Hung-Shao Cheng

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Education

Postdoc Researcher at Speech Motor Neuroscience Group   2023-

University of Wisconsin-Madison, Madison, WI

Ph.D. in Communicative Sciences and Disorders   2017-2023
New York University, New York, NY

M.A. in Linguistics & Cognitive Science   2017
University of Delaware, Newark, DE

B.A. in Foreign Languages and Literature   2015
Tunghai University, Taichung, Taiwan

Publications (* denotes co-first author)

Levi, S., Baese-Berk, M., Theodore, R., Goudelias, D., & **Cheng, H-S.** (accepted). *A rose by any other name may be a different vocabulary item: Examining the relationship between multiple tests of receptive vocabulary for online studies*. Journal of Speech, Language, and Hearing Research.

Buchwald, A., & **Cheng, H-S.** (2023). *Factors affecting non-native consonant cluster learning*. Journal of Speech, Language, and Hearing Research, https://doi.org/10.1044/2022_JSLHR-22-00322

Cheng, H-S., Niziolek A. C., Buchwald, A., & McAllister T. (2021). *Examining the relationship between speech perception, production distinctness, and production variability*. Frontiers in Human Neuroscience, 15, 660948. https://doi.org/10.3389/fnhum.2021.660948.

Cheng, H-S., & Buchwald, A. (2021). *Does voicing affect patterns of transfer in non-native cluster learning?*. Journal of Speech, Language, and Hearing Research, 64(6S), 2103–20. https://doi.org/10.1044/2021_JSLHR-20-00240.

Presentations (* denotes co-first author)

Masapollo, M*., **Cheng, H-S*.,** Hagedorn, C., & Buchwald, A. (2022). *Native and non-native onset-vowel organization: an electromagnetic articulography study*. Poster presented at ASHA annual convention, New Orleans, LA., Nov, 17-19.

Cheng, H-S., & Buchwald, A. (2022). *Examining individual predictors of transfer of learning in non-native consonant cluster learning*. Poster presented at 2022 Motor speech conference, Charleston, SC. Feb, 17-20th.

Buchwald, A., & **Cheng, H-S.** (2022). *Non-native consonant cluster learning: At the interface of phonology and speech motor control*. Talk presented at 2022 Motor speech conference, Charleston, SC. Feb, 17-20th.

Cheng, H-S*., Masapollo, M*., Hagedorn, C., & Buchwald, A. (2021). *Effects of phonotactic legality on gestural coordination in consonant clusters: an electromagnetic articulography study*. Poster presented at the 181th Acoustical Society of America meeting, Seattle, WA. Nov, 29 - Dec, 3rd

Cheng, H-S*., Masapollo, M*., Hagedorn, C., & Buchwald, A. (2020). *Gestural coordination in non-native onset clusters: An electromagnetic articulography study*. Poster presented at the 12th International Seminar on Speech Production, held virtually, Dec, 14-17th

Buchwald, A., Repetti-Ludlow, C., & **Cheng, H-S.** (2020). *Anodal tDCS targeting left premotor/motor cortices enhances speech motor learning*. Talk presented at 2020 Motor speech conference, Santa Barbara, CA. Feb, 20-23rd.

Cheng, H-S., Niziolek, C., Buchwald, A., & McAllister, T. (2020). *The relationship between production variability and perceptual acuity in explicit sensorimotor learning for speech*. Poster presented at 2020 Motor speech conference, Santa Barbara, CA. Feb, 20-23rd.

Cheng, H-S., Grzebyk, I., & Buchwald, A. (2020). *Is voicing encoded in speech motor representations? Evidence from transfer of learning*. Poster presented at 2020 Motor speech conference, Santa Barbara, CA. Feb, 20-23rd.

Cheng, H-S., & Buchwald, A. (2019). *The nature of learned speech motor representations: Evidence from the transfer of learning*. Talk presented at 2019 Boston Speech Motor Control Symposium, Boston, MA. June, 21st.

Cheng, H-S., & Buchwald, A. (2019). *Transfer in speech motor learning: the role of voicing*. Poster presented at the 177th Acoustical Society of America meeting, Louisville, KY, May 13-17.

Abu El Adas, S*., & **Cheng, H-S*.,** (2019). *Acoustic characterization of phonemic and allophonic glottal stops in Levantine Arabic*. Poster presented at The 93rd Annual Meeting of the Linguistic Society of America, NYC, NY, January 3-6.

Cheng, H-S., & Buchwald, A. (2018). *Generalization in speech motor learning: the case of voicing*. Poster presented at ASHA Annual Convention, Boston, MA, November 15-17.

Cheng, H-S. (2017). *A prosodic analysis of Infixation: the case of Southern Paiwan*. Poster presented at the 24th meeting of the Austronesian Formal Linguistics Association, Seattle, WA.

Invited talks

Cheng, H-S. (2022). *Non-native cluster learning: representations, perceptual contributions and individual differences*. Talk presented virtually at the University of Minnesota, Department of Speech-Language-Hearing Sciences, Professional Seminar, April, 15th.

Awards & Honors

Dissertation finishing award (total costs: $10,000)   2022

- NYU School of Culture, Education, and Human Development

Raymond H. Stetson Scholarship in Phonetics and Speech Production (honorable mention)   2022

- Acoustical Society of America

CAPCSD Ph.D. Scholarship (total costs: $20,000)   2022

- Council of Academic Programs in Communication Sciences and Disorders

Doctoral Research and Travel grant (total costs: $1500)   2022

- NYU School of Culture, Education, and Human Development

Best student presentation competition (honorable mention)   2021

- *Effects of phonotactic legality on gestural coordination in consonant clusters: an electromagnetic articulography study*, 181th Acoustical Society of America meeting, Seattle, WA.

Summer research funding (total costs: $4000)   2016

- Department of Linguistics and Cognitive Science, University of Delaware

Competitive student scholarship (total costs: full tuition waiver)   2016

- Department of Linguistics and Cognitive Science, University of Delaware

Teaching Experience

New York University

Instructor

- CSCD-GE 2125 – Speech Science: Instrumentation (residential program)   Fall 2021
- CSCD-GE 2125 – Speech Science: Instrumentation (online program)   Summer 2021

Teaching Assistant

- CSCD-UE 110 – Science of Language   Spring 2021
- CSCD-UE 110 – Science of Language   Fall 2020
- CSCD-UE 110 – Science of Language   Spring 2020
- CSCD-UE 110 – Science of Language   Fall 2019

Employment

Senior Student Mentor   2022 - 2023

Department of Communicative Sciences and Disorders, New York University.

Experiment programmer   2020 - 2023

Acoustic Phonetics and Perception Lab (PI: Dr. Susannah V. Levi)

Department of Communicative Sciences and Disorders, New York University.

Research assistant   2020 - 2023

The Psycholinguistics, Aphasia and Neuromodulation Lab (PI: Dr. Adam Buchwald)

Department of Communicative Sciences and Disorders, New York University.

Relevant Skills

- **Statistical programs**: R + R Studio, Stata
- **Other tools**: Praat, Audapter (running altered auditory feedback studies), PsychoPy (including online experiments), Matlab, Python, Gorilla online experiment platform
- **Languages**: Taiwan Mandarin (native), American English (fluent), Taiwanese (heritage)