

HEATHER MICHELLE KABAKOFF

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EDUCATION

Ph.D., Communicative Sciences and Disorders, New York University (NYU), 2021
M.S., Speech and Language Pathology (Bilingual), Teachers College, Columbia University, 2011
B.S., Linguistics, Reed College, 2005

GRANT SUPPORT

National Institutes of Health (NIDCD), Principal Investigator, "Establishing the Role of Sensorimotor Skills in Speech Development and Disorders" (F31DC018197-01). Funded 9/1/19 to 8/31/21.

AWARDS AND HONORS

2018 ASHFoundation New Century Scholars Doctoral Scholarship
2018 Acoustical Society of America Stetson Scholarship
2017 NYSSLHA Doctoral Student Scholarship
2016 Acoustical Society of America Travel Award
2015 ASHA Student Research Travel Award
2014 ASHFoundation Graduate Student Scholarship
2010 Buffalo State Consortium Scholarship

PROFESSIONAL LICENSURE

- Certificate of Clinical Competence in Speech-Language Pathology, *American Speech-Language-Hearing Association (2012-current)*
- Licensure in Speech-Language Pathology, *New York State (2012-current)*
- Teacher of Students with Speech Language Disabilities (*Professional, Bilingual Extension*) *New York State Department of Education (2011-current)*

RESEARCH LAB AFFILIATIONS

2021- Flinker Speech Electrocoricography Lab, NYU Langone Medical Center
2013-21 Biofeedback Intervention Technology for Speech (BITS) Lab, NYU
2018-19 Speech Production Acoustics and Perception Laboratory, Graduate Center, CUNY
2016-19 Acoustic Phonetics and Perception Lab (APPL), NYU
2008-9 Language Learning and Bilingualism Lab, UT Austin

EMPLOYMENT

- 2021- *Postdoctoral Research Fellow*, Comprehensive Epilepsy Center, Department of Neurology, NYU Grossman School of Medicine
- 2019-21 *Research Clinician*, NYU PRIISM (Center for Practice and Research at the Intersection of Information, Society, and Methodology)
- 2016-21 *Adjunct Instructor*, NYU Communicative Sciences and Disorders Department
- 2020 *School-based Speech/Language Pathologist (Teletherapy)*, City Sounds NY
- 2019 *Independent Provider*, New York City Department of Education
- 2018-19 *Research Clinician*, Research Foundation of the City University of New York
- 2016-18 *Adjunct Clinical Supervisor*, NYU Speech-Language-Hearing Clinic
- 2013-18 *Research Clinician*, Biofeedback Intervention Technology for Speech (BITS) Lab, NYU
- 2013-14 *Speech and Language Pathologist*, Auditory Processing Center at the Center for Hearing and Communication
- 2013-14 *Speech and Language Pathologist*, The Lang School
- 2011-13 *Clinical Fellow, Speech/Language Pathologist*, DREAM Charter School

PEER-REVIEWED PUBLICATIONS

- Kabakoff, H.**, Harel, D., Tiede, M., Whalen, D.H., & McAllister, T. (2021). Extending ultrasound tongue shape complexity measures to speech development and disorders. *Journal of Speech, Language, and Hearing Research*, 64(7), 2557-2574. https://doi.org/10.1044/2021_JSLHR-20-00537.
- Kabakoff, H.**, Kharlamenko, J., Levy, E.S., & Levi, S.V. (2021). Differences in perceptual assimilation following training. *JASA Express Letters*, 4(1), 1-7. <https://doi.org/10.1121/10.0003863>.
- Gritsyk, O., **Kabakoff, H.**, Li, J.J., Ayala, S., Shiller, D.M. & McAllister, T. (2021). Toward an index of oral somatosensory acuity: Comparison of three measures in adults. *Perspectives of the ASHA Special Interest Groups*, 1-13. https://doi.org/10.1044/2021_PERSP-20-00218.
- Cialdella, L., **Kabakoff, H.**, Preston, J.L., Dugan, S.H., Spencer, S., Boyce, S., Tiede, M., Whalen, D.H., & McAllister, T. (2021). Auditory-perceptual acuity in rhotic misarticulation: baseline characteristics and treatment response. *Clinical Linguistics & Phonetics*, 35(1), 19-42. <https://doi.org/10.1080/02699206.2020.1739749>.
- Kabakoff, H.**, Go, G., and Levi, S.V. (2020). Training a non-native vowel contrast with a distributional learning paradigm results in improved perception and production. *Journal of Phonetics*, 78, 1-17. <https://doi.org/10.1016/j.wocn.2019.100940>.
- Campbell, H.**, & McAllister Byun, T. (2018). Deriving individualized /r/ targets from the acoustics of children's non-rhotic vowels. *Clinical Linguistics & Phonetics*, 32(1), 70-87. <http://dx.doi.org/10.1080/02699206.2017.1330898>.

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* [special issue: Bringing Advanced Speech Processing Technology to the Clinical Management of Speech Disorders], 20(6), 635-643. <http://doi.org/10.1080/17549507.2017.1359334>.

McAllister Byun, T., **Campbell, H.**, Carey, 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(6S), 1810-1817. https://doi.org/10.1044/2017_JSLHR-S-16-0248.

McAllister Byun, T., & **Campbell, H.** (2016). Differential effects of visual-acoustic biofeedback intervention for residual speech errors. *Frontiers in Human Neuroscience* [special issue: Technology & Communication Deficits: Latest Advancements in Diagnosis and Rehabilitation], 10(567), 1-17. <http://doi.org/10.3389/fnhum.2016.00567>.

TEACHING EXPERIENCE

Full Courses

Adjunct Instructor, Phonetics, NYU online (master's, Spring 2021)

Adjunct Instructor, Clinical Methods in Communicative Sciences & Disorders, NYU (undergraduate, Fall 2019, 2020)

Adjunct Instructor, Acoustic Phonetics, NYU (undergraduate, Spring 2020)

Adjunct Instructor, Speech Science Instrumentation, NYU online (master's, Spring/Summer 2019)

Adjunct Instructor, Speech Sound Disorders in Children, NYU (master's, Fall 2017-18)

Teaching Assistant and Recitation Instructor, Science of Language, NYU, Dr. Adam Buchwald (Fall 2016) & Dr. Tara McAllister (undergraduate, Spring 2017, 2019)

Teaching Assistant, Language Disorders in Children, Teachers College, Columbia University, Dr. Erika Levy (master's, Fall 2010)

Invited Talks

"Clinical Use of Ultrasound" (*training*)

- UltraFest IX, Master Class Series, Indiana University (Bloomington, IN, Fall 2020)

"Professional Development Session: Applying to a F31 Grant" (*panel*)

- NYU, Department of Communicative Sciences and Disorders (New York, NY, Spring, 2021)
- NYU, Department of Biostatistics, School of Global Public Health (New York, NY, Fall, 2020)

"Biofeedback for Treatment-Resistant Speech Errors" (*guest lecture*)

- UCLA, Introduction to Applied Phonetics (undergraduate, Summer 2020)

"Optimization of Biofeedback Treatment for Speech Sound Disorder" (*research talk*)

- Adelphi University Manhattan Center, Spring Lecture Series, Communication Sciences and Disorders (master's, 2019)

"Technology-Enhanced Approaches to Speech Sound Intervention" (*guest lecture*)

- Columbia University, Speech and Hearing Science (master's, three times 2017-18) "Bilingual

- Speech and Language Pathology in Public Schools” (*guest lecture*)
- NYU, Language Disorders in Children (undergraduate, Spring 2016)
- “Target Selection in App-based Intervention for Speech Sound Disorder” (*guest lecture*)
- Columbia University, Speech and Hearing Science (master’s, Spring 2016)
 - Montclair State University, Speech and Hearing Science (master’s, Fall 2015)
- “Technology in Intervention for Speech Sound Disorders” (*guest lecture*)
- PACE University, Intro Communication Disorders (undergraduate, Spring 2015-16)

PUBLISHED ABSTRACTS

- Gritsyk, O., **Kabakoff, H.**, Li, J.J., Ayala, S., Shiller, D. & McAllister, T. (2020). Establishing an index of somatosensory acuity: comparison of three measures in adults. *The Journal of the Acoustical Society of America*, 148(4), 2811. <https://doi.org/10.1121/1.5147835>
- Kabakoff, H.**, Feeny, G.T., Tiede, M., Preston, J.L., & McAllister, T. (2019). Detecting changes in lingual differentiation over the course of speech sound intervention. *The Journal of the Acoustical Society of America*, 145(3), 1796. <https://doi.org/10.1121/1.5101573>
- Kharlamenko, J., **Kabakoff, H.**, Levy, E., & Levi, S.V. (2019). Changes to perceptual assimilation following training. *The Journal of the Acoustical Society of America*, 145(3), 1827. <https://doi.org/10.1121/1.5101678>
- Campbell, H.**, Cialdella, L., & McAllister, T. (2018). Perception-production relations in residual speech errors before and after biofeedback training. *The Journal of the Acoustical Society of America*, 144(3), 1966. <http://doi.org/10.1121/1.5068591>
- Campbell, H.**, Harel, D., Hitchcock, E., & McAllister Byun, T. (2017). Selecting an acoustic correlate for automated measurement of /r/ production in children. *The Journal of the Acoustical Society of America*, 141, 3572. <http://doi.org/10.1121/1.4987592>

PRESENTATIONS

- Eads, A., **Kabakoff, H.**, Boyce, S., Preston, J.L., Whalen, D.H., McAllister, T. (November 18, 2021). Stimulability as a predictor of treatment response in an ultrasound biofeedback study of rhotic misarticulation. Poster to be presented at the *American Speech-Language Hearing Association Convention*. Washington, D.C.
- Eads, A., **Kabakoff, H.**, Boyce, S., Preston, J.L., Whalen, D.H., McAllister, T. (June 18, 2021). Stimulability as a predictor of treatment response in an ultrasound biofeedback study of rhotic misarticulation. Poster presented at the *Boston Speech Motor Control Symposium*. Online.
- Kabakoff, H.**, Gritsyk, O., Li, J.J., Ayala, S., Hitchcock, E.R., Preston, J.L., Harel, D., Shiller, D.M., & McAllister, T. (December 15, 2020) Tracking development of somatosensory acuity: Age-based comparison of three measures. *Poster presented at the 12th International Seminar on Speech Production*. Online.

- Kabakoff, H.**, Feeny, G.T., Harel, D., Tiede, M., Preston, J.L., Whalen, D.H., & McAllister T. (December 15, 2020). Characterizing sensorimotor profiles in children with residual speech errors. *Poster presented at the 12th International Seminar on Speech Production*. Online.
- Gritsyk, O., **Kabakoff, H.**, Li, J.J., Ayala, S., Shiller, D. & McAllister, T. (December 11, 2020). Establishing an index of somatosensory acuity: comparison of three measures in adults. *Poster presented at the 179th Meeting of the Acoustical Society of America*. Online.
- Kabakoff, H.**, McAllister, T., Whalen, D.H., & Tiede, M. (October 22, 2020). Improving children's ultrasound-based tongue complexity measures by quantifying midsagittal alignment. *Talk presented at UltraFest IX*. Online.
- McAllister, T., Preston, J.L., **Kabakoff, H.**, Boyce, S., Whalen, D.H. (November, 2020). Who Responds to Ultrasound Biofeedback Treatment for Rhotic Misarticulation? Proposal accepted at *the American Speech-Language Hearing Association Convention*. San Diego, California. (Convention cancelled).
- Feeny, G.T., **Kabakoff, H.**, Phillips, E., Tiede, M., Preston, J.L. & McAllister, T. (June 21, 2019). Longitudinal emergence of perception, production, and motor skills in preschoolers. *Poster presented at the Boston Speech Motor Control Symposium*. Boston, MA.
- Feeny, G.T., **Kabakoff, H.**, Phillips, E., Tiede, M., Preston, J.L., & McAllister, T. (June 15, 2019). Motor and perceptual precursors of speech production: A longitudinal study. *Talk presented at the International Child Phonology Conference*. Montréal, Québec, 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.
- Kharlamenko, J., **Kabakoff, H.**, Levy, E.S., & Levi, S.V. (May 15, 2019). Changes to perceptual assimilation following training. *Poster presented at the 177th Meeting of the Acoustical Society of America*. Louisville, KY.
- Cialdella, L., **Kabakoff, H.**, Preminger, K., & McAllister, T. (November 16, 2018). Perceptual characteristics of children with rhotic misarticulation. *Poster presented at the American Speech-Language Hearing Association Convention*. Boston, Massachusetts.
- Kabakoff, H.**, McAllister, T., Preston, J.L., Tiede, M., & Whalen, D.H. (November 15, 2018). Identifying individualized sensorimotor predictors of response to ultrasound treatment. *Poster presented at the American Speech-Language Hearing Association Convention*. Boston, Massachusetts.
- Campbell, H.**, Cialdella, L., & McAllister, T. (November 9, 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, BC, Canada.
- McCabe, C., **Campbell, H.**, Harel, D., & McAllister, T. (June 20, 2018). Clinical evidence for the representational status of American English rhotic allophones. *Poster presented at LabPhon16*. Lisbon, Portugal.

- Go, G., **Campbell, H.**, & Levi, S.V. (May 10, 2018). The effect of distributional training on the production of non-native vowel contrasts. *Poster presented at the 175th Meeting of the Acoustical Society of America*. Minneapolis, Minnesota.
- Campbell, H.**, Go, G., and Levi, S.V. (February 24, 2018). *A perceptual learning paradigm to support production of a non-native vowel contrast*. Poster presented at the Conference on Motor Speech. Savannah, GA.
- Campbell, H.**, Whalen, D.H., and McAllister, T. (February 22, 2018). *Extending lingual complexity measures to speech development and disorders*. Poster presented at the Conference on Motor Speech. Savannah, GA.
- Campbell, H.**, Whalen, D.H., and McAllister, T. (September 6, 2017). *Quantifying complexity of children's tongue contours using ultrasound imaging*. Poster presented at the "Workshop on Speech Disorders" at the Annual Meeting on Phonology. New York, NY.
- Campbell, H.**, Harel, D., Hitchcock, E., & McAllister Byun, T. (June 26, 2017). *Selecting an acoustic correlate for automated measurement of /r/ production in children*. Talk presented at the special session "Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical and Physiological Collaborations" at the 173rd meeting of the Acoustical Society of America. Boston, MA.
- Campbell, H.**, & McAllister Byun, T. (June 1, 2017). *Selecting a metric for quantifying preschoolers' tongue shape complexity using ultrasound imaging*. Talk presented at the International Child Phonology Conference. Washington, D.C.
- Campbell, H.**, & McAllister Byun, T. (April 21, 2017). *App-Delivered Biofeedback for Speech Intervention: Pilot Testing and Development*. Poster presented at the New York State Speech-Language-Hearing Association Convention. Saratoga Springs, NY.
- Campbell, H.**, & McAllister Byun, T. (March 31, 2017). *Selecting a metric for quantifying preschoolers' tongue shape complexity using ultrasound imaging*. Poster presented at the Boston Speech Motor Control Mini-Symposium. Boston, MA.
- McAllister Byun, T., **Campbell, H.** (November 18, 2016). *Visual-Acoustic Biofeedback for Residual /r/ Errors: Synthesis of Research & Implications for Practice*. Talk presented at the American Speech-Language Hearing Association Convention. Philadelphia, PA.
- McAllister Byun, T., **Campbell, H.**, Carey, H., Forsyth, J., Liang, W., Park, T., Sanders, T., Steklov, N. & Svirsky, M. (March 3, 2016). *Enhancing speech intervention through app-delivered biofeedback: Pilot testing*. Talk presented at the special session "Cutting-edge technology for speech rehabilitation" at the Motor Speech Conference. Newport Beach, CA.
- Campbell, H.**, & McAllister Byun, T. (November 12, 2015). *Individualized targets for acoustic biofeedback to treat residual /r/ errors*. Poster presented at the American Speech-Language Hearing Association Convention. Denver, CO.
- Crowley, C., Baigorri, M., Gold, D., Henry, A., Inniss, M., Torres, J., **Campbell, H.**, et al., (November 19, 2010). *Developing sustainability through student clinical experiences: five years in Bolivia*. Poster presented at the annual conference of the American Speech-Language-Hearing Association. Philadelphia, PA.

INTERNAL AWARDS

2019 Doctoral Research and Travel Grant (Steinhardt)
2018-19 Doctoral Students' Individual Research Fund (CSD department)
2018 Student Senators Council Conference Fund: Conference on Motor Speech
2017-18 Phyllis Tureen Fellowship (CSD department)
2016 Doctoral Student Travel Fund: Conference on Motor Speech (Steinhardt)
2009 Teachers College General and Biobehavioral Sciences Dept Scholarships

MENTORING PROGRAMS

2018-19 American Speech-Language-Hearing Association Pathways Program (mentor: Dr. Yana Yunusova)
2017-19 Acoustical Society of America Students Meet Members for Lunch (mentors: Dr. Chao-Yang Lee; Dr. William Katz; Dr. Anders Löfqvist)
2016-17 American Speech-Language-Hearing Association Mentoring Academic-Research Careers (MARC) Program (mentor: Dr. Ramesh Kaipa)

REVIEWING ACTIVITY

2018,20 Ad-hoc journal reviews (2), *Clin. Ling. Phonet.*
2019 Ad-hoc journal review assist, *PLOS One.*
2019 Guest editor assist, *J. Speech Lang. Hear. Res.*
2016 Ad-hoc journal review assists (2), *J. Speech Lang. Hear. Res.*
2015 Ad-hoc journal review assist, *Am. J. Speech Lang. Pathol.*

PROFESSIONAL AFFILIATIONS

- Member, ASHA Special Interest Group 18, Telepractice, (2018-current)
- Member, ASHA Special Interest Group 19, Speech Science, (2018-current)
- Member, Acoustical Society of America (2016-current)
- Member, Association for Laboratory Phonology (2016-current)
- Member, New York State Speech-Language-Hearing Association (2016-current)
- Sounds in Motion Training (2012)
- Lee Silverman Voice Technique Certification (2010)

LANGUAGES , SKILLS, WORKSHOPS

- Languages: Fluent Advanced Professional Level in Spanish, experienced with Mandarin, Ancient Greek, and Basque
- Programs for speech processing and analysis: Proficient in Praat, Phon (*The PhonBank Project*), E-Prime, and the Computerized Speech Lab (CSL)
- Programs for statistical computing and graphics: Fluent in R, proficient in SPSS and STATA, and experienced with MATLAB
- Completed workshop: OpEd Project "Write to Change the World" public workshop (2020)