2023.
11. **Masapollo, M.** (2023). Auditory feedback and the dynamic coordination of speech movements. Department of Audiology and Speech-Language Pathology, East Tennessee State University, Johnson City, TN. August 2023.
12. **Masapollo, M.** (2023). Auditory feedback and the online control of speech movements: implications for cochlear implant research. Laryngology Grand Rounds, College of Medicine Otolaryngology, University of South Florida, Tampa, FL. July 2023.
13. **Masapollo, M.** (2023). Auditory feedback and the dynamic coordination of speech movements. Department of Speech Language Pathology, Saint Mary's College, Notre Dame, IN. June 2023.
14. **Masapollo, M.** (2023). Synergies and coordinative principles in speech motor control. Department of Communication Sciences and Disorders, University of Vermont, Burlington, VT. February 2023.
15. **Masapollo, M.** (2023). Synergies and coordinative principles in speech motor control. Rehabilitation Science Graduate Program Seminar, University of Florida, Gainesville, FL. January 2023.
16. **Masapollo, M.** (2023). Synergies and coordinative principles in speech motor control. School of Communication Sciences and Disorders, University of Central Florida, FL. January 2023.
17. **Masapollo, M.** (2022). MIPA: A theory of phonological acquisition and speech motor control. School of Communication Sciences and Disorders, University of Memphis, Memphis, TN. April 2022.
18. **Masapollo, M.** (2022). Initial exploration of speech motor control in congenitally deaf talkers with cochlear implants. University of Florida Health Audiology, Gainesville, FL. April 2022.
19. **Masapollo, M.** (2022). MIPA: A theory of phonological acquisition and speech motor control. Medical Speech-Language Pathology Grand Rounds, University of Florida, Gainesville, FL. March 2022.
20. **Masapollo, M.** (2022). MIPA: A theory of phonological acquisition and speech motor control. Department of Communication Sciences and Disorders, University of South Florida, Tampa, FL. February 2022.
21. **Masapollo, M.** (2021). Speech motor sequence learning: timing, specificity, and neural substrates. School of Psychology and Clinical Language Sciences, University of Reading, Reading, UK. October 2021.
22. **Masapollo, M.** (2021). Speech motor sequence learning: timing, specificity, and neural substrates. Department of Linguistics, University of Florida, Gainesville, FL. March 2021.
23. **Masapollo, M.** (2020). Who's talking now? Infants' perception of speech sounds with infant vocal properties. Hearing Research Center Seminar Series, University of Florida, Gainesville, FL. October 2020.
24. **Masapollo, M.** (2020). Mechanisms of speech motor sequence learning. Medical Speech-Language Pathology Grand Rounds, University of Florida, Gainesville, FL. March 2020.
25. **Masapollo, M.** (2020). Universal biases in infant and adult perception of vowel elements in speech. Brain and Language Talk Series, University of Florida, Gainesville, FL. February 2020.

26. **Masapollo, M.** (2020). Mechanisms of speech motor sequence learning. Rehabilitation Science Graduate Program Seminar, University of Florida, Gainesville, FL. February 2020.
27. **Masapollo, M.** (2019). Speech motor sequence learning: timing, specificity, and neural substrates. Department of Speech, Language and Hearing Sciences, Boston University, Boston, MA. September 2019.
28. **Masapollo, M.** (2019). Speech production: mapping from sequences of phonological units to vocal tract articulations. Department of Speech, Language and Hearing Sciences, University of Florida, July 2019. Gainesville, FL.
29. **Masapollo, M.** (2019). Mapping from phonological units to vocal tract articulations: Nature and role of working memory capacity. Department of Communication Sciences and Disorders, University of Delaware, January 2019. Newark, DE.
30. **Masapollo, M.** (2018). Multi-sensory motor interactions in speech processing. Department of Communication Sciences and Disorders, State University of New York at Buffalo, December 2018. Buffalo, NY.
31. **Masapollo, M.** (2018). Effects of working memory capacity on speech motor chunking. Boston Speech Motor Control Working Group, Boston University, Boston, MA. June 2018.
32. **Masapollo, M.** (2018). Speech perception in adults and infants: Some universal characteristics and constraints. Center for Research in Sensory Communication and Emerging Neural Technology, Boston University, Boston, MA. April 2018.
33. **Masapollo, M.** (2018). Reading lips: Sensitivity to visible articulatory information in speech perception. Postdoctoral Seminar Series, Boston University, Boston, MA. March 2018.
34. **Masapollo, M.** (2017). On the nature of vowel perception biases. Staff Talks, Haskins Laboratories, January 2017, New Haven, CT. January 2017.
35. **Masapollo, M.** (2016). On the nature of vowel perception biases. LingLangLunch Seminar Series, Brown University, Department of Cognitive, Linguistic, and Psychological Science, Providence, RI. October 2016.
36. **Masapollo, M.** (2015). On the nature of vowel perception. University of Washington, Institute for Learning and Brain Sciences, Seattle, WA. September 2015.
37. **Masapollo, M.** (2014). Who's talking now? Infants' perception of vowels with infant vocal properties. Canadian Conference for Linguistics Undergraduates [keynote address], McGill University, Montreal, QC. March 2014.
38. **Masapollo, M.** (2013). Setting the stage for speech production: Infants' perception of infant vowels. Staff Talks, Haskins Laboratories, May 2013, New Haven, CT. May 2013.

CONFERENCE ABSTRACTS (n=90) (* = joint 1st author, + = current or former student, ^s = senior author):

1. **Masapollo, M.**, Nittrouer, S., +Gendron, R., Ménard, L., & Ostry, D.J. (submitted). Differential use of auditory input in the control of speech movements by cochlear implant recipients and peers with normal hearing: evidence from tongue-jaw kinematics using electromagnetic articulography. 5th Biennial Boston Speech Motor Control Symposium, Boston, MA.
2. **Masapollo, M.**, Nittrouer, S., +Gendron, R., +Leck, A., & Ostry, D.J. (submitted). Afferent auditory inputs regulate vocal tract constriction dynamics during speech production: an electromagnetic articulography study. 5th Biennial Boston Speech Motor Control Symposium, Boston, MA.
3. **Masapollo, M.**, +Stewart, A., +Ludwig, A., +Kota, S., +Leck, A., & Nittrouer, S. (submitted). Temporal control parameters for speech movement coordination: an electromagnetic articulography study. 5th Biennial Boston Speech Motor Control Symposium, Boston, MA.
4. **Masapollo, M.** (submitted). Training-induced changes to the brain during novel sensorimotor learning: Implications for neuroscience-based strategies for rehabilitation. 15th Annual College of Allied Health Research Day, Oklahoma City, OK.
5. +Leck, A., & ^s**Masapollo, M.** (submitted). Auditory input and speech motor control. 15th Annual College of Allied Health Research Day, Oklahoma City, OK.

6. ⁺^{*}Stewart, A., ⁺^{*}Ludwig, A., ⁺Kota, S., ⁺Leck, A., & [§]**Masapollo, M.** (submitted). Control parameters for speech movements. 15th Annual College of Allied Health Research Day, Oklahoma City, OK.
7. **Masapollo, M.**, van Vugt, F., & Ostry, D.J. (accepted). Persistence of resting-state functional connectivity changes attributable to novel sensorimotor learning and retention. Annual Meeting of the Society for the Neural Control of Movement, Panama City, Panama. [poster presentation]
8. **Masapollo, M.**, Nittrouer, S., ⁺Gendron, R., ⁺Wyndham, E., ⁺Marcellus, A., ⁺Moslemian, D., & Ostry, D.J. (accepted). Auditory input regulates vocal tract constriction dynamics during speech production. Annual Meeting of the Society for the Neural Control of Movement, Panama City, Panama. [poster presentation]
9. **Masapollo, M.**, Nittrouer, S., ⁺Gendron, R., Ménard, L., & Ostry, D.J. (accepted). Differential use of auditory feedback in the real-time coordination and control of speech movements by deaf talkers with cochlear implants and peers with normal hearing. 48th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Orlando, FL. [poster presentation]
10. van Vugt, F., **Masapollo, M.**, & Ostry, D.J. (2024). Functional changes in brain organization after de novo auditory-motor learning and retention: an fMRI investigation. 186th Meeting of the Acoustical Society of America, Ottawa, Canada. [poster presentation]
11. **Masapollo, M.**, & Nittrouer, S. (2024). Control parameters for coordinative structures in speech production. 186th Meeting of the Acoustical Society of America, Ottawa, Canada. [poster presentation]
12. **Masapollo, M.**, ⁺Rodriguez, A., ⁺Kent, K., ⁺Gendron, R., ⁺Thomas, H., Maxfield, N., & Nittrouer, S. (2024). Generalization of inter-articulator timing control: evidence from tongue-jaw and lip-jaw kinematics using electromagnetic articulography. 186th Meeting of the Acoustical Society of America, Ottawa, Canada. [poster presentation]
13. ⁺Shamsi, A., **Masapollo, M.**, ⁺Meyer, R., & Wayland, R. (2024). Effects of motor practice on the temporal coordination of articulatory movements for non-native onset clusters: kinematic and acoustic evidence using electromagnetic articulography. 186th Meeting of the Acoustical Society of America, Ottawa, Canada. [poster presentation]
14. ⁺Gendron, R., **Masapollo, M.**, & Ostry, D.J. (2024). Control parameters for coordinative structures in speech production. Annual Department of Psychology Undergraduate Student Research Symposium, McGill University, Montreal, Canada. [poster presentation]
15. ⁺Gendron, R., **Masapollo, M.**, & Ostry, D.J. (2024). Control parameters for coordinative structures in speech production. Annual Center for Research on Brain, Language, and Music Symposium, McGill University, Montreal, Canada. [poster presentation]
16. ⁺Kent, K., ⁺Rodriguez, A., ⁺Thomas, H., ⁺Gendron, R., **Masapollo, M.**, & Nittrouer, S. (2023). Generalization of inter-articulator timing control: evidence from tongue-jaw and lip-jaw kinematics using electromagnetic articulography. Fall Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
17. Polka, L., **Masapollo, M.**, Ménard, L., Rapin, L., & Schwartz, J.-L. (2023). Is focalization the keystone linking vowel perception and production? 20th International Congress of Phonetic Sciences, Prague, Czech Republic. [poster presentation]
18. ⁺^{*}Shamsi, A., ⁺**Masapollo, M.**, ⁺Meyer, R., & Wayland, R. (2023). Motor practice stabilizes the temporal coordination of articulatory movements for non-native onset clusters. 2023 Boston Speech Motor Control Symposium, Boston, MA. [poster presentation]
19. **Masapollo, M.**, ⁺Oberle, G., ⁺Burge, K., ⁺Lebedeker, A., ⁺Salazar, N., ⁺Ferdowsiepour, K., ⁺Rodriguez, A., & Nittrouer, S. (2023). Auditory feedback control of inter-articulator speech coordination: evidence from jaw and tongue tip movements. 2023 Boston Speech Motor Control Symposium, Boston, MA. [poster presentation]
20. Polka, L., **Masapollo, M.**, & Ménard, L. (2023). Asymmetries in vowel perception reflect focalization patterns, not peripherality: acoustic evidence from Canadian French /e/ and /Ø/. 184th Meeting of the Acoustical Society of America, Chicago, IL. [poster presentation]
21. **Masapollo, M.**, ⁺Oberle, G., ⁺Burge, K., ⁺Lebedeker, A., ⁺Salazar, N., ⁺Ferdowsiepour, K., ⁺Rodriguez, A., & Nittrouer, S. (2023). Auditory feedback control of inter-articulator speech coordination: evidence

- from tongue and jaw movements. 184th Meeting of the Acoustical Society of America, Chicago, IL. [poster presentation]
22. *Oberle, G., *Burge, K., *Lebedeker, A., *Rodriguez, A., Nittrouer, S., & **Masapollo, M.** (2023). Effects of auditory feedback on inter-articulator speech coordination in congenitally deaf talkers who received cochlear implants. Spring Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 23. *Aleena, A., *Kent, K., *Kondapalli, S., *Rodriguez, A., Nittrouer, S., & **Masapollo, M.** (2023). Test-retest reliability of single-subject articulographic recordings during speech production. Spring Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 24. *White, O., **Masapollo, M.**, Polka, L., & Ménard, L. (2023). On the relation between articulator positions and formants during speech production. Spring Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 25. *Oberle, G., *Burge, K., *Lebedeker, A., *Rodriguez, A., *Salazar, N., *Alex, A., **Masapollo, M.**, & Nittrouer, S. (2023). Auditory feedback control of inter-articulator speech coordination. 18th Annual Neuromuscular Plasticity Symposium, University of Florida, Gainesville, FL. [poster presentation]
 26. *Goel, J., **Masapollo, M.**, Wayland, R., *Sengupta, R., *Shamsi, A., & Hegland, K.W. (2023). An investigation of interference between electromagnetic articulography and electroglottography. 18th Annual Neuromuscular Plasticity Symposium, University of Florida, Gainesville, FL. [poster presentation]
 27. *Burge, K., *Lebedeker, A., *Rodriguez, A., *Oberle, G., *Ferdowsiepour, K., *Salazar, N., *Alex, A., *Fakhouri, M., *Redondo, M., Nittrouer, S., & **Masapollo, M.** (2023). Auditory feedback control of speech motor coordination: evidence from tongue and jaw movements. UF College of Public Health and Health Professions Annual Research Day, Gainesville, FL. [poster presentation]
 28. **Masapollo, M.**, & Nittrouer, S. (2022). Inter-articulator speech coordination: timing is of the essence. 183rd Meeting of the Acoustical Society of America, Nashville, TN. [podium presentation]
 29. *Goel, J., **Masapollo, M.**, Lee, Y., & Wayland, R. (2022). Concurrent visualization and analysis of acoustic, fleshpoint motion, and electroglottography signals during speech production. 183rd Meeting of the Acoustical Society of America, Nashville, TN. [poster presentation]
 30. *Goel, J., **Masapollo, M.**, Wayland, R., *Sengupta, R., *Shamsi, A., & Hegland, K.W. (2022). An investigation of interference between electromagnetic articulography and electroglottography. 183rd Meeting of the Acoustical Society of America, Nashville, TN. [poster presentation]
 31. **Masapollo, M.**, & Nittrouer, S. (2022). Spatiotemporal orchestration of the jaw and tongue tip during VCV utterances: an electromagnetic articulography study. 2022 American Speech and Hearing Association Convention. New Orleans, LA. [poster presentation]
 32. **Masapollo, M.**, Cheng, H.S., Hagedorn, C., & Buchwald, A. (2022). Native and non-native onset-vowel organization: an electromagnetic articulography study. 2022 American Speech and Hearing Association Convention. New Orleans, LA. [poster presentation]
 33. *Oberle, G., *Burge, K., *Lebedeker, A., *Salazar, N., *Rodriguez, A., *Ferdowsiepour, K., *Alex, A., *Fakhouri, M., *Redondo, M., Nittrouer, S., & **Masapollo, M.** (2022). Auditory feedback control of inter-articulator speech coordination. Fall Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 34. *Goel, J., **Masapollo, M.**, Wayland, R., *Sengupta, R., *Shamsi, A., & Hegland, K.W. (2022). An investigation of interference between electromagnetic articulography and electroglottography. Fall Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 35. *Goel, J., **Masapollo, M.**, Lee, Y., & Wayland, R. (2022). Concurrent visualization and analysis of acoustic, fleshpoint motion, and electroglottography signals during speech production. Fall Undergraduate Research Symposium, University of Florida, Gainesville, FL. [poster presentation]
 36. *Burge, K., *Ferdowsiepour, K., *Ginter, J., *Payne, K., **Masapollo, M.**, & Nittrouer, S. (2022). Establishing optimal methods and procedures for electromagnetic articulographic analyses at the University of Florida. Annual CSD Research Day, University of Florida, Gainesville, FL. [poster presentation]

37. *Smith, J., **Masapollo, M.**, Cheng, H.-S., Hagedorn, C., & Buchwald, A. (2022). Effects of phonotactic legality on gestural coordination in onset clusters: an electromagnetic articulography study. Annual CSD Research Day, University of Florida, Gainesville, FL. [poster presentation]
38. *Goel, J., **Masapollo, M.**, Nittrouer, S., & Oh, Y. (2022). Electromagnetic articulography is feasible for assessment of speech motor skills in cochlear implant users. Annual CSD Research Day, University of Florida, Gainesville, FL. [poster presentation]
39. *Goel, J., **Masapollo, M.**, Oh, Y., Lowenstein, J., & Nittrouer, S. (2022). Electromagnetic articulography is feasible for assessment of speech motor skills in cochlear implant users. 17th Annual Neuromuscular Plasticity Training Symposium, University of Florida, Gainesville, FL. [poster presentation]
40. **Masapollo, M.**, *Zezas, E., Smith, D.J., & Guenther, F.H. (2022). Disentangling effects of verbal working memory storage and familiar articulatory coordination on generalization in speech motor sequence learning. 2022 Motor Speech Conference, Charleston, SC. [poster presentation]
41. **Masapollo, M.**, Oh, Y., *Goel, J., Lowenstein, J., & Nittrouer, S. (2022). Electromagnetic articulography is feasible for assessment of speech motor skills in cochlear implant users. 2022 Motor Speech Conference, Charleston, SC. [poster presentation]
42. **Masapollo, M.**, & Nittrouer, S. (2021). MIPA: A theory of phonological acquisition and speech motor control. Acoustical Society of America, Florida Chapter, Gainesville, FL. [podium presentation]
43. *Cheng, H.-S., **Masapollo, M.**, Hagedorn, C., & Buchwald, A. (2021). Effects of phonotactic legality on gestural coordination in consonant clusters: an electromagnetic articulography study. 181st Meeting of the Acoustical Society of America, Seattle, WA. [poster presentation] (honorable mention in student poster competition)
44. Polka, L., **Masapollo, M.**, & Bohn, O.-S. (2021). Predicting asymmetries in vowel perception: formant convergence succeeds where peripherality fails. 181st Meeting of the Acoustical Society of America, Seattle, WA. [poster presentation]
45. **Masapollo, M.**, Oh, Y., *Goel, J., Lowenstein, J., & Nittrouer, S. (2021). Electromagnetic articulography is feasible for assessment of speech motor skills in cochlear implant users. 181st Meeting of the Acoustical Society of America, Seattle, WA. [poster presentation]
46. **Masapollo, M.**, & Nittrouer, S. (2021). MIPA: A theory of phonological acquisition and speech motor control. 181st Meeting of the Acoustical Society of America, Seattle, WA. [podium presentation]
47. **Masapollo, M.**, Oh, Y., *Goel, J., Lowenstein, J., & Nittrouer, S. (2021). Electromagnetic articulography appears feasible for assessment of speech motor skills in cochlear implant users. Acoustical Society of America, Florida Chapter, Gainesville, FL. [podium presentation]
48. **Masapollo, M.**, *Zezas, E., *Chappel, C., *Smith, J., *Salazar, N., & *Goel, J. (2021). Generalization as a window to speech motor sequence chunking. Boston Speech Motor Control Symposium, Boston, MA. [remote poster presentation]
49. **Masapollo, M.** (2020). Setting the stage for speech production: pre-babbling infants prefer speech sounds with infant vocal resonances, Acoustical Society of America, Florida Chapter, Gainesville, FL. [remote poster presentation]
50. Molnar, M., Polka, L., Zhao, C.T., **Masapollo, M.**, & Steinhauer, K. (2020). Asymmetric processing of between-category and within-category vowel contrasts in English and French listeners as reflected by the mismatch negativity and theta band oscillations. Society for the Neurobiology of Language, Virtual Meeting. [remote poster presentation]
51. Frankford, S., Cai, S., Tourville, J.A., Nieto-Castañón, A., **Masapollo, M.**, Heller Murray, L.S., & Guenther, F.H. (2020). The neural circuitry underlying the “rhythm effect” in stuttering. 12th International Seminar on Speech Production, Providence, RI. [remote poster presentation]
52. *Cheng, H.-S., ***Masapollo, M.**, Hagedorn, C., & Buchwald, A. (2020). Gestural coordination in non-native onset clusters: an electromagnetic articulography study, 12th International Seminar on Speech Production, Providence, RI. [remote poster presentation]

53. Polka, L., **Masapollo, M.**, & Ménard, L. (2020). Setting the stage for speech production: Infants prefer listening to speech sounds with infant vocal properties. 12th International Seminar on Speech Production, Providence, RI. [remote poster presentation]
54. **Masapollo, M.**, & Guenther, F.H. (2020). Dissociation between phonological working memory structures and motor programming units during speech motor sequence learning, 6th Florida Linguistics Yearly Meeting, Gainesville, FL. [podium presentation]
55. **Masapollo, M.**, & Guenther, F.H. (2020). Dissociation between phonological working memory structures and motor programming units during speech motor sequence learning, Acoustical Society of America, Florida Chapter, Gainesville, FL. [remote poster presentation]
56. Frankford, S., Cai, S., Tourville, J.A., Nieto-Castañón, A., **Masapollo, M.**, Heller Murray, L.S., & Guenther, F.H. (2020). The neural circuitry underlying the “rhythm effect” in stuttering. 20th Conference on Motor Speech. Santa Barbara, CA. [podium presentation]
57. Liu, Y.Y., **Masapollo, M.**, Ménard, L., & Polka, L. (2019). Factors shaping vowel perception biases in adults, 178th Meeting of the Acoustical Society of America [poster], San Diego, CA. [poster presentation]
58. Irwin, J., Lotto, A., Ryherd, K., & **Masapollo, M.** (2019). Does dynamic visual information in talking faces influence the perceptual restoration of phonemes?, 178th Meeting of the Acoustical Society of America, San Diego, CA. [poster presentation]
59. **Masapollo, M.**, & Smith, D.J., & Guenther, F.H. (2019). On the nature of working memory structures in speech sequencing, 178th Meeting of the Acoustical Society of America, San Diego, CA. [poster presentation]
60. **Masapollo, M.** (2019). Acoustic versus articulatory accounts of asymmetries in vowel perception. Special Session, Speech Communication Technical Committee, Universal and Experiential Influences on Phonetic Perception, 178th Meeting of the Acoustical Society of America, San Diego, CA. [podium presentation]
61. **Masapollo, M.**, & Smith, D.J., & Guenther, F.H. (2019). On the nature of working memory structures in speech sequencing, Boston Speech Motor Control Symposium, Boston, MA. [poster presentation]
62. **Masapollo, M.**, & Guenther, F.H. (2019). Somatosensory inputs from the vocal tract enhance perception of visible speech movements, Boston Speech Motor Control Symposium, Boston, MA. [poster presentation]
63. Zhao, T.C., **Masapollo, M.**, Polka, L., & Ménard, L. (2018). Effects of formant proximity and language experience on subcortical neural encoding of vowels in adulthood, 176th Meeting of the Acoustical Society of America, Victoria, BC. [poster presentation]
64. **Masapollo, M.**, & Guenther, F.H. (2018). Articulatory suppression enhances visual discrimination of speech, Society for the Neurobiology of Language, Québec City, QC. [poster presentation]
65. **Masapollo, M.**, Zhao, T.C., Polka, L., & Ménard, L. (2018). Neurophysiological correlates of directional asymmetries in adult vowel perception: An auditory brainstem study, Society for the Neurobiology of Language [poster], Québec City, QC. [poster presentation]
66. **Masapollo, M.**, Segawa, J.A., Tong, M., & Guenther, F.H. (2018). Evidence for the consonant cluster as a basic unit of speech motor sequencing. Representing Phonotactics, 16th Meeting of the Association for Laboratory Phonology, Satellite Workshop, Lisbon, Portugal. [podium presentation]
67. Polka, L., & **Masapollo, M.**, Noriega, P., & Liu, Y.Y. (2018). Directional asymmetries reveal a universal bias in infant auditory vowel perception. 16th Meeting of the Association for Laboratory Phonology, Lisbon, Portugal. [podium presentation] (acceptance rate = 7%)
68. Polka, L., & **Masapollo, M.**, Noriega, P., & Liu, Y.Y. (2018). A universal bias in the perception of vowels by young infants. International Conference on Infant Studies, Philadelphia, PA. [poster presentation]
69. **Masapollo, M.**, Franklin, L., Morgan, J.L., & Polka, L. (2018). Asymmetries in vowel perception arise from phonetic encoding strategies. 175th Meeting of the Acoustical Society of America, Minneapolis, MN. [poster presentation]

70. **Masapollo, M.**, Polka, L., Morgan, J.L., Franklin, L., & Ménard, L. (2017). Asymmetric discrimination of phonetically-incongruent audio-visual vowels. 174th Meeting of the Acoustical Society of America, New Orleans, LA. [poster presentation]
71. **Masapollo, M.**, Franklin, L., Morgan, J.L. & Polka, L. (2017). Articulatory peripherality modulates relative attention to the mouth during visual vowel perception. 173rd Meeting of the Acoustical Society of America, Boston, MA. [poster presentation]
72. **Masapollo, M.**, Polka, L., Ménard, L., Morgan, J.L. & Tiede, M. (2017). Oral-facial kinematics and configuration drive asymmetries in adult visual vowel perception. 173rd Meeting of the Acoustical Society of America, Boston, MA. [poster presentation]
73. **Masapollo, M.**, Polka, L., & Ménard, L. (2016). The role of visual-phonetic information from lip movements on the natural referent vowel bias. 15th Meeting of the Association for Laboratory Phonology, Ithaca, NY. [poster presentation]
74. Polka, L., **Masapollo, M.**, & Ménard, L. (2016). Infants prefer vowels with infant vocal resonances: Evidence for an “articulatory filter” bias. 15th Meeting of the Association for Laboratory Phonology, Ithaca, NY. [poster presentation]
75. **Masapollo, M.**, Polka, L., & Ménard, L. (2016). Visual influences on the natural referent vowel bias. 171st Meeting of the Acoustical Society of America, Salt Lake City, UT. [poster presentation]
76. Polka, L., **Masapollo, M.**, & Ménard, L. (2016). That sounds like me: Infants prefer vowels with infant vocal resonances. 171st Meeting of the Acoustical Society of America, Salt Lake City, UT. [poster presentation]
77. Polka, L., **Masapollo, M.**, & Ménard, L. (2016). Young infants’ listening preference for infant vowels: The role of voice pitch. XX International Conference on Infant Studies, New Orleans, LA. [podium presentation]
78. **Masapollo, M.**, Polka, L., & Ménard, L. (2015). Infants’ preference for infant speech over adult speech suggests an experience-based “articulatory filter.” 40th Annual Boston University Child Language Development Conference, Boston, MA. [poster presentation]
79. **Masapollo, M.**, Polka, L., & Ménard, L. (2015). Asymmetries in vowel perception: Effects of formant convergence and category “goodness.” 18th International Congress of Phonetic Sciences [lecture], Glasgow, Scotland. [podium presentation]
80. **Masapollo, M.**, Polka, L., & Ménard, L. (2015). Asymmetries in vowel perception: Effects of formant convergence and category “goodness”, 169th Meeting of the Acoustical Society of America, Pittsburgh, PA. [poster presentation]
81. **Masapollo, M.**, Polka, L., Rvachew, S., & Ménard, L. (2014). Insights into the development of perceptual-motor linkages for speech – a new view from data on pre-babbling infants’ processing of infant speech, 14th Meeting of the Association for Laboratory Phonology, Satellite Workshop, entitled, “Gestural coordination within and between speakers in first language phonological acquisition,” Tokyo, Japan. [poster presentation]
82. **Masapollo, M.**, Polka, L., & Ménard, L. (2014). Pre-babbling infants prefer infant speech: A launch pad for the perception-production loop? 14th Meeting of the Association for Laboratory Phonology, Tokyo, Japan. [podium presentation] (acceptance rate < 20%)
83. **Masapollo, M.**, Polka, L., Vouloumanos, A., & Ménard, L. (2014). Look who’s talking now: Intermodal matching of infant faces and voices by infants, XIX International Congress of Infant Studies, Berlin, Germany. [poster presentation]
84. **Masapollo, M.**, Polka, L., & Ménard, L. (2014). When infants talk, infants listen: Pre-babbling infants prefer infant speech. XIX International Congress of Infant Studies, Berlin, Germany. [poster presentation]
85. **Masapollo, M.**, & Polka, L. (2014). Asymmetries in vowel perception: Do they arise from focalization, perceptual magnets, or both? 167th Meeting of the Acoustical Society of America, Providence, R.I. [poster presentation]
86. **Masapollo, M.**, Polka, L., Vouloumanos, A., & Ménard, L. (2014). Infants’ perception of source size in vowels, 167th Meeting of the Acoustical Society of America, Providence, R.I. [poster presentation]

87. **Masapollo, M.**, Polka, L., & Ménard, L. (2014). Pre-babbling infants prefer listening to infant speech: Implications for vocal learning in humans, 167th Meeting of the Acoustical Society of America, Providence, R.I. [podium presentation]
88. **Masapollo, M.**, Polka, L., Ménard, L., & Vouloumanos, A. (2013). Infant recognition of infant vocal signals, 21st International Congress on Acoustics, Montreal, Canada. [poster presentation]
89. Polka, L., **Masapollo, M.**, & Ménard, L. (2013). Infants' categorization of vowels with infant vocal properties, 21st International Congress on Acoustics, Montreal, Quebec. [poster presentation]
90. **Masapollo, M.**, Polka, L., & Ménard, L. (2013). Who's talking now? Infants' perception of vowels with infant vocal tract parameters, 18th Mid-Continental Phonetics and Phonology Workshop, University of Michigan, Ann Arbor, MI. [podium presentation]
91. **Masapollo, M.**, Polka, L. & Ménard, L. (2012). Infants' perception of infant vowels, XVIII International Congress of Infant Studies, Minneapolis, MN. [poster presentation]

HONORS AND AWARDS:

- 2022 Dean's Citation Award, College of Public Health & Health Professions, University of Florida
- 2019 Young Investigator Travel Award, Acoustical Society of America
- 2014 Community Leader Award, Center for Research on Brain, Language, and Brain, McGill University
- 2014 Travel Award, Association for Laboratory Phonology
- 2014 Travel Award, School of Communication Sciences and Disorders, McGill University
- 2012 Travel Award, Center for Research on Brain, Language, and Music, McGill University
- 2010 International Doctoral Award, McGill University (tuition costs)
- 2010 Student Commencement Speaker, Department of Linguistics, University of Michigan

STUDENT/TRAINEE HONORS AND AWARDS:

- **Rosalie Gendron**, B.S. in Psychology, McGill University
Robert W. Wilson Scholarship, Faculty of Science, McGill University 2024
- **Ana Isabel Rodriguez**, B.H.S. in Communication Sciences & Disorders, UF
University Scholars Program, UF Center for Undergraduate Research 2023
Robert W. Young Award for Undergraduate Research in Acoustics, Acoustical Society of America 2022
- **Kara Kent**, B.H.S. in Communication Sciences & Disorders, UF
Emerging Scholars Program, UF Center for Undergraduate Research 2023
- **Grant Oberle**, B.H.S. in Communication Sciences & Disorders, UF
Edna L. Povey Award, UF SLHS (top academic achieving UG senior) 2022
University Scholars Program, UF Center for Undergraduate Research 2022
- **Jessica Goel**, B.S. in Biomedical Engineering, UF
Center for Undergraduate Research Travel Award, ASA, Nashville, TN 2022
Center for Undergraduate Research Travel Award, ASA, Seattle, WA 2021
- **Emily Zezas**, B.H.S. in Communication Sciences and Disorders, UF
Outstanding Leader Award, UF Alumni Association & Honors Program 2021
- **Kara Payne**, B.H.S. in Communication Sciences & Disorders, UF
Edna L. Povey Award, UF SLHS (top academic achieving UG senior) 2021

RESEARCH ADVISING:

Graduate Student Research Supervisor/Mentor (n=2)

1. **Rajiv Nauth**, Au.D. Program, University of South Florida 2023-24
(co-advised w/ Drs. C. Rogers and N. Maxfield)

Project: “Effects of immediate auditory feedback on inter-articulator timing control in speakers with normal-hearing and cochlear implant users”

2. **Allen Shami**, Ph.D. Program in Linguistics, UF 2021-23
(co-advised w/ Dr. R. Wayland)
Project: “Articulatory correlates of speech motor sequence learning”

Undergraduate Student Thesis Mentor (n=11)

1. **Sanjana Kota**, B.S. in Biology, OU 2024-
Thesis: “Inter-articulator speech motor coordination pre- and post-operatively in oral cavity cancer and facial nerve paralysis patients”
2. **Rosalie Gendron**, B.S. in Psychology, McGill University 2023-24
Thesis: “Generalization of inter-articulator timing control: evidence from tongue-jaw and lip-jaw kinematics”
3. **Ana Isabel Rodriguez**, B.H.S. in CSD, UF 2022-24
Thesis: “Synergies and coordinative principles in speech motor control: evidence from lip, tongue, and jaw movements” 2023
4. **Kayleigh Burge**, B.S. in Biology, UF 2022-23
Thesis: “Effect of auditory masking on inter-articulator speech coordination in normal-hearing speakers and congenitally deaf cochlear implant users”
5. **Grant Oberle**, B.H.S. in CSD, UF 2022-23
Thesis: “Auditory feedback control of inter-articulator speech coordination in normal-hearing speakers and congenitally deaf cochlear implant users”
6. **Abigail Lebedeker**, B.H.S. in CSD, UF 2022-23
Thesis: “Spatiotemporal coordination among the jaw and tongue tip in the speech of a 9-year-old child”
7. **Jessica Goel**, B.S. in Biomedical Engineering, UF 2022-23
Thesis: “Concurrent visualization and analysis of acoustic, fleshpoint motion, and electroglottography signals during speech production”
8. **Julia P. Ginter**, B.H.S. in CSD, UF 2021-2022
Thesis: “Spatiotemporal orchestration among the jaw and tongue tip during VCV utterances: an electromagnetic articulography study”
9. **Jessica A. Smith**, B.H.S. in CSD, UF 2021-2022
Thesis: “Organization of articulatory gestures for phonotactically legal and illegal syllable onset clusters: an electromagnetic articulography study”
10. **Emily Zezas**, B.H.S. in CSD, UF 2020-21
Thesis: “Specificity of speech motor sequence learning”
11. **Cassandra Chappell**, B.H.S. in CSD, UF 2020-21
Thesis: “Generalization as a window to speech motor sequence chunking”

Undergraduate Research Assistant Supervisor/Mentor (n=21)

1. **Ashlyn Ludwig**, B.S. in CSD, OU Health Sciences 2025-
2. **Ann Stewart**, B.S. in CSD, OU Health Sciences 2025-
3. **Alayna Leck**, B.S. in Computer Science, OU 2024-
4. **Dorsa Moslemian**, B.A. in Biology, McGill University 2023-25
5. **Erin Wyndham**, B.S. in Computer Science, McGill University 2023-25

6. Ally Marcellus , B.S. in Cognitive Science, McGill University	2023-25
7. Kara Kent , B.H.S. in Communication Sciences and Disorders, UF Project: “Speech motor coordination and control: simultaneous observation of lip, tongue, and jaw movements”	2022-23
8. Supratik Kondapalli , B.S. in Applied Physiology & Kinesiology, UF	2022-23
9. Hannah Thomas , B.H.S. in CSD, UF Project: “Silent lip reading in normal-hearing speakers and deaf cochlear implant users: an eye-tracking study”	2022-23
10. Aleena Alex , B.S., in Biomedical Engineering, UF Project: “Test-retest reliability of articulo-graphic recordings during speech production”	2022-23
11. Melina Redondo , B.H.S. in CSD, UF	2022
12. Mahmoud Fakhouri , B.S., in Biomedical Engineering, UF	2022
13. Kiana Ferdowsiepour , B.S. in Psychology, UF	2021-23
14. Kara Payne , B.H.S. in CSD, UF	2021-22
15. Morgan Powell , B.H.S. in CSD & Deaf and Hearing Studies, UF	2020-22
16. Nicholas Salazar , B.S. in Computer Science, UF	2020-22
17. Grecia Tragodara , B.S. in Computer Science, UF	2020-21
18. Ricardo Falsini , B.S. in Computer Science, Boston University	2018-19
19. Tess Fairchild , B.S. in Cognitive Science, McGill University	2018
20. Farwa Faheem , B.S. in Neuroscience, Boston University	2017-19
21. Ellen Macaruso , B.S. in Neuroscience, Brown University	2016-17

PRESS AND MEDIA COVERAGE OF RESEARCH:

Coverage of Masapollo & Nittrouer, 2024, JASA

- NeuroscienceNews.com: [Hearing loss disrupts speech coordination](#)
- McGill University Newsroom: [When we cannot hear our own speech, even temporarily, ability to speak is impaired: McGill study](#)
- Hearing Health Foundation: [Auditory input regulates the real-time coordination of speech movements](#)

Coverage of Polka & Masapollo, 2024, Acoustics Lay Language Papers

- Acoustical Society of America: [Babies lead the way – a discovery with infants brings new insights to vowel perception](#)

Coverage of Masapollo et al., 2022, JASA-EL

- Hearing Health Foundation: [Improving how to assess speech production](#)

Coverage of Polka, Masapollo, & Ménard, 2021, JSLHR

- SiriusXM Pandora, Doctor Radio interview
- MSN: [‘Baby Talk’ Is Really Helping Baby Learn](#)
- The Doctor Will See You Now: [What Baby Talk Does for Infants’ Language Development](#)
- California News Times: [It could help them learn to make words](#)
- CTV News: [Study finds speaking baby talk to infants may help them learn real words](#)
- London Daily Mirror: Parents are right to use baby babble
- Health Day: [‘Baby Talk’ Is Really Helping Baby Learn](#)
- Granthshala News: [‘Baby talk’ isn’t just cute! Speaking to your infant in exaggerated, singsong tones can help them learn to make words, study finds](#)
- Neuroscience News: [Speaking “Baby Talk” to Infants Isn’t Just Cute: It Could Help Them Learn to Make Words](#)
- The Daily Mail UK: [Baby talk’ isn’t just cute! Speaking to your infant in exaggerated, singsong tones can help them learn to make words, study finds](#)

- ScienceDaily: [From the mouths of babies: Infants really enjoy hearing from their peers](#)

Coverage of Masapollo et al., 2021, JASA-EL

Issue cover of *Journal of the Acoustical Society of America, Express Letters*

- Hearing Health Foundation: [Verifying a novel method for assessing speech motor skills in children with cochlear implants](#)
- University of Florida Health, Public Relations: [UF findings may lead to new field of study in speech production among users of cochlear implants](#)

Coverage of Masapollo et al., 2018, JEP:HPP

- Brown University Science News: [Study reveals vision's role in vowel perception](#)
- NeuroscienceNews: [Study reveals vision's role in vowel perception](#)
- ScienceDaily: [Vision's role in vowel perception](#)
- EurekaAlert! The Global Source for News (AAAS): [Vision's role in vowel perception](#)

Coverage of Masapollo et al., 2016, Developmental Science

- CNN: [Global 'goo-goo': What baby talk sounds like around the world](#)
- The American Speech-Language-Hearing Association Leader: [Babies want to listen to other babies](#)
- Grow by WebMD: [Babies like to hear other babies](#)
- Smithsonian.com: [The many ways baby talk gives infant brains a boost](#)
- ScienceDaily: [Baby talk: babies prefer listening to their own kind](#)
- CBC Toronto: [Goo goo gaa gaa': Infants prefer baby talk, research shows](#)
- The Daily Mail UK: [Shhh, mummy! Babies prefer each other's voices because it helps them learn to talk, researchers claim](#)
- Huffington Post: [Babies prefer listening to each other than to adults – as it helps them learn to speak](#)

TEACHING (*indicates new course development):

- ***CSD 5133 Research Foundations in Communication Disorders** (graduate, 3 credits) (2025-)
College of Allied Health, University of Oklahoma Health Sciences
Topics: Ethical, logical, practical and methodological considerations associated with research in speech/language pathology and audiology; basic concepts in data management; critical evaluation of research publications.
- ***HSC 4930 Speech Perception in Phonetics** (UG, 3 credits) (2022)
College of Public Health and Health Professions, University of Florida
Topics: measurement of speech movements; source-filter theory of speech production; computer-aided waveform analysis and spectral analysis of speech; perception of speech and non-speech sounds by humans and animals; models for speech motor control and perception; and speech development.
- ***SPA 3003 Articulatory, Acoustic, and Auditory Phonetics** (UG, 3 credits) (2020-23)
College of Public Health and Health Professions, University of Florida
Topics: measurement of speech movements; measurements of pressures and airflows in speech production; source-filter theory of speech production; computer-aided waveform analysis and spectral analysis of speech; perception of speech sounds; phonetic transcription; models for speech motor control and perception; speech development; and speech disorders.
- **SCSD 631 Speech Science** (graduate, 3 credits) (2015)
Faculty of Medicine, McGill University

PROFESSIONAL AFFILIATIONS:

Society for the Neural Control of Movement
Association for Research in Otolaryngology
Acoustical Society of America

PROFESSIONAL DEVELOPMENT:

- Developing Research Initiatives through Versatile Oncology Exploration Program (DRIVE), OU Health Stephenson Cancer Center (2025)
- fMRI Software Library Course, Oxford Center for fMRI of the Brain (2023)
- UF CTSI Mentor Academy (2022)
- Training in Grantsmanship for Rehabilitation Research (TIGRR), Medical University of South Carolina (MUSC) (2021)
- Early-Career Acousticians Retreat, 178th Meeting of the Acoustical Society of America, San Diego, CA (2019)

PROFESSIONAL SERVICE:

Grant Review

- National Institutes of Health, Auditory System study section (2025)

Service to ASHA

- Editorial Board Member, Journal of Speech, Language, and Hearing Research (Speech section) (2025-26)

Ad hoc Journal Reviewing Service

- Journal of Speech, Language, and Hearing Research; Journal of the Acoustical Society of America; Hearing Research

Conferences and workshops

- Technical Program Organizer, Speech Communication Technical Committee, 184th Meeting of the Acoustical Society of America, Chicago, IL (2023)
- Chair, Podium Session, Speech Communication: Topics in Speech Production, 183rd Meeting of the Acoustical Society of America, Nashville, TN (2022)
- Technical Program Organizer, Speech Communication Technical Committee, 183rd Meeting of the Acoustical Society of America, Nashville, TN. (2022)
- Technical Program Organizer, Speech Communication Technical Committee, 182nd Meeting of the Acoustical Society of America, Denver, CO (2022)
- Cochair w/ Drs. Patricia K. Kuhl and T. Christina Zhao, Special Session, Speech Communication Technical Committee, Development of Sensory-Motor Connections for Speech, 181st Meeting of the Acoustical Society of America, Seattle, WA (2021)
- Chair, Poster Session, Speech Communication: Speech Communication in Challenging Situations, 181st Meeting of the Acoustical Society of America, Seattle, WA (2021)
- Cochair and moderator w/ Dr. Linda Polka, Acoustical Society of America Webinar Series w/ speaker Dr. Patricia K. Kuhl (2021)
- Reviewer, 12th International Seminar on Speech Production, Providence, RI (2020)
- Judge, Speech Communication Student Poster Competition, 178th Meeting of the Acoustical Society of America, San Diego, CA (2019)
- Cochair w/ Dr. Linda Polka, Special Session, Speech Communication Technical Committee, Universal and Experiential Influences on Phonetic Perception, 178th Meeting of the Acoustical Society of America, San Diego, CA (2019)
- Volunteer, Boston University Conference on Language Development (2017-19)
- Paper Screening Committee, International Congress on Acoustics (2013)

UNIVERSITY SERVICE:

Department-level Service

- Member, Strategic Planning Committee, Research and Scholarship Subcommittee, Department of Communication Sciences and Disorders, OU Health Sciences (2024-)
- Chair, UF PPHP/SLHS SLP Search Committee, UF PPHP (2022)
- Organizer, Florida Chapter of the Acoustical Society of America Meeting (2021)
- Member, UF PPHP/SLHS Chair Search Committee (2020)
- Member, UF PPHP/SLHS Graduate Admissions Committee (2020)

College-level Service

- Member, Strategic Planning Committee, Discovery Working Group Subcommittee, College of Allied Health, OU Health Sciences (2024-)
- Judge, Student Poster Competition, UF PPHP 36th Annual Research Day (2023)
- Faculty Spotlight, Pride month, UF Center for Undergraduate Research (2022)
- Judge, Student Poster Competition, UF PPHP 35th Annual Research Day (2022)
- Chair, Rehabilitation Science Seminar Committee, UF PPHP (2022-23)
- Member, Rehabilitation Science Seminar Committee, UF PPHP (2021)
- Board Member, UF Language and Brain Interest Group (2021-22)
- Organizer, UF Hearing Research Center Seminar Series (2020-21)
- [LGBTQ+ Pride Video](#), UF PPHP (2021)
- Member, UF Hearing Research Center (2020-23)
- Judge, Student Poster Competition, UF PPHP 33rd Annual Research Day (2020)