

Chiung-Yu Chang

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EDUCATION

University of Massachusetts Amherst (UMass)	United States
<i>PhD in Cognition and Cognitive Neuroscience</i>	Sep. 2022 - Present
National Tsing Hua University (NTHU)	Hsinchu, Taiwan
<i>MA in Linguistics</i>	Sep. 2016 - Feb. 2020
Thesis: Neural responses to syllable gaps in Taiwanese Mandarin: an event-related potential study	
<i>BS in Interdisciplinary Program of Life Sciences</i>	Sep. 2012 - Jul. 2016
<i>with specialties in Life Science & Foreign Languages and Literature</i>	

PUBLICATIONS

- Chang, C.-Y.** & L. D. Sanders (2026). Phonetic cue weighting as auditory feature-based selective attention. *Psychonomic Bulletin & Review*, 33(1), 43. DOI: 10.3758/s13423-025-02834-y
- Chang, C.-Y.** & L. D. Sanders (2025). Testing the roles of post-consonantal F0 perturbation and noise in tonogenesis. *Proceedings of the Sixtieth Annual Meeting of the Chicago Linguistic Society*, 97-111.
- Chang, C.-Y.** & F.-F. Hsieh (2022). Do subsyllabic units play a role in Mandarin spoken word recognition? Evidence from phonotactic processing. *Journal of Neurolinguistics*, 64, 101089. DOI: 10.1016/j.jneuroling.2022.101089
- Chang, C.-Y.** & F.-F. Hsieh (2020). Tone-consonant co-occurrence probability in Mandarin. *Proceedings of ExLing 2020*, 69-72. DOI: 10.36505/ExLing-2020/11/0017/000432

MANUSCRIPTS

- Chang, C.-Y.** (resubmitted). How reliable is adult statistical learning? A critical review of literature since Saffran, Newport, and Aslin (1996).
- Chang, C.-Y.** & F.-F. Hsieh (in preparation). Probabilistic consonant-tone interaction in Mandarin Chinese is not generalizable to nonce words.

CONFERENCE PRESENTATIONS

- Chang, C.-Y.** & L. D. Sanders (2025). Decoding phonetic cue weighting from electroencephalography responses to naturalistic speech. Poster presented at *the Society for the Neurobiology of Language 17th Annual Meeting*, September 12-14, Washington DC, United States.
- Chang, C.-Y.**, L. D. Sanders (2025). The relationship between musical experience and cue reweighting in speech perception. Poster presented at the *2025 Annual Meeting of the Cognitive Science Society*, July 30 - August 2, San Francisco, United States.
- Chang, C.-Y.**, A. Jesse, L. D. Sanders (2025). Do listeners access abstract morphological representations while processing speech? A representational similarity analysis of event-related potentials. Poster presented at the *32th Annual Meeting of the Cognitive Neuroscience Society*,

March 29 - April 1, Boston, United States.

- Chang, C.-Y.,** L. D. Sanders (2025). Decoding phonetic cue weighting from EEG: a representational similarity approach. Poster presented at the *2025 Annual Meeting of Taiwan Society of Cognitive Neuroscience*, January 11, Taoyuan, Taiwan.
- Chang, C.-Y.,** L. D. Sanders (2024). On the temporal aspect of post-consonantal fundamental frequency perturbation in English voicing perception. Talk given at the *187th Meeting of the Acoustical Society of America*, April 18 - 22, Virtual meeting.
- Chang, C.-Y.,** A. Jesse, L. D. Sanders (2023). Event-related potential responses to morphophonological violations. Talk given at *Hanyang International Symposium on Phonetics and Cognitive Sciences of Language 2023*, May 26 - 27, Seoul, South Korea.
- Chang, C.-Y.** (2020). An acoustic study of monophthongs in Takibakha Bunun. Paper presented at *National Conference on Linguistics 2020*, November 14, Kaohsiung, Taiwan.
- Chang, C.-Y.** & F.-F. Hsieh (2019). Neural responses to tonal and segmental gaps in Mandarin Chinese. Paper presented at *Hanyang International Symposium on Phonetics and Cognitive Sciences of Language 2019*, May 24 - 25, Seoul, South Korea.
- Yang, F.-P. G., **C.-Y. Chang,** S. C. LaHue, S. R. Cooper, T. L. Luks, P. Mukherjee (2016). The semantic memory deficits after traumatic brain injury: a functional magnetic resonance imaging study. Poster presented at the *22nd Annual Meeting of the Organization for Human Brain Mapping*, June 26 - 30, Geneva, Switzerland.

INVITED PRESENTATIONS

- Chang, C.-Y.** (2023). Probing the mental representation of speech sounds with nonexistent combinations. Talk given at Taiwanese Young Researcher Association, April 29, Virtual meeting.
- Chang, C.-Y.,** F.-F. Hsieh, Y.-C. Chang, J.-F. L. Lin (2021). Tracking lexical tone processing in the human auditory pathway. Poster presented at *Symposium of NTHU Multidisciplinary and Competitive Programs of MOE Higher Education Sprout Project*, December 8, Virtual meeting.
- Chang, C.-Y.** & F.-F. Hsieh (2020). Electrophysiological responses to tone- and segment-induced phonotactic anomalies. Paper presented at *Exploring Interfaces #4: Natural Language and Neural Network*, November 27, Hsinchu, Taiwan.

HONORS & AWARDS

Excellent Student Paper Award, Taiwan Society of Cognitive Neuroscience	2025
Graduate School Predissertation Research Grant (US\$1,300), UMass	2024
Fulbright Scholarship (US\$71,652), Foundation for Scholarly Exchange	2022 - 2024
University Graduate Fellowship (US\$24,821), UMass	2023
Honorary Member of Phi Tau Phi Scholastic Honor Society	2016
Academic Excellence Awards, NTHU	2012 - 2013, 2014 - 2015
Dean's List, College of Life Science, NTHU	2012 - 2014
Summer School Fellowship (NT\$10,000), Academia Sinica	2014
New Undergraduate Merit Scholarship (NT\$400,000), NTHU	2012 - 2016

RESEARCH EXPERIENCE

Neurocognition and Perception Laboratory, UMass United States

<i>Graduate student</i>	Sep. 2022 - Present
PI: Prof. Lisa D. Sanders	
Project: Event-related potential responses to violations of morphophonological rules, phonological expectations, and phonetic cues (Co-PI: Prof. Alexandra Jesse)	
<ul style="list-style-type: none"> ▪ analyzed and interpreted preliminary ERP results ▪ performing EEG representational similarity analysis 	
Cognition, Humor, and Affect Neuroscience Lab, NTHU	Hsinchu, Taiwan
<i>Research assistant</i>	Mar. 2022 - Jul. 2022
PI: Prof. Yu-Chen Chan	
Project: Sex differences in humor styles and coping humor	
<ul style="list-style-type: none"> ▪ collected behavioral, fMRI, and EEG data 	
Neurolinguistics Laboratory, NTHU	Hsinchu, Taiwan
<i>Research assistant</i>	Feb. 2020 - Feb. 2022
PI: Prof. Jo-Fu Lotus Lin	
Project: Pre-attentive processing of tone sandhi in Mandarin Chinese	
<ul style="list-style-type: none"> ▪ collected, analyzed, and curated EEG data in the BIDS format 	
Phonetics Laboratory, NTHU	Hsinchu, Taiwan
<i>Master's student</i>	Aug. 2016 - Feb. 2020
PIs: Prof. Yueh-chin Chang & Prof. Feng-fan Hsieh	
Project: Coarticulatory patterns of nasal rimes in Taiwanese Mandarin and Southern Min	
<ul style="list-style-type: none"> ▪ conducted electromagnetic articulography experiments 	
Project: Gemination in prosodically weak elements in Taiwanese Southern Min and Hakka	
<ul style="list-style-type: none"> ▪ recorded, transcribed, and analyzed acoustic data 	
Language and Cognitive Neurology Laboratory, NTHU	Hsinchu, Taiwan
<i>Undergraduate student</i>	Jul. 2014 - Jun. 2016
PI: Prof. Fan-Pei Gloria Yang	
Project: Semantic memory deficits in traumatic brain injury patients	
<ul style="list-style-type: none"> ▪ analyzed fMRI data (general linear model and connectivity) 	

ADDITIONAL ACADEMIC TRAINING

Linguistic Society of America	United States
<i>Summer institute student</i>	Jun. 2023 - Jul. 2023
Online Studies, Johns Hopkins University	(via Coursera)
<i>Neuroscience and Neuroimaging Specialization</i>	Sep. 2021 - Dec. 2022
International Summer College, Ewha Womans University	Seoul, Korea
<i>Visiting student</i>	Jun. 2016 - Jul. 2016
Institute of Statistical Science, Academia Sinica	Taipei, Taiwan
<i>Summer school student</i>	Jul. 2014 - Aug. 2014

ADDITIONAL COLLABORATIONS

Linguistic Fieldwork	Mar. 2021 - Present
PI: Prof. Shu-Chuan Chen (NTHU)	
Project: Documentation of Taiwanese Southern Min vowel inventories	
<ul style="list-style-type: none"> ▪ extracting lip gestures from digital videos based on motion tracking ▪ completed acoustic recordings and analysis 	
MANYEEGANALYSTS	Oct. 2024 - Present

PIs: Dr. Katharina Paul & Prof. Dr. Jan Wacker (Universität Hamburg)

Project: The sources of variance in EEG data analysis routines

- participating as an individual EEG data analyst

TEACHING EXPERIENCE

College of Natural Sciences, UMass	United States
<i>Teaching fellow</i>	May. 2025 - Dec. 2025
Department of Psychological and Brain Sciences, UMass	United States
<i>Instructor of Record for Cognitive Psychology</i>	Jul. 2025 - Aug. 2025, Jan. 2025 - Present
<i>Teaching assistant for Cognitive Psychology</i>	Sep. 2024 - Dec. 2024, Sep. 2025 - Dec. 2025
<i>Teaching assistant for Methods of Inquiry in Psychology</i>	Sep. 2023 - Dec. 2023
<i>Teaching assistant for Introductory Psychology</i>	Sep. 2022 - Dec. 2022
Institute of Linguistics, NTHU	Hsinchu, Taiwan
<i>Teaching assistant for Experimental phonetics</i>	Feb. 2019 - May 2019
<i>Teaching assistant for Phonology (I)</i>	Sep. 2018 - Oct. 2018
<i>Teaching assistant for Undergraduate Phonetics</i>	Sep. 2017 - Feb. 2018

MENTORING EXPERIENCE

Department Undergraduate Mentoring Program, UMass	United States
Mentee: Vivien Wang	Dec. 2023 – Present
▪ meet monthly to discuss professional development	
Neurocognition and Perception Laboratory, UMass	United States
Faculty Supervisor: Prof. Lisa D. Sanders	Mar. 2023 - Present
▪ trained undergraduate students to run behavioral experiments	
▪ provided consultation on R and Python programming	
Mentor-Mentee Program, Taiwanese Young Researcher Association	Virtual
Mentee: Kai-Ning Wang	Jul. 2023 - Mar. 2024
(now PhD student at the University of Illinois Urbana-Champaign)	
▪ met monthly to discuss PhD program application	
Mentee: Li-Yang Tseng	Jul. 2023 - Oct. 2024
(now PhD student at Nanyang Technological University)	
▪ guided mentee to narrow down research interests	
Cognition, Humor, and Affect Neuroscience Lab, NTHU	Hsinchu, Taiwan
Faculty Supervisor: Prof. Yu-Chen Chan	Mar. 2022 - Jul. 2022
▪ trained lab members to conduct behavioral and EEG experiments	
▪ held workshops on E-Prime	
Neurolinguistics Laboratory, NTHU	Hsinchu, Taiwan
Faculty Supervisor: Prof. Jo-Fu Lotus Lin	Feb. 2020 - Jul. 2022
▪ Master's theses: Chia-Ying Tsai (2022), Yi-ting Chen (2022), Jesse Holmes (2021)	

SERVICE

Ad hoc reviewer, the 62 nd Annual Meeting of the Chicago Linguistic Society	2026
Ad hoc reviewer, the 2025 Annual Meeting of the Cognitive Science Society	2025
Ad hoc reviewer, the 61 st Annual Meeting of the Chicago Linguistic Society	2025
Secretary, UMass Fulbright Association	May 2025 - Present
Organizing Committee, UMass Anderson-Myers Colloquium	Oct. 2023 - Apr. 2024

Reviewer, International Congress of Phonetic Sciences
Public relations, Taiwanese Young Researcher Association

2023
May 2022 - Dec. 2025

PROFESSIONAL MEMBERSHIP

Society for the Neurobiology of Language	May. 2025 - Present
Taiwan Society of Cognitive Neuroscience	Oct. 2024 - Present
Linguistic Society of Taiwan	Nov. 2019 - Present

COMPUTER SKILLS

Programming languages	R, MATLAB, C, and Python
Experiment control	E-Prime, PsychoPy, and PsyToolkit
Statistical packages	Microsoft Excel, SPSS
Phonetic analysis	Praat and WaveSurfer
Graphical design	Canvas, Adobe Photoshop and Illustrator

LANGUAGES

Mandarin Chinese	native
English	proficient (TOEFL iBT: 109/120)
Korean	basic (TOPIK I: 196/200)
Taiwanese Southern Min	heritage/speaking knowledge
German	basic