

## HEATHER MICHELLE CAMPBELL

New York University  
Department of Communicative Sciences and Disorders  
665 Broadway, 9th floor  
New York, New York 10012

212.998.5230 / [heather.campbell@nyu.edu](mailto:heather.campbell@nyu.edu)

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### EDUCATION

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#### **New York University, New York, NY**

Doctoral Student in Communicative Sciences and Disorders (2014-current)

COURSES COMPLETED: Statistics I, Speech Science Instrumentation, Developing Assistive Technologies, Statistics II, Perception and Production of Speech, Lexical Retrieval for Language Production, Statistics III, Seminal Readings, Multi-Level Modeling: Nested Data/Longitudinal Data, Educational Data Science Practicum, Acoustic Phonetics (*audit*), Neurolinguistics, Seminar in Speech Production, Statistical Analysis in Linguistics

#### **Teachers College, Columbia University, New York, NY**

Master of Science 2011 in Speech and Language Pathology

- Speech pathology courses at the University of Texas at Austin, *Austin, TX* 2008

#### **Reed College, Portland, OR**

Bachelor of Arts in Linguistics 2005

- Semester as exchange student at the *Universidad de La Rioja, Logroño, Spain* 2003-4
- Courses at Linguistics Society of America Summer Institute, *East Lansing, MI* 2003

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### RESEARCH INTERESTS

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- Acoustic properties of /r/ in children with typical development, in children with /r/ misarticulations, and in children with remediated /r/
- Perceptual training for individuals with perceptual deficits related to residual speech errors or with perceptual differences related to second language acquisition
- Perception and production relations in Spanish-English bilingual children with typical development and with speech sound disorders

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### RESEARCH EXPERIENCE AND PROJECTS

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2016-current     *Assistant Research Scientist*, Acoustic Phonetics and Perception Lab, New York University

2013-current     *Clinician and Assistant Research Scientist*, Biofeedback Intervention for Speech Lab, New York University

2008-2009        *Research Assistant*, Language Learning and Bilingualism Lab, University of Texas at Austin

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## TEACHING EXPERIENCE

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### Interests

Science of Language, Speech Science: Instrumentation, Phonetic Study of Speech Sounds, Phonological Articulation Disorders, Bilingual Language Disorders

### Full Courses

*Instructor*, Speech Sound Disorders in Children, New York University (Fall 2017)

*Teacher Assistant and Recitation Instructor*, Science of Language, New York University, Dr. Adam Buchwald (Fall 2016) & Dr. Tara McAllister (Spring 2017)

*Teacher Assistant*, Language Disorders in Children Course, Teachers College, Columbia University, Dr. Erika Levy (Fall 2010)

### Invited Lectures

*Technology-Enhanced Approaches to Speech Sound Intervention*

- Teachers College, Columbia University, masters level, Speech and Hearing Science (Spring 2017)

*Bilingual Speech and Language Pathology in Public Schools*

- New York University, undergraduate level, Language Disorders in Children (Spring 2016)

*Target Selection in App-based Intervention for Speech-sound Disorders*

- Teachers College, Columbia University, masters level, Speech and Hearing Science (Spring 2016)
- Montclair State University, masters level, Speech and Hearing Science (Fall 2015)

*Technology in Intervention for Speech Sound Disorders*

- PACE University, undergraduate level, Intro to Communication Disorders (Spring 2015, Spring 2016)

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## PRESENTATIONS

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**Campbell, H.**, McAllister, T., & Whalen, D. (September 2017). *Quantifying complexity of children's tongue contours using ultrasound imaging*. Poster submitted for presentation at the "Workshop on Speech Disorders" at the Annual Meeting on Phonology. New York, NY.

**Campbell, H.**, Harel, D., & McAllister Byun, T. (2017). *Selecting an acoustic correlate for automated measurement of /r/ production in children*. Talk to be 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. (May 2017). *Selecting a metric for quantifying preschoolers' tongue shape complexity using ultrasound imaging*. Talk to be 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. (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.** (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. (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. (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., (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.

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#### PUBLICATIONS

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- McAllister Byun, T., & **Campbell, H.** (2016). Differential effects of visual-acoustic biofeedback intervention for residual speech errors. [Technology & Communication Deficits: Latest Advancements in Diagnosis and Rehabilitation]. *Frontiers in Human Neuroscience*, 10(567), 1-17.

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#### MANUSCRIPTS IN PREPARATION

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- McAllister Byun, T., **Campbell, H.**, Liang, W., Park, T. H., & Svirsky, M. (in press). Enhancing intervention for residual rhotic errors via app-delivered biofeedback: A case study. *Journal of Speech, Language, and Hearing Research*.
- Campbell, H.**, Harel, D., & McAllister Byun, T. (in press). *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].

**Campbell, H.**, & McAllister Byun, T. (in press). *Deriving individualized /r/ targets from the acoustics of children's non-rhotic vowels. Clinical Linguistics and Phonetics.*

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#### AWARDS AND HONORS

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- 2017 New York State Speech-Language-Hearing Association Doctoral Student Scholarship
- 2016 Acoustical Society of America Travel Award
- 2016 American Speech-Language Hearing Association Mentoring Academic-Research Careers (MARC) Program
- 2016 Steinhardt Doctoral Student Travel Fund: Motor Speech Conference
- 2015 American Speech-Language Hearing Association Student Research Travel Award, *American Speech-Language-Hearing Association (ASHA) Convention*
- 2014 American Speech-Language-Hearing Foundation Graduate Student Scholarship
- 2010 Buffalo State Consortium Scholarship
- 2009 Teachers College General Scholarship and Biobehavioral Sciences Departmental Scholarship

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#### EMPLOYMENT

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- 2016 *Adjunct Clinical Supervisor, NYU Speech-Language-Hearing Clinic*
- 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, Bilingual Speech and Language Pathologist, DREAM Charter Elementary and Middle School*

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#### REVIEWING ACTIVITY

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- 2016 Two ad-hoc journal reviews, *Journal of Speech, Language, and Hearing Research* (assisted)
- 2015 Ad-hoc journal review, *American Journal of Speech-Language Pathology* (assisted)

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## LICENSURE, CERTIFICATIONS, AND AFFILIATIONS

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- Certificate of Clinical Competence, American Speech-Language-Hearing Association (*2012-current*)
- Teacher of Students with Speech Language Disabilities, Bilingual Extension *New York State Department of Education (2012-current)*
- Member of the Acoustical Society of America, LabPhon, New York State Speech-Language-Hearing Association (*2016-current*)
- Sounds in Motion Training (*2012*)
- Lee Silverman Voice Technique Certification (*2010*)

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## LANGUAGES AND SKILLS

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- Fluent Advanced Professional Level in Spanish, also studied Mandarin, Ancient Greek, and Basque
- Proficiency in E-Prime and Computerized Speech Lab (CSL)
- Proficiency in R, SPSS, and STATA programs for statistical computing and graphics