

# Fan-Yin Cheng

Hearing Function Lab • TexAN Lab

Department of Speech, Language, and Hearing Sciences, University of Texas at Austin

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## EDUCATION

- **University of Texas-Austin (UT-Austin), TX, United States** **Aug. 2017 - Present**
    - Doctor of Philosophy in Speech, Language, and Hearing Sciences
  - **University of Colorado-Boulder (CUB), CO, United States** **Aug. 2016 - May 2017 (Unearned)**
    - Doctor of Philosophy in Speech, Language, and Hearing Sciences
  - **University of Colorado-Boulder, CO, United States** **Aug. 2014 - May 2016**
    - Master of Arts in Speech, Language, and Hearing Sciences – Research
    - **Thesis Title:** Cross-linguistic Semantic Priming Effects in English Language Learners
    - **Committee:** Pui Fong Kan, Bhuvana Narasimhan, and Christina Meyers
  - **National Cheng Kung University (NCKU), Tainan, Taiwan** **Sep. 2009 - June 2014**
    - Bachelor of Arts in Foreign Languages and Literature
  - **National Cheng Kung University, Tainan, Taiwan** **Jan. 2009 - June 2014**
    - Certificate program in Teaching Chinese to Speakers of Other Languages (20 credits and 18 hours of internship)
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## RESEARCH EXPERIENCE

- **Graduate Research Assistant, Texas Auditory Neuroscience (TexAN) Lab, UT-Austin** **June 2020 - Present**
    - Organizing database and analyzing data for Spencer Smith, Ph.D, Au.D
    - Reviewing the literature about spatial listening, and the efferent neural mechanisms effects on periphery
    - Creating the experiments protocols
    - Managing the lab website
  - **Research Assistant, Child Language and Learning Lab, CUB** **May 2015 - July 2016**
    - Organizing database and analyzing data for Pui Fong Kan, Ph.D, CCC-Slp
    - Training new research assistants in the lab
    - Collaborating with the RAs in San Francisco
    - Managing the lab website
  - **Research Assistant, Language, Development, and Cognition Lab, CUB** **Feb. 2015 - June 2015**
    - Collecting data for Bhuvana Narasimhan, Ph.D
    - Producing Stimuli for chapter “The Influence of Visual, Auditory, and Linguistic Cues On Children’s Novel Verb Generalization”
  - **Research Assistant, Prof. Li-Mei Chen’s Research Lab, NCKU, Taiwan** **July 2011 - June 2014**
    - Collecting data from 3 to 6-year-old mandarin-speaking subjects every 3 months for Li-Mei Chen, Ph.D
    - Providing direct assistance by recording procedure and assessment tools organization
    - Designing the software “TCSIM” (Mandarin version of TOCS+) with assistance from Prof. Megan Hodge’s team at University of Alberta
    - Transcribing data into IPA symbols and analyzing  $F_1$  and  $F_2$  of vowels in TF32
    - Preparing publication drafts in consonants, tones, and vowels
    - Training the members in the lab
    - Collaborating with Prof. D. Kimbrough Oller’s team at the University of Memphis in examining the acoustic analysis software LIPP
    - Organizing annotated bibliography about Mandarin-speaking children with Cerebral Palsy
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## CLINICAL EXPERIENCE

- **Graduate Clinician**, Dell Children's Medical Center (Ascension) , TX **June 2021- August 2021 (\*\*hours)**
  - Preceptor: Michelle Hsieh Pho, Au.D, Ph.D., CCC-A, and Madison Loffler, Au.D., CCC-A, FAAA
  - Conducting behavioral audiometry (including VRA, CPA) for children
  - Conducting sedated and non-sedated Auditory Brainstem Response (ABRs) testing, and Distortion product otoacoustic emissions (DPOAEs).
  - Conducting Ototoxicity monitoring and inpatient bedside hearing screening
- **Graduate Clinician**, Austin Ear, Nose & Throat (ENT) Clinic- Central , TX **January 2021- May 2021 (263hours)**
  - Preceptor: Deepa Suneel, Au.D, and Elaine Leatherwood, M.A., CCC-A, FAAA
  - Conducting diagnostic audiometry for children and adults
  - Conducting comprehensive hearing aid services
  - Assessing vestibular system with Vestibular Nystagmography (VNG)
  - Conducting electrophysiologic testing, including neurodiagnostic Auditory Brainstem Response (ABRs), Electrocochleography (ECoChGs), Vestibular Evoked Myogenic Potential (VEMPs)
- **Graduate Clinician**, Austin Regional Clinic-Round Rock, TX **August 2020- December 2020 (217.7hours)**
  - Preceptor: Angel F. De La Cruz, Au.D, FAAA
  - Conducting comprehensive diagnostic hearing evaluation for children and adults
  - Conducting hearing aids consultation, fitting, and follow-up meetings
- **Graduate Clinician**, University of Texas Speech and Hearing Center, TX **June 2020- August 2020 (117.5 hours)**
  - Preceptors: Amanda Zappler, Au.D, CCC-A and Sangeeta C. Kamdar, Ph.D, Au.D, CCC-A
  - Evaluating comprehensive audiometry virtually via SimuCase, AudsimFlex, and Virtual Audiometer (VAS)
  - Conducting summer camp *Crew at the Zoo* for school-age children (age around six to eight years old)
  - Conducting four week virtually aural rehabilitation
  - Conducting hearing conservation programs with college-age students
- **Graduate Clinician**, University of Texas Speech and Hearing Center, TX **March 2020- May 2020 (59 hours)**
  - Preceptors: Amanda Zappler, Au.D, CCC-A, Sangeeta C. Kamdar, Ph.D, Au.D, CCC-A, and Levi Young, Au.D, CCC-A
  - Conducting four weeks virtually aural rehabilitation
  - Fitting and programming hearing aids
- **Graduate Clinician**, Austin ENT Clinic-Dr. James Kamper's Office, TX **February 2020- March 2020 (47.5 hours)**
  - Preceptor: Jessica DeLaRosa, Au.D, CCC-A
  - Evaluating basic audiogram and tympanometry for children and adults
  - Assessing vestibular system with VNG and Computerized Dynamic Posturography (CDP)
- **Graduate Clinician**, University of Texas Speech and Hearing Center, TX **January 2019-January 2020 (158.3 hours)**
  - Preceptors: Amanda Zappler, Au.D, CCC-A and Craig A. Champlin, Ph.D, Au.D, CCC-A
  - Evaluating comprehensive audiological evaluation for adults
  - Providing hearing aids to adults with limited income through the Sertoma Hearing Aid Recycling Program (SHARP)
  - Counseling for geriatric patients regarding hearing loss, amplification use and communication strategies
  - Completing preschool screening rotation with assessing speech, language, and hearing of preschoolers
  - Measuring objective results to adults with Otoacoustic Emission (OAE), Automatic Auditory Brainstem Response (AABR), neurological ABR, tone burst ABR, click ABR, complex ABR (cABR), Auditory Steady State response (ASSR)
- **Observation**, University of Colorado Hospital, CO **July 2016**
  - Observing Kathleen Zaccaro, MA, CCC-A and Donna Malsam, Ph.D, Au.D, CCC-A in Adult diagnostic
  - Observing Shannon Elam, Ph.D, Au.D, CCC-A in Pediatric amplification/cochlear implants

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## TEACHING EXPERIENCE

- **Assistant Instructor**, UT-Austin, Austin, TX
  - **Fall, 2021; Spring, 2021; Fall, 2020** SLH 158L Anatomy and Physiology of the Speech and Hearing Mechanisms Lab
- **Teaching Assistant**, UT-Austin, Austin, TX

- **Fall, 2021; Spring, 2021; Fall, 2020** SLH 358 Anatomy and Physiology of the Speech and Hearing Mechanisms
- **Sping, 2020; \*Fall, 2019; \*Spring 2019; \*Fall, 2018** CSD 358 Anatomy and Physiology of the Speech and Hearing Mechanisms
  - \* Presented three lectures on speech acoustics with the guidance and feedback of Dr. Lester-Smith
- **Sping, 2020; Fall, 2019; Spring 2019** SLH 158L Anatomy and Physiology of the Speech and Hearing Mechanisms Lab
- **Spring 2019** CSD 378 Principles of Aural Rehabilitation

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## HONOR

- **The 6<sup>th</sup> MEKTEC CUP Creative Competition**, NCKU **Nov. 2010**
  - In Humanity and Social Sciences section: Award for Excellent

## SCHOLARSHIP AND FELLOWSHIP

- **Graduate School Summer Fellowship**, Graduate School, UT-Austin **May. 2021**
  - Total Award: \$7500
- **Roderick P. Hart Student Achievement Award**, Moody College of Communication, UT-Austin **May. 2021**
  - Total Award: \$1000
- **Graduate School Fellowship**, Graduate School, UT-Austin **Sep. 2020**
  - Total Award: \$5000
- **Graduate School Fellowship**, Graduate School, UT-Austin **Sep. 2019**
  - Total Award: \$5000
- **Professional Development Award**, Graduate School, UT-Austin **Dec. 2019**
  - Total Award: \$500
- **Graduate School Fellowship**, Graduate School, UT-Austin **Sep. 2018**
  - Total Award: \$5000
- **Graduate School Meritorious Award**, Department of Communication Sciences, and Disorders, UT-Austin **Sep. 2017**
  - Stipend: \$20000
  - Tuition: \$9328
  - Medical Health Insurance: \$2185
- **Provost Fellowship**, Department of Communication Sciences, and Disorders, UT-Austin **Sep. 2017**
  - Total Award: \$5000
- **Department Travel Funding**, Department of Speech, Language, and Hearing Sciences, CUB **Nov. 2016**
  - Total Award: \$700
- **Department Fellowship**, Department of Speech, Language, and Hearing Sciences, CUB **May 2016**
  - Total Award: \$6,000
- **Department Research Funding**, Department of Speech, Language, and Hearing Sciences, CUB **Nov. 2015**
  - Total Award: \$772

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## PUBLICATIONS

- Cheng, F.-Y., Xu, C., Gold, L., & Smith, S. (submitted). *Rapid enhancement of subcortical neural responses to sine-wave speech.*
- Cheng, F.-Y., & Smith, S. (submitted). *Comparing two statistical methods for objectively detecting speech frequency following responses (sffr).*
- Cheng, F.-Y., Campbell, J., & Liu, C. (submitted). *Auditory sensory gating: Effects of noise.*
- Cheng, F.-Y., & Champlin, C. A. (2021). Auditory brainstem responses to successive sounds: Effects of gap duration and depth. *Audiology Research*, 11(1), 38-46.

- Narasimhan, B., Cheng, F.-Y., Davidson, P., Kan, P. F., & Wagner, M. (2017a). The influence of visual, auditory, and linguistic cues on children's novel verb generalization. In G. Sengupta, S. Sircar, G. Raman, & R. Balusu (Eds.), *Perspectives on the architecture and acquisition of syntax* (pp. 217-233). Springer, Singapore.
- Chen, L.-M., Cheng, F.-Y., & Hsu, W. C. (2013). Longitudinal changes of formant values and vowel space in two mandarin-speaking children before 9 years of age. *Proceedings of Meetings on Acoustics*, 19(1).
- Hsu, W. C., Chen, L.-m., & Cheng, F.-Y.. (2013). Acoustic vowel space and speech rate in mandarin-speaking children with cerebral palsy. *Proceedings of Meetings on Acoustics*, 19(1).
- Chen, L.-M., Cheng, F.-Y., & Ni, H.-C. (2013). Speech rate and speech intelligibility in children with cerebral pals. *Proceedings of 2012 Language and Language Teaching Conference*, 42-47.

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## PRESENTATIONS

- Cheng, F.-Y., Campbell, J., & Liu, C. (2020). Auditory sensory gating: Effects of noise. In *Cognitive neuroscience society 2020*. Virtual Meeting.
- Cheng, F.-Y., So, W., & Champlin, C. A. (2019). Auditory brainstem responses to successive sounds: Effects of gap duration and depth. *The Journal of the Acoustical Society of America*, 146(4), 2831-2831.
- So, W., Cheng, F.-Y., & Champlin, C. A. (2019). Effects of interaural phase on the frequency following response. *The Journal of the Acoustical Society of America*, 146(4), 2832-2832.
- Narasimhan, B., Cheng, F.-Y., Davidson, P., Kan, P. F., & Wagner, M. (2017b). Multimodal cues in children's verb learning. In *Linguistic society of america annual winter meeting 2017*. Austin, TX.
- Cheng, F.-Y., & Kan, P. F. (2016). Crosslinguistic semantic priming effects in english-language learners. In *Annual conference of the american speech, language, and hearing association*. Philadelphia, PA.
- Simon-Cerejido, G., Kan, P. F., Cheng, F.-Y., & Wyatt, K. (2016). Learning grammatical morphemes in L2-english: A comparison between L1-spanish and L1-cantonese children. In *National research conference on early childhood*. Washington D.C.
- Cheng, F.-Y., Kan, P. F., & Yamashita, J. (2015). Cross-linguistic priming in mandarin-english bilingual speakers. In *Annual conference of the american speech, language, and hearing association*. Denver, CO.
- Cheng, F.-Y., & Ni, H.-C. (2012). Phonological features in 4 to 6-year-old mandarin-speaking children. In *International conference on languages, literatures, and cultures*. Taichung, Taiwan.

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## TRAINING AND CERTIFICATES

- **Collaborative Institutional Training Initiative (CITI)**, CUB **Nov. 2014**
- **Training Program of IRB and Graduate Institute of Clinical Medicine**, NCKU, Taiwan **March 2013**

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## SKILLS

- **Language:** Mandarin (Native), English (Fluent), Japanese (Intermediate), American Sign Language (Basic)
- **Computer Skills:** Matlab, Audacity, Praat (an acoustic analitical software), E-prime, SALT, TF32, LIPP, TOCS+ (a children's speech test), Filemaker pro
- **Statistical Software:** SPSS, Matlab, R

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## VOLUNTEER EXPERIENCE

- **Volunteer**, Conference of 2011 EAST-WEST: Deterritorialization, Negotiation, Glocalization **May 2011**
    - Hold by the International Association for Philosophy and Literature and NCKU
  - **Translator**, 2010 Spring International Education Expo, Kaohsiung, Taiwan **March 2010**
    - Hold by OH! Study Education Consulting Center
  - **Volunteer**, Conference of 2010 Culture as Creativity and Business: Re-examining the Entanglement of symbol, Capital, and Power **March 2010**
    - Hold by Cultural Studies Association and NCKU
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## LEADERSHIP AND ARTS EXPERIENCE

- **Drama Director and Performer**, Department of Foreign Language and Literature, NCKU **Dec. 2011 - May 2013**
  - Directed the graduation drama of Foreign Language and Literature Department Japanese section
  - Performed the main character Shimitsu Atsuko in Japanese section
- **Public Relations Planner**, Department of Foreign Language and Literature, NCKU **Oct. 2011 - April 2013**
  - Arranged the 28<sup>th</sup> English Singing Contest of NCKU for about 100 teams Directed the graduation drama of Foreign Language and Literature Department Japanese section
  - Scheduled activities, and served as the liaison between staff and attendees
- **Life Counselor**, Summer Camp of Foreign Language and Literature Department, NCKU **Jan. 2011 - July 2011**
  - Collaborated with President and other coordinators to train staff
  - Arranged activities of the 8<sup>th</sup> FLLD camp of NCKU
  - Budget management
  - Scheduled activities, and served as the liaison between staff and attendees
- **Scriptwriter and Performer**, Ping-Fong Acting Troupe **Sep. 2009 - Jan. 2010**
  - Wrote one of the scripts for the performance supervised by Ping-Fong acting troupe
  - Performed the character Ya-Fen Liang in drama *Losing control*