

TARA McALLISTER
New York University
Steinhardt School of Culture, Education, and Human Development
Department of Communicative Sciences and Disorders
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EMPLOYMENT

<u>Date</u>	<u>Institution</u>	<u>Title</u>
2012-present	New York University Department of Communicative Sciences & Disorders Steinhardt School of Culture, Education, and Human Development Faculty affiliate: NYU Department of Linguistics (College of Arts and Science)	Assistant/Associate Professor
2009-2012	Montclair State University Department of Communication Sciences & Disorders	Assistant Professor
2007-2009	Children's Hospital, Boston Department of Neurology	Speech-Language Pathologist/ Clinical Fellow in Speech- Language Pathology

EDUCATION

<u>Date</u>	<u>Degree</u>	<u>Institution</u>	<u>Field</u>
2009	Ph.D.	Massachusetts Institute of Technology	Linguistics
2007	M.S.	Boston University	Communication Disorders
2003	A.M.	Harvard University	Linguistics
2003	A.B.	Harvard University <i>Summa cum laude</i>	Linguistics

PROFESSIONAL LICENSURE

ASHA Certificate of Clinical Competence in Speech-Language Pathology (2008-present)
State Licensure in Speech-Language Pathology: Massachusetts (2008-2010), New Jersey (2010-2013), New York (2013-present)

GRANTS

<u>Date</u>	<u>Award</u>
2019-2023	National Institute on Deafness and Other Communication Disorders Research Grant. (R01DC017476). <i>Biofeedback-enhanced treatment for speech sound disorder: Randomized controlled trial and delineation of sensorimotor subtypes</i> . Total direct costs: \$3,312,364. Role: PI.
2019-2021	National Institute on Deafness and Other Communication Disorders Individual Predoctoral Fellowship (F31DC018197). <i>Establishing the role of sensorimotor skills in speech development and disorders</i> . Total direct costs: \$54,418. Role: Mentor. PI: Heather Kabakoff (NYU).
2019-2021	National Institute on Deafness and Other Communication Disorders Research Grant (R21DC018170). <i>Characterizing bilingual speech sound production in Jamaican Creole and</i>

- English-speaking preschoolers*. Total NYU direct costs: \$67,956. Role: Co-investigator; PI of NYU subcontract. PI: Karla Washington (University of Cincinnati).
- 2018-2019 National Institute on Deafness and Other Communication Disorders Small Technology Transfer Innovation Research Grant (R41DC016778). *staRt: Enhancing speech treatment with smartphone-delivered biofeedback*. Total direct costs: \$190,635. Role: PI.
- 2017-2018 National Science Foundation Conference Grant. *Bridging the gap between phonological theory and research in speech disorders*. Total direct costs: \$13,296. Role: PI (joint work with Gillian Gallagher, NYU College of Arts and Science).
- 2016-2018 American Speech-Language-Hearing Foundation Clinical Research Grant. *Mobile-delivered biofeedback intervention for residual speech errors*. Total direct costs: \$75,000. Role: PI.
- 2015-2019 National Institute on Deafness and Other Communication Disorders Translational Research Grant. (R01DC013668). *Improving clinical speech remediation with ultrasound technology*. Total NYU direct costs: \$251,105. Role: Co-investigator; PI of NYU subcontract. PI: Douglas Whalen (Haskins Laboratories, CUNY Graduate Center).
- 2013-2016 National Institute on Deafness and Other Communication Disorders Research Grant (R03DC012883). *Understanding and eliminating residual speech errors with acoustic biofeedback*. Total direct costs: \$300,000. Role: PI.
- 2016-2017 NYU Research Challenge Fund. *TalkBirdy: A crowdsourced platform to evaluate human speech production*. Total direct costs: \$11,000. Role: Co-investigator. Lead PI: Daphna Harel, NYU Steinhardt.
- 2016-2018 NYU Center for Data Science Moore-Sloane Environment. *Estimating rater quality in a crowdsourced speech rating task*. Total direct costs: \$130,000 (salary for postdoctoral researcher). Role: PI (joint work with Daphna Harel, NYU Steinhardt, and Panos Ipeirotis, NYU Stern).
- 2014-2015 NYU Research Challenge Fund. *Interactive smartphone-delivered intervention for speech sound disorders in children*. Total direct costs: \$17,000. Role: PI (joint work with Tae Hong Park, NYU Steinhardt, and Mario Svirsky, NYU Langone).
- 2014-2015 Steinhardt Technology Award. *Enhancing speech intervention with smartphone-delivered biofeedback*. Total direct costs: \$15,000. Role: PI (joint work with Tae Hong Park, NYU Steinhardt, and Mario Svirsky, NYU Langone).
- 2013-2014 Steinhardt Innovative, Development, Exploratory Awards (IDEA) Grant. *Covert contrast in child phonology: Ultrasound imaging investigation of velar fronting*. Total direct costs: \$5,000. Role: Co-PI (joint work with Adam Buchwald, NYU Steinhardt).
- 2010 ASHFoundation Research Grant for New Investigators. *Traditional versus biofeedback intervention for /r/ misarticulation*. Total direct costs: \$5,000. Role: PI.
- 2010 Montclair State University Separately Budgeted Research Award. *Ultrasound investigation of speech-motor capabilities in preschool children*. Total direct costs: \$2,000. Role: Co-PI (joint work with Adam Buchwald, NYU Steinhardt).

FELLOWSHIPS AND HONORS

- 2017 ASHA Clinical Practice Research Institute Travel Fellowship
- 2014 IES Summer Research Training Institute Travel Fellowship
- 2013 ASHFoundation Grant Review and Reviewer Training
- 2012 ASHA Convention Meritorious Poster Award
- 2011 ASHA Clinical Practice Research Institute Travel Fellowship
- 2009 NIDCD Student Fellow, Research Symposium in Clinical Aphasiology
- 2003-2006 NSF Graduate Student Fellowship
- 2003 Phi Beta Kappa

BOOKS PUBLISHED

Shriberg, L.D., Kent, R.L., McAllister, T., & Preston, J.L. (2018). *Clinical Phonetics* (5th Edition). Pearson.

PEER-REVIEWED JOURNAL ARTICLES (* indicates student author)

- *Bu, L., Nagano, M., Harel, D., & McAllister, T. (In press). Effects of practice variability on second-language speech production training. Forthcoming in *Folia Phoniatrica et Logopaedica*.
- *Nightingale, C., *Swartz, M., Ramig, L. O., & McAllister, T. (2020). Using crowdsourced listeners' ratings to measure speech changes in hypokinetic dysarthria: A proof-of-concept study. *American Journal of Speech-Language Pathology*. DOI: 10.1044/2019_AJSLP-19-00162
- *Cialdella, L., *Kabakoff, H., Preston, J. L., Dugan, S., *Spencer, C., Boyce, S., Tiede, M., Whalen, D.H., & McAllister, T. (2020). Auditory-perceptual acuity in rhotic misarticulation: baseline characteristics and treatment response. *Clinical Linguistics & Phonetics*. DOI: 10.1080/02699206.2020.1739749
- *Kawitzky, D., & McAllister, T. (2020). The effect of formant biofeedback on the feminization of voice in transgender women. *Journal of Voice*, 34(1): 53-67. DOI: [10.1016/j.jvoice.2018.07.017](https://doi.org/10.1016/j.jvoice.2018.07.017)
- McAllister, T., Preston, J. L., Hitchcock, E. R., & Hill, J. (2020). Protocol for Correcting Residual Errors with Spectral, Ultrasound, Traditional Speech therapy Randomized Controlled Trial (C-RESULTS RCT). *BMC Pediatrics*, 20: 66. DOI: <https://doi.org/10.1186/s12887-020-1941-5>
- *Li, J.J., *Ayala, S., Harel, D., Shiller, D., & McAllister, T. (2019). Individual predictors of response to biofeedback training for second-language production. *Journal of the Acoustical Society of America*, 146(6), 4625. DOI: 10.17605/OSF.IO/MTZ5C
- *Klaus, A., Lametti, D., Shiller, D., & McAllister, T. (2019). Can perceptual training alter the effect of visual biofeedback in speech-motor learning? *Journal of the Acoustical Society of America*, 145(2), 805-817.
- Harel, D., & McAllister, T. (2019). Multilevel models for communication sciences and disorders. *Journal of Speech, Language, and Hearing Research*, 62(4), 783-801.
- Preston, J.L., McAllister, T., Phillips, E., Boyce, S.E., Tiede, M., *Kim, J.S., Whalen, D.H. (2019). Remediating residual rhotic errors with traditional and ultrasound-enhanced treatment: A single-case experimental study. *American Journal of Speech-Language Pathology*, 28(3), 1167-1183.
- Fernandez, D., Harel, D., Ipeirotis, P., & McAllister, T. (2019). Statistical considerations for crowdsourced perceptual ratings of human speech production. *Journal of Applied Statistics*, 46(8), 1364-1384.
- *Dugan, S., Silbert, N., McAllister Byun, T., Preston, J. L., Sotto, C., & Boyce, S. E. (2019). Modeling category goodness judgments in children with residual sound errors. *Clinical Linguistics & Phonetics*, 33(4), 295-315.
- *Small, H. C., McAllister, T., & Grigos, M. (2018). Investigating the use of a nonspeech task to measure tongue-jaw differentiation: Findings across typical development. *American Journal of Speech-Language Pathology*, 27(3), 1030-1038.
- Preston, J. L., McAllister, T., Phillips, E., Boyce, S.E., Tiede, M., *Kim, J.S., Whalen, D.H. (2018). Treatment for residual rhotic errors with high and low frequency ultrasound visual feedback: A single case experimental design. *Journal of Speech, Language & Hearing Research*, 61(8), 1875-1892.
- McAllister Byun, T. (2017). Efficacy of visual-acoustic biofeedback intervention for residual rhotic errors: A single-subject randomization study. *Journal of Speech, Language, and Hearing Research*, 60, 1175-1193.
- McAllister Byun, T., *Campbell, H., *Liang, W., Park, T.-H., & Svirsky, M. (2017). Enhancing intervention for residual rhotic errors via app-delivered biofeedback: A case study. *Journal of Speech, Language, and Hearing Research*, 60, 1810-1817.
- McAllister Byun, T., Hitchcock, E. R., & Ferron, J. M. (2017). Masked visual analysis: Minimizing type I error in response-guided single-case design for communication disorders. *Journal of Speech, Language, and Hearing Research*, 60(6), 1455-1466.
- McAllister Byun, T., & Tiede, M. (2017). Perception-production relations in later development of American English rhotics. *PLoS ONE* 12(2): e0172022. doi:10.1371/journal.pone.0172022
- *Campbell, H., Harel, D., Hitchcock, E., & McAllister Byun, T. (2018). Selecting an acoustic correlate for automated measurement of American English rhotic production in children. *International Journal of Speech-Language Pathology*, 20(6), 635-643.
- *Campbell, H., & McAllister Byun, T. (2017). Deriving individualized /r/ targets from the acoustics of

- children's non-rhotic vowels. *Clinical Linguistics and Phonetics*, 32(1), 70-87.
- Hitchcock, E.R., McAllister Byun, T., *Swartz, M.T., & Lazarus, R. (2017). Efficacy of electropalatography for treating misarticulation of /r/. *American Journal of Speech-Language Pathology*, 26(4), 1141-1158.
- Preston, J.L., McAllister Byun, T., Boyce, S.E., *Hamilton, S., Tiede, M., Phillips, E., Rivera-Campos, A. & Whalen, D.H. (2017). Ultrasound images of the tongue: Applications for assessment and remediation of speech sound errors. *Journal of Visualized Experiments*, 119, e55123, doi:10.3791/55123.
- McAllister Byun, T., & *Campbell, H. (2017). Differential effects of visual-acoustic biofeedback intervention for residual speech errors. *Frontiers in Human Neuroscience*, 10. Available at <http://dx.doi.org/10.3389/fnhum.2016.00567>
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2016). The A-map model: Articulatory reliability in child-specific phonology. *Language*, 92(1), 141-178.
- McAllister Byun, T., & Tessier, A.-M. (2016). Motor influences on grammar in an emergentist model of phonology. *Language and Linguistics Compass* 10(9), pp. 431-452.
- Long, M.A., Katlowitz, K.A., Svirsky, M., Clary, R.C., McAllister Byun, T., Oki, H., Howard, M.A., Greenlee, J.D.W. (2016). Functional segregation of cortical regions underlying speech timing and articulation. *Neuron*, 89(6), 1187-1193.
- McAllister Byun, T., Harel, D., Halpin, P.H., & *Szeredi, D. (2016). Deriving gradient measures of child speech from crowdsourced ratings. *Journal of Communication Disorders*, 64, 91-102.
- Harel, D., Hitchcock, E. R., *Szeredi, D., Ortiz, J., & McAllister Byun, T. (2016). Finding the experts in the crowd: Accuracy and reliability in crowdsourced measures of children's covert contrasts. *Clinical Linguistics and Phonetics*, 31, 104-117.
- McAllister Byun, T., & Rose, Y. (2016). Analyzing clinical phonological data using Phon. *Seminars in Speech and Language*, 37(2), 85-105.
- McAllister Byun, T., *Swartz, M. T., Halpin, P. F., Szeredi, D., & Maas, E. (2016). Direction of attentional focus in biofeedback treatment for /r/ misarticulation. *International Journal of Language & Communication Disorders*, 51(4), 384-401.
- McAllister Byun, T., Halpin, P. F., & *Szeredi, D. (2015). Online crowdsourcing for efficient rating of speech: A validation study. *Journal of Communication Disorders*, 53, 70-83.
- McAllister Byun, T., Buchwald, A., & *Mizoguchi, A. (2015). Covert contrast in velar fronting: An acoustic and ultrasound study. *Clinical Linguistics and Phonetics*, 30, 249-276.
- Hitchcock, E. R., Harel, D., & McAllister Byun, T. (2015). Social, emotional, and academic impact of residual speech errors in school-age children: A survey study. *Seminars in Speech and Language*, 36, 283-294.
- McAllister Byun, T. (2015). Perceptual discrimination across contexts and contrasts in preschool-aged children. *Lingua*, 160, 38-53.
- McAllister Byun, T., Hitchcock, E. R., & *Swartz, M. T. (2014). Retroflex versus bunched in treatment for /r/ misarticulation: Evidence from ultrasound biofeedback intervention. *Journal of Speech, Language, and Hearing Research*, 57(6), 2116-2130.
- Hitchcock, E. R., & McAllister Byun, T. (2014). Enhancing generalization in biofeedback intervention using the challenge point framework: A case study. *Clinical Linguistics and Phonetics*, 29(1), 59-75.
- Klein, H., McAllister Byun, T., Davidson, L., & Grigos, M. (2013). A multidimensional investigation of children's /r/ productions: Perceptual, ultrasound, and acoustic measures. *American Journal of Speech-Language Pathology*, 22, 540-553.
- McAllister Byun, T., & Hitchcock, E. (2012). Investigating the use of traditional and spectral biofeedback approaches to intervention for /r/ misarticulation. *American Journal of Speech-Language Pathology*, 21, 207-221.
- Klein, H., Grigos, M., McAllister Byun, T., & Davidson, L. (2012). The relationship between listeners' perceptions and acoustic correlates of children's /r/ productions. *Clinical Linguistics and Phonetics*, 26, 628-645.
- McAllister Byun, T. (2012). Bidirectional perception-production relations in phonological development: Evidence from positional neutralization. *Clinical Linguistics and Phonetics*, 26(5), 397-413.
- McAllister Byun, T. (2012). Positional velar fronting: An updated articulatory account. *Journal of Child*

Language, 39(5), 1043-1076.

McAllister Byun, T. (2011). A gestural account of a child-specific neutralisation in strong position.

Phonology, 28(3), 371-412.

McAllister, T., Bachrach, A., Waters, G., Michaud, J., & Caplan, D. (2009). Production and comprehension of unaccusatives in aphasia. *Aphasiology*, 23(7), 989-1004.

WORKING PAPERS AND CONFERENCE PROCEEDINGS

*Li, J. J., *Ayala, S., Shiller, D & McAllister, T. (2019). Predictors of L2 vowel learning success under biofeedback training. Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia.

Whalen, D. H., Kang, J., Iwasaki, R., Shejaeya, G., Kim, B., Roon, K. D., Tiede, M. K., Preston, J. L., Phillips, E., McAllister, T., & Boyce, S. E. Accuracy assessments of hand and automatic measurements of ultrasound images of the tongue. Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia.

McAllister Byun, T., Halpin, P., & Harel, D. (2015). Crowdsourcing for gradient ratings of child speech: Comparing three methods of response aggregation. Proceedings of the 18th International Conference of Phonetic Sciences, Glasgow, UK.

McAllister Byun, T., Hitchcock, E., & Harel, D. (2015). Validating and optimizing a crowdsourced method for gradient measures of child speech. Proceedings of Interspeech 2015 Special Session: Advanced Crowdsourcing for Speech and Beyond, Dresden, Germany.

McAllister Byun, T., & Inkelas, S. (2013). Child consonant harmony and phonologization of performance errors. Working papers from the 43rd meeting of the North East Linguistic Society, New York, NY.

McAllister Byun, T., Richtsmeier, P., & Maas, E. (2013). Covert contrast in child phonology is not necessarily extragrammatical. Extended abstracts from the annual meeting of the Linguistic Society of America, Boston, MA.

PEER-REVIEWED CONFERENCE PRESENTATIONS (* indicates student author)

*Li, J. J., *Ayala, S., Shiller, D & McAllister, T. (2019). Predictors of L2 vowel learning success under biofeedback training. Talk presented at the 19th International Congress of Phonetic Sciences, Melbourne, Australia.

*Feeny, G. T., *Kabakoff, H., Phillips, E., Tiede, M., Preston, J. L. & McAllister, T. (2019). Longitudinal emergence of perception, production, and motor skills in preschoolers. Poster presented at the Boston Speech Motor Control Symposium. Boston, MA.

*Li, J. J., *Ayala, S., Harel, D., Shiller, D., Niziolek, C. A. & McAllister, T. Effect of biofeedback training on online correction in L2 vowel production. Poster presented at the Boston Speech Motor Control Symposium. Boston, MA.

*Abu El Adas, S., Washington, K., Sosa, A. & McAllister, T. (2019). Variability across repeated productions in bilingual children speaking Jamaican Creole and English. Talk presented at the International Child Phonology Conference, Montreal, Canada.

*Feeny, G.T., *Kabakoff, H., Phillips, E., Tiede, M., Preston, J.L., & McAllister, T. (2019). Motor and perceptual precursors of speech production: A longitudinal study. Talk presented at the International Child Phonology Conference, Montreal, Canada.

*Kabakoff, H., *Feeny, G.T., Tiede, M., Preston, J.L. & McAllister, T. (May 15, 2019). Detecting changes in lingual differentiation over the course of speech sound intervention. Poster presented at the 177th Meeting of the Acoustical Society of America, Louisville, KY.

*Ayala, S., *Li, J.J., McAllister, T., & Shiller, D. (2018). Does auditory acuity predict response to visual-acoustic biofeedback? Poster presented at ASHA 2018, Boston, Massachusetts.

*Cialdella, L., *Kabakoff, H., *Preminger, K., & McAllister, T. (2018). Perceptual characteristics of children with rhotic misarticulation. Poster presented at ASHA 2018, Boston, Massachusetts.

*Kabakoff, H., McAllister, T., Preston, J., Tiede, M., & Whalen, D. (2018). Identifying individualized

- sensorimotor predictors of response to ultrasound treatment. Poster presented at ASHA 2018, Boston, Massachusetts.
- *Li, J.J., *Ayala, S., Shiller, D & McAllister, T. Predictors of learning success in ultrasound biofeedback training. Poster presented at ASHA 2018, Boston, Massachusetts.
- *Campbell, H., *Cialdella, L., & McAllister, T. (2018). Perception-production relations in residual speech errors before and after biofeedback training. Poster presented at the 176th Meeting of the Acoustical Society of America, Victoria, Canada.
- *Abu El Adas, S., McAllister, T. & Washington, K. (2018). Variability across repeated productions in bilingual children acquiring Jamaican Creole and English. Sounds of Advocacy, Language and Liberation Conference, Kingston, Jamaica.
- *McCabe, C., *Campbell, H., Harel, D., & McAllister, T. (2018). Clinical evidence for the representational status of American English rhotic allophones. LabPhon16, Lisbon, Portugal.
- *Li, J.J., *Ayala, S., Shiller, D & McAllister, T. (2018). Perceptual acuity as a predictor of learning success in biofeedback-enhanced speech production training. LabPhon16, Lisbon, Portugal.
- *Campbell, H., Whalen, D.H., and McAllister, T. (2018). Extending lingual complexity measures to speech development and disorders. The Conference on Motor Speech 2018, Savannah, GA.
- *Li, J.J., *Ayala, S., Shiller, D & McAllister, T. (2018). Do individual differences predict learning outcomes in biofeedback training? The Conference on Motor Speech, Savannah, GA.
- *Campbell, H., McAllister, T., & Whalen, D.H. (2017). Quantifying complexity of children's tongue contours using ultrasound imaging. Annual Meeting on Phonology, New York, NY.
- *Klaus, A., Lametti, D., Shiller, D., & McAllister, T. (2017). Can perceptual training alter the ability to match a visually presented acoustic target? Poster presented at the 7th International Conference on Speech Motor Control, Groningen, the Netherlands.
- McAllister Byun, T., Harel, D., Hitchcock, E.R., & *Lopez, M. (2017). Not-quite-naïve listeners: Students as an audience for gamified crowdsourcing. Talk presented at the 173rd meeting of the Acoustical Society of America, Boston, MA.
- McAllister Byun, T., Harel, D., Hitchcock, E.R., & *Lopez, M. (2017). Students' perceptual ratings of child speech: Accuracy, efficiency, and gamification. Talk presented at the International Child Phonology Conference, Washington, D.C.
- *Nightingale, C., *Swartz, M. T., Ramig, L., & McAllister Byun, T. (2016). Acoustic measures versus crowdsourced listeners' ratings: Evaluating the efficacy of treatment for hypokinetic dysarthria. Poster presented at the 5th Joint Meeting Acoustical Society of America and Acoustical Society of Japan, Honolulu, HI.
- McAllister Byun, T., & *Campbell, H. (2016). Visual-acoustic biofeedback for residual /r/ errors: Synthesis of research & implications for practice. Talk presented at ASHA 2016, Philadelphia, PA.
- *Kawitzky, D., & McAllister Byun, T. (2016). The effect of biofeedback on the feminization of voice in transgender women. Poster presented at ASHA 2016, Philadelphia, PA.
- Hitchcock, E., McAllister Byun, T., *Lopez, M., & *Dioguardi, L. (2016). Comparing perceptual ratings of /r/ accuracy across expert & crowdsourced listeners. Poster presented at ASHA, Philadelphia, PA.
- McAllister Byun, T., & Tessier, A.-M. (2016). Production influences on phonological representation in an emergentist grammar. Poster presented at 15th Conference on Laboratory Phonology, Ithaca, NY.
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2016). Stable motor plans as local attractors in speech development. Poster presented at the 15th Conference on Laboratory Phonology, Ithaca, NY.
- McAllister Byun, T., Harel, D., Hitchcock, E.R., Ortiz, J., & *Szeredi, D. (2016). Finding the experts in the crowd: Validity and reliability of crowdsourced listeners' ratings of clinical speech samples. Poster presented at Motor Speech 2016, Newport Beach, CA.
- McAllister Byun, T., *Campbell, H., *Carey, H., *Forsyth, J., *Liang, W., Park, T. H., *Sanders, T., Steklov, N., & Svirsky, M. (2016). Enhancing speech intervention through app-delivered biofeedback: Pilot testing. Talk presented at Motor Speech 2016, Newport Beach, CA.
- McAllister Byun, T., Harel, D., Hitchcock, E.R., Ortiz, J., *Szeredi, D. (2016). Predicting crowdsourced listeners' ability to detect gradient phonetic contrast in child speech. Poster presented at the annual conference of the Linguistic Society of America, Washington, DC.
- *Campbell, H., & McAllister Byun, T. (2015). Individualized targets for acoustic biofeedback to treat

- residual /r/ errors. Poster presented at ASHA 2015, Denver, CO.
- *Small, H., McAllister Byun, T., & Grigos, M. (2015) Measuring tongue-jaw differentiation with facial-tracking technology: Developmental findings. Talk presented at ASHA 2015, Denver, CO.
- Hitchcock, E. R., McAllister Byun, T., & Harel, D. (2015). When should we treat residual speech errors? Survey data on social, emotional, and academic impacts. Talk presented at ASHA 2015, Denver, CO.
- McAllister Byun, T., Hitchcock, E., & Harel, D. (2015). Validating and optimizing a crowdsourced method for gradient measures of child speech. Poster presented at Interspeech 2015, Dresden, Germany.
- McAllister Byun, T., Halpin, P., & Harel, D. (2015). Crowdsourcing for gradient ratings of child speech: Comparing three methods of response aggregation. Talk presented at the 18th International Congress of Phonetic Sciences, Glasgow, UK.
- McAllister Byun, T., & Buchwald, A. (2015). Motor-acoustic mappings shape child phonology: Evidence from a circular chain shift. Talk presented at the International Child Phonology Conference, St. John's, Canada.
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2014). Parallels in speech acquisition and loss as evidence for a grammar of articulatory reliability. Talk presented at NELS 45, Cambridge, MA.
- McAllister Byun, T., Adlof, S., & Moore, M. (2014). Bringing the crowdsourcing revolution to research in communication disorders. Talk presented at ASHA 2014, Orlando, FL.
- McAllister Byun, T., Buchwald, A., & *Mizoguchi, A. (2014). Covert contrast in velar fronting: An ultrasound study. Talk presented at ASHA 2014, Orlando, FL.
- McAllister Byun, T., Hitchcock, E. R., & Ortiz, J. (2014). Challenge-R: Computerized challenge point treatment for /r/ misarticulation. Talk presented at ASHA 2014, Orlando, FL.
- Klein, H. B., McAllister Byun, T., & Hitchcock, E. R. (2014). Approaches to vocalic and consonantal /r/ intervention: Auditory, acoustic, ultrasound. Talk presented at ASHA 2014, Orlando, FL.
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2014). Interactions between phonological grammar and motor control: Evidence from speech acquisition and loss. Talk presented at Phonology 2014, Cambridge, MA.
- McAllister Byun, T., Halpin, P., & *Szeredi, D. (2014). Validity of crowdsourced ratings of disordered speech. Talk presented at the 2nd Annual Workshop on Crowdsourcing and Online Behavioral Experiments, 15th ACM Conference on Economics and Computation, Palo Alto, CA.
- McAllister Byun, T., & Tiede, M. (2014). Perceptual acuity and production distinctness in child speech: Data from American English /r/. Talk presented at the 167th meeting of the Acoustical Society of America, Providence, RI.
- McAllister Byun, T., & Tiede, M. (2014). Perception-production relations in later development of American English /r/. Talk presented at the Workshop on Late Stages in Speech and Communication Development, University College, London.
- McAllister Byun, T., Halpin, P., & *Szeredi, D. (2014). Assessing the validity of a crowdsourcing approach to speech data rating. Talk presented at Motor Speech 2014, Sarasota, FL.
- McAllister Byun, T., *Swartz, M. T., & Maas, E. (2014). Direction of attentional focus in speech-motor learning: Evidence from biofeedback intervention. Poster presented at Motor Speech 2014, Sarasota, FL.
- McAllister Byun, T., Hitchcock, E. R., & *Swartz, M. T. (2013). Targeting retroflex versus bunched /r/: Evidence from ultrasound biofeedback intervention. Talk presented at ASHA 2013, Chicago, IL.
- McAllister Byun, T., Maas, E., & *Swartz, M. T. (2013). Motor learning principles in /r/ treatment: Direction of attentional focus. Talk presented at ASHA 2013, Chicago, IL.
- Hitchcock, E. R., & McAllister Byun, T. (2013). Enhancing generalization in biofeedback intervention using the challenge point framework. Poster presented at ASHA 2013, Chicago, IL.
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2013). Explaining child-specific phonology with a grammar of articulatory reliability: The A-map model. Poster presented at Phonology 2013, Amherst, MA.
- McAllister Byun, T., & Hitchcock, E. R. (2013). Retroflex versus bunched /r/ in ultrasound intervention: One shape does not fit all? Talk presented at Ultrafest VI, Edinburgh, Scotland.
- McAllister Byun, T. (2013). Discriminability across contexts and contrasts in preschool children:

How different are child and adult patterns of perceptual sensitivity? Talk presented at the International Child Phonology Conference, Nijmegen, the Netherlands.

- Klein, H., McAllister Byun, T., Davidson, L., & Grigos, M. (2013). Undifferentiated tongue shapes for /r/: Ultrasound, perceptual, and acoustic correlates. Talk presented at the International Child Phonology Conference, Nijmegen, the Netherlands.
- Inkelas, S., & McAllister Byun, T. (2013). Ontogeny recapitulates phylogeny: Child speech development as a microcosm of sound change. Talk presented at the Workshop on Sound Change Actuation, University of Chicago, Chicago, IL.
- McAllister Byun, T., Richtsmeier, P., & Maas, E. (2013). Covert contrast in child phonology is not necessarily extragrammatical. Poster presented at the annual conference of the Linguistic Society of America, Boston, MA.
- McAllister Byun, T., & Swartz, M. T. (2012). Using ultrasound biofeedback to establish correct /r/ in children. Poster presented at ASHA 2012, Atlanta, GA.
- McAllister Byun, T., & Inkelas, S. (2012). Child consonant harmony and phonologization of performance errors. Poster presented at the annual meeting of the North East Linguistic Society, New York, NY.
- McAllister Byun, T., Inkelas, S., & Rose, Y. (2012). Transient phonology, CON and child phonological processes. Talk presented at the 20th Manchester Phonology Meeting, Manchester, UK.
- Inkelas, S., McAllister Byun, T., & Rose, Y. (2012). Transient constraints and phonological development. Poster presented at the International Child Phonology Conference, Minneapolis, MN.
- McAllister Byun, T., & Hitchcock, E. (2011). Treating /r/ misarticulation: Benefits of computer-based intervention. Talk presented at ASHA 2011, San Diego, CA.
- Klein, H., Grigos, M., & McAllister Byun, T. (2011). Acoustic properties of children's /r/ productions: Impact on listeners' perceptions. Talk presented at ASHA 2011, San Diego, CA.
- McAllister, T. (2011). Patterns of gestural overlap account for positional fricative neutralization in child phonology. Talk presented at the annual conference of the Linguistic Society of America, Pittsburgh, PA.
- McAllister, T. (2010). Evidence for a bidirectional relationship between articulation and perception errors. Poster presented at ASHA 2010, Philadelphia, PA.
- McAllister, T., & Sobeih, M. (2010). Language profiles associated with copy number changes at 16p11.2. Poster presented at the Symposium on Research in Child Language Disorders, Madison, WI.
- McAllister, T. (2010). Convergence and divergence of perception and production in phonological acquisition. Poster presented at the 18th Manchester Phonology Meeting, Manchester, UK.
- McAllister, T. (2010). Child-specific patterns of positional neutralization: Articulatory vs perceptual influences. Talk presented at the GLOW (Generative Linguistics in the Old World) Workshop in Phonetics and Phonology, Wroclaw, Poland.
- McAllister, T. (2010). Phonologization of child-specific articulatory limitations in positional velar fronting. Talk presented at the International Child Phonology Conference, Memphis, TN.
- McAllister, T., Waters, G., Caplan, D., & Bachrach, A. (2008). The unaccusative construction in aphasia. Poster presented at the 38th Clinical Aphasiology Conference, Jackson, WY.
- McAllister, T. (2007). Implicational relations in phonological development. Poster presented at the annual conference of the American Speech-Language Hearing Association, Boston, MA.

INVITED PRESENTATIONS

- Boyce, S., Lowell, S., McAllister, T., & Parham, D. (2018). Theory to practice: Strategies for communicating speech science concepts with clients and students. Invited short course presented at ASHA 2018, Boston, MA.
- McAllister, T. (2018). Understanding the sensorimotor underpinnings of speech to enhance production training. Colloquium, Department of Cognitive Science, Johns Hopkins University, Baltimore, MD.
- McAllister, T. (2017). What can speech development and disorders teach us about articulatory influences on phonology? Colloquium, Department of Linguistics, Wayne State University, Detroit, MI.
- Neel, A., Lowell, S., & McAllister Byun, T. (2017) Acoustic technology for clinical assessment & treatment of speech and voice disorders: A hands-on workshop. Invited short course presented at ASHA

2017, Los Angeles, CA.

- Preston, J., McAllister Byun, T., Hitchcock, E. R., Rusiewicz, H. L., Lee, S. A., Leece, M., Hamilton, S., Rivera-Campos, A., Schmidlin, S., Cleland, J., Wrench, A., & Boyce, S. (2016). Ultrasound biofeedback for speech sound disorders: Hands-on clinical training. Short course presented at the 2016 ASHA Convention, Philadelphia, PA.
- McAllister Byun, T. (2016). Articulatory influences on phonology: Evidence from speech development and disorders. Colloquium, Department of Linguistics, Yale University, New Haven, CT.
- McAllister Byun, T. (2016). Articulatory influences on phonology are synchronic and available throughout the lifespan. Colloquium, Department of Linguistics, Cornell University, Ithaca, NY.
- McAllister Byun, T. (2016). What biofeedback intervention for residual errors can tell us about the nature of speech production. Colloquium, Department of Speech, Language, and Hearing Sciences, University of Connecticut, Storrs, CT.
- Preston, J., McAllister Byun, T., Hitchcock, E. R., Rusiewicz, H. L., Lee, S. A., Leece, M., & Boyce, S. E. (2015). Ultrasound biofeedback for speech sound disorders: Hands-on clinical training. Short course presented at the 2015 ASHA Convention, Denver, CO.
- McAllister Byun, T. (2015). Residual errors, biofeedback, and the architecture of speech production. Colloquium, Department of Speech, Language, and Hearing Sciences, Boston University, Boston, MA.
- McAllister Byun, T. (2014). Articulatory reliability and child-specific phonology. Seminar on Language and Cognition, Columbia University, New York, NY.
- McAllister Byun, T. (2014). Child-specific phonology as a window into the motor-grammar interface. Colloquium, Department of Linguistics at Memorial University, Newfoundland, Canada.
- Preston, J., Hitchcock, E.R., McAllister Byun, T., & Whittle, J. (2014). Ultrasound biofeedback for speech sound disorders: Clinical training for SLPs. Continuing education seminar presented at Haskins Laboratories, New Haven, CT.
- McAllister Byun, T. (2013). Accuracy versus precision in phonological acquisition: The genesis and extinction of child-specific phonological patterns. Talk presented to the Université de Paris 8 Atelier de Phonologie, Paris, France.
- McAllister Byun, T. (2012). Phonologization of performance errors in child consonant harmony. Talk presented to the NYU Linguistics Phonetics and Experimental Phonology Lab, New York, NY.
- McAllister Byun, T. (2012). Perception-production relations in phonological development. Colloquium, Department of Communicative Sciences and Disorders, New York University, New York, NY.
- McAllister Byun, T. (2012). Visual biofeedback intervention for articulation disorder: Methods and issues. Talk presented at the Brain and Behavior laboratory of the Nathan Kline Institute, Orangeburg, NY.
- McAllister Byun, T. (2012). Better talking through technology: Biofeedback intervention for therapy-resistant speech errors. Keynote address delivered at NYC Charter School Special Education Collaborative Professional Development Event, New York, NY.
- McAllister Byun, T. (2012). Preliminary comparison of spectral vs ultrasound biofeedback: Implications for the causes of residual speech errors. Talk presented at Haskins Laboratories, New Haven, CT.
- McAllister Byun, T., & Hitchcock, E. (2011). Targeting therapy-resistant /r/ errors with computer-based intervention. Talk presented at the Department of Communication Sciences and Disorders Continuing Education Seminar Series, Montclair State University, Montclair, NJ.
- McAllister, T. (2010). Children's articulatory limitations shape their grammar: Evidence from a common sound substitution. Talk presented at the Research Colloquium Series of the Department of Communicative Sciences and Disorders, New York University, New York, NY.
- McAllister, T. (2009). Articulatory and perceptual factors in child-specific error processes. Talk presented at Phonology Circle seminar series, Massachusetts Institute of Technology, Cambridge, MA.
- McAllister, T. (2008). Neutralization in strong position in child phonology. Talk presented at UMMM-3 (UMass-MIT Joint Meeting in Phonology), Amherst, MA.
- McAllister, T. (2006). Child consonant harmony: Towards a performance analysis. Talk presented at Phonology Circle seminar series, Massachusetts Institute of Technology, Cambridge, MA.

TEACHING EXPERIENCE

New York University

Undergraduate Honors Research Seminar (Fall 2017)
Doctoral Seminar (Spring 2016, Spring 2018)
Research Colloquium (Spring 2018)
Science of Language (Spring 2014, 2015, 2017)
Critical Evaluation of Research (Fall 2013, 2014, 2017)
Speech Science: Instrumentation (Fall 2012, Fall 2016, Fall 2018)

Montclair State University

Phonological and Articulation Disorders (Spring 2010, 2011, 2012)
Phonetic Study of Speech Sounds (Fall 2009, 2010, 2011)
Neurophysiological Bases of Communication (Fall 2009, 2010, 2011; Spring 2010, 2011, 2012)
Speech and Hearing Science (Fall 2009, 2010, 2011; Spring 2010, 2011, 2012)

Massachusetts Institute of Technology (Teaching Assistant)

Introduction to Linguistics

Boston University (Teaching Assistant)

Neural Bases of Cognition and Language

PROFESSIONAL SERVICE

Editorships and Reviewing Activities

Invited guest editor: *Seminars in Speech and Language* (2014-2015); *International Journal of Speech-Language Pathology* (2017); *Journal of Speech, Language, and Hearing Research* (2018)

Ad-hoc journal review: *American Journal of Speech-Language Pathology*; *Assessment for Effective Intervention*; *Clinical Linguistics and Phonetics*; *First Language*; *Folia Phoniatica et Logopaedica*; *International Journal of Child-Computer Interaction*; *International Journal of Language and Communication Disorders*; *International Journal of Speech-Language Pathology*; *Journal of the Acoustical Society of America*; *Journal of Communication Disorders*; *Journal of Child Language*; *Journal of Memory and Language*; *Journal of Phonetics*; *Journal of Speech, Language, and Hearing Research*; *Language Acquisition*; *Language and Speech*; *Language, Speech, and Hearing Services in Schools*; *Lingua*; *Linguistic Inquiry*; *Perceptual and Motor Skills*; *PLoS ONE*; *Probus Journal of Romance Linguistics*

Manuscript review: MIT Press

Invited grant review: National Science Foundation (2015); University of Wisconsin Research Growth Initiative (2015); Steinhardt Student Challenge Grants (2014); ASH Foundation Clinical Research, New Century Scholars, and New Investigators Grants (2013); ASHA Students Preparing for Academic and Research Career Award Grants (2013)

Abstract review: Speech Motor Control Conference (2017); Annual Meeting on Phonology (2017); Laboratory Phonology (2016); ASHA (2016, 2018, 2019); Conference on Behavioral Economics Workshop on Crowdsourcing (2015); Linguistic Society of America annual meeting (2013)

Steinhardt

Member, Committee on Courses and Programs (Fall 2012-Spring 2017)

Department of Communicative Sciences and Disorders

Chair, Search committee, New clinical faculty line (Fall 2017, Fall 2018)

Member, Curriculum Committee (Fall 2012-Spring 2016); Chair (2014)

Chair, Student Progress Committee (2017-present)

Member, Admissions Committee (Fall 2012, Fall 2018-present)

Member, Doctoral Committee (Fall 2012-present)

American Speech-Language Hearing Association

Chair, Speech Sound Disorders in Children Topic Area, ASHA 2015 Convention Program Committee

Professional memberships

American Speech-Language Hearing Association

Linguistic Society of America

Acoustical Society of America