

Curriculum Vitae

Chang Liu, Ph.D.

Associate Professor

The University of Texas at Austin

Education

Ph.D. 2002 Indiana University (Speech and Hearing Sciences)

B. S. 1997 Peking University (Physiology and Biophysics)

Work Experience

Aug., 2017 – present University of Texas at Austin (UT Austin) Austin, TX
Graduate Advisor for the PhD program in the Department of Communication Sciences and Disorders (CSD)

Aug., 2013 – present University of Texas at Austin (UT Austin) Austin, TX
Associate Professor in the Department of Communication Sciences and Disorders (CSD)

Aug., 2007 – July, 2013 University of Texas at Austin (UT Austin) Austin, TX
Assistant Professor in the Department of Communication Sciences and Disorders (CSD)

Aug., 2004 – July, 2007 Wichita State University (WSU) Wichita, KS
Assistant Professor in the Department of Communication Sciences and Disorders (CSD)

Sep., 2002 – July, 2004 University at Buffalo (UB) Buffalo, NY
Visiting Assistant Professor in the Department of Communicative Disorders and Sciences (CDS)

July, 2001 – Aug., 2002 Indiana University Bloomington, IN
Consultant for a research project of Test of English as a Second Language in Noise for the Department of Linguistics at Indiana University

Aug., 1999 – Aug., 2002 Indiana University Bloomington, IN
Research Assistant in the Speech Psychophysics Laboratory

Aug., 1997 – June, 1999 Indiana University Bloomington, IN
Research Assistant in the Auditory Physiology Laboratory

Research Interests

Research interest includes speech perception and production, and auditory perception of speech and non-speech sounds for a variety of populations such as native and non-native speakers, bilingual speakers, younger and older listeners, normal-hearing and hearing-impaired listeners, listeners with musical deficits, and listeners with different language backgrounds. Research area also covers speech enhancement and auditory training to improve speech recognition in noise for different populations.

Honors and Awards

Finalist, The UT President's Award for Global Learning, 2018-2019.

The University of Texas at Austin, College of Communication, Dean's Fellow, 2011, 2018.

The Graduate School Diversity Mentoring Fellowship, the University of Texas at Austin, 2010-2011.

Summer Research Award, the University of Texas at Austin, 2008.

The University Research Creative Award at Wichita State University, 2007.

The 151th Meeting of the Acoustic Society of America (ASA) Young Investigator Travel Award, 2006.

The American Speech-Language-Hearing Association's (ASHA) Advancing Academic-Research Careers (AARC) Award, 2004.

Indiana University Graduate School Chancellor's Fellowship, 1999 and 2000.

Publications

(Peer-reviewed Journal
Articles)

* denotes corresponding or co-corresponding author

+ denotes student as the first author

All student authors are in *Italics*

Research areas: A = bilingual; B = aging; C = speech enhancement;

D = amusia & tone agnosia; E = language background; F - others

1. ^{A+}Hu, W., Tao, S.*, Li, M., and Liu, C.* (2019). Distinctiveness and Assimilation in Vowel Perception in a Second Language. *Journal of Speech, Language, and Hearing Research*, 62, 4534-4543.
2. ^{D+}Li, M., Tang, W., Liu, C.*, Nan Y.,* and Dong, Q. (2019). Vowel and tone recognition for amusics: effect of vowel type and semantic contents. *Journal of the Speech, Language, and Hearing Research*, 62, 4300-4308.
3. ^{C+}Guan, J., and Liu, C.* (2019). Speech perception in noise with formant enhancement for older listeners, *Journal of Speech, Language, and Hearing Research*. 62, 3290-3301.
4. ^ATao, S., Chen, Y., Wang, W., Dong, Q., Jin, S.-H., and Liu, C.* (2019). English consonant identification in multi-talker babble: effects of listeners' English experience. *Language and Speech*, 62, 531-545.
5. ^BWang, Y., Lu, Z., Yang, X., and Liu, C.* (2019). Measurement of Mandarin speech identification using adaptive tracking, *Journal of Speech, Language, and Hearing Research*. 62, 2009-2017.
6. ^FLiu, C., and Jin., S-H.* (2019). Psychometric Functions of Vowel Detection and Identification in Long-term Speech-shaped Noise. *Journal of Speech, Language, and Hearing Research*, 62, 1473-1485.
7. ^{A+}Feng, J., Tao, S., Wu, X., Alsbury, K., and Liu, C.* (2019). The effects of amplitude and duration on the perception of English statements vs. questions for native English and Chinese listeners. *Journal of the Acoustical Society of America*, EL449-455.
8. ^{A+}Zhong, L., Liu, C.*, and Tao, S. (2019). Sentence recognition for native and non-native English listeners in quiet and babble: effects of contextual cues. *Journal of the Acoustical Society of America*, EL297-302.
9. ^BWang, Y., Yang, X., and Liu, C.* (2019). Aging effect on Mandarin Chinese speech perception in noise. *Applied Linguistics (in Chinese)*, 109, 56-66.
10. ^{F+}Feng, J., Liu, C., Li, M., Chen, H., Sun, P., Xie, R., Zhao, Y., and Wu, X.* (2019). Effects of congenital blindness on the mismatch responses to Mandarin lexical tone, consonant, and vowel. *Hearing Research*. 371, 87-97.
11. ^{D+}Tang, W., Wang, X.J., Li, J.Q., Liu, C.* Dong, Q., and Nan Y.* (2018). Vowel and tone recognition in quiet and noise among Mandarin-speaking amusics. *Hearing Research*, 363, 62-69.
12. ^{A+}Xu, C., Yang, X., Wang, Y., Zhang, H., Ding, H., and Liu, C.* (2018) Informational Masking of Six-talker Babble on Mandarin Chinese Vowel and Tone Identification:

- Comparison between Native Chinese and Korean Listeners, *Studies of Psychology and Behavior* (in Chinese), 16, 22-30.
13. ^BWang, Y., Yang, X., and **Liu, C.*** (2017). Categorical Perception of Mandarin Chinese Tones 1-2 and Tones 1-4: Effects of Aging and Signal Duration. *The Journal of Speech, Language, and Hearing Research*, 60, 3667-3677.
 14. ^BWang, Y., Yang, X., Zhang, H., Xu, L., Xu, C., and **Liu, C.*** (2017). Aging effect on categorical perception of Mandarin Chinese tone 2 and 3 and thresholds of pitch contour discrimination. *The American Journal of Audiology*, 26, 18-26.
 15. ^{A+}Hu W., Mi, L., Yang, Z., Tao, S.*, Wang, W., Li, M. Dong, Q., & **Liu, C.*** (2016). Shifting perceptual shift in L2 vowel identification after training. *PlosOne*. doi: 10.1371/journal.pone.0162876.
 16. ^{A+}Huo, S., Tao, S., Li, M., Wang, W., Dong, Q., & **Liu, C.*** (2016). Auditory detection of non-speech and speech stimuli in noise: native speech advantage. *Journal of the Acoustical Society of America*, 139, EL161-166.
 17. ^{A+}Mi L., Tao, S.,* Wang, W., Dong, Q., Guan, J., & **Liu, C.*** (2016). English vowel identification and vowel formant discrimination by native Mandarin Chinese- and native English-speaking listeners: the effect of vowel duration dependence. *Hearing Research*, 333, 58-65.
 18. ^{A+}Li, M., Wang, W.,* Tao, S., Dong, Q., Guan, J., & **Liu, C.*** (2016). Mandarin Chinese vowel-plus-tone identification in noise: Effects of native English experience. *Hearing Research*, 331, 109-118.
 19. ^DNan, Y., Huang, W.-T., Wang, W.-J., **Liu, C.**, Dong, Q. (2016). Subgroup differences in the lexical tone mismatch negativity (MMN) among Mandarin speakers with congenital amusia. *Biological Psychology*, 113, 59-67.
 20. ^A**Liu, C.***, and Jin, S.-H. (2015). Auditory detection of non-speech and speech stimuli in noise: effects of listeners' native language background. *Journal of the Acoustical Society of America*, 138, 2782-2790.
 21. ^BYang, X., Wang, Y., Xu, L., Zhang, H., Xu, C., and **Liu, C.*** (2015). Aging effect on Chinese vowel and tone perception. *Journal of the Acoustical Society of America*, 138, EL411-416.
 22. ^{A+}Guan, J., **Liu, C.***, Tao, S., Mi, L., Wang, W., and Dong, Q. (2015). English vowel identification in temporally-modulated noise: effect of native English experience. *Journal of Acoustical Society of America*, 138, 1670-1677.
 23. ^{D+}Huang W.-T., Nan Y. *, Dong Q., and **Liu, C.**, (2015). Just-noticeable difference of tone pitch contour change for Mandarin congenital amusics, *Journal of the Acoustical Society of America*, 138, EL99-104.
 24. ^{D+}Huang W.-T., **Liu, C.***, Dong Q., and Nan Y. * (2015). Categorical Perception of Lexical Tones in Mandarin-speaking Congenital Amusics. *Front. Psychol.* 6:829. doi: 10.3389/fpsyg.2015.00829
 25. ^AJin, S.-H. and **Liu, C.** (2014). Vowel identification in noise for native and non-native listeners: effect of language backgrounds. *Frontier in Neuroscience*, 8:305. doi: 10.3389/fnins.2014.00305.
 26. ^F**Liu, C.***, Azimi, B., Bhandary, M., and Hu Y. (2014). Contribution of low-frequency harmonics to Mandarin Chinese tone identification in quiet and six-talker babble background. *Journal of the Acoustical Society of America*, 135, 428-438.
 27. ^BJin, S.-H. **Liu, C.**, and Sladen, D. (2014). Sentence recognition in temporal modulated noise for listeners with cochlear implants. *The Journal of American Academy of Audiology*, 25, 656-665.
 28. ^A**Liu, C.*** Jin, S.-H., Chen, C.-T. (2014). Durations of American English vowels by native and non-native speakers: acoustic analyses and perceptual effects. *Language and Speech*, 57, 238-253.

29. ^AJin, S.-H., and **Liu, C.** (2014). Intelligibility of English vowels and consonants produced by international students in the US. *Journal of Speech, Language, and Hearing Research*, 57, 583-596.
30. ^E**Liu, C.** (2013). Just noticeable differences of tone pitch contour change for English- and Chinese-native listeners. *Journal of the Acoustical Society of America*, 134, 3011-3020.
31. ^AJin, S.-H. and **Liu, C.** (2013). The vowel inherent spectral change of English vowels spoken by native and non-native speakers. *Journal of the Acoustical Society of America*, 133, EL 363-369.
32. ^{C+}Woodall, A., and **Liu, C.*** (2013). Effects of signal level and spectral contrast on vowel formant discrimination. *The American Journal of Audiology*, 22, 94-104.
33. ^{A+}Mi, L., Tao, S., Wang, W. J., Dong, Q., Jin, S.-H. and **Liu, C.*** (2013). Identification of English vowels in long-term speech-shaped noise and multi-talker babble for English and Chinese listeners: effects of English exposure. *Journal of the Acoustical Society of America* 133, EL391-397.
34. ^A**Liu, C.,*** and Jin, S.-H. (2013). Intelligibility of American English vowels of native and non-native speakers in quiet and speech-shaped noise. *Bilingualism: Language and Cognition*, 16, 206-218.
35. ^F**Liu, C.,*** Azimi, B., Tahamina, Q., and Hu, Y. (2012). Effects of low harmonics on tone identification in natural and vocoded speech. *Journal of the Acoustical Society of America*, 132, EL378-384.
36. ^AJin, S.-H. and **Liu, C.** (2012). English Sentence Recognition in long-term speech-shaped noise and multi-talker babble for English-, Chinese-, and Korean-native listeners. *Journal of the Acoustical Society of America*, 132, EL391-397.
37. ^C**Liu, C.,*** and Eddins, D. (2012). Measurement of stop consonant identification using adaptive tracking procedures. *Journal of the Acoustical Society of America*, 132, EL250-256.
38. ^A**Liu, C.,*** Tao, S., Wang, W., and Dong, Q. (2012). Formant discrimination of speech and non-speech sounds for English and Chinese listeners. *Journal of the Acoustical Society of America*, 132, EL189-195.
39. ^AYang, J., and **Liu, C.*** (2012). Categorical Perception of Lexical Tone for Monolingual and Bilingual School-aged Children. *International Journal of Asian Language Processing*, 22, 49-62.
40. ^A**Liu, C.,*** and Rodriguez, A. (2012). Categorical perception of intonation contrasts: effects of listeners' language background. *Journal of the Acoustical Society of America*, 131, EL427-433.
41. ^CEddins, D. and **Liu, C.** (2012). Psychometric properties of the coordinate response measure corpus with various types of background interference. *Journal of the Acoustical Society of America*, 131, EL177-183.
42. ^A**Liu, C.,*** and Jin, S.-H. (2011). Audibility of American-English vowels produced by English-, Chinese-, and Korean-native speakers in long-term speech-shaped noise. *Hearing Research*, 282, 49-55.
43. ^F**Liu, C.** (2011). Effects of roving level and spectral range on vowel formant discrimination. *Journal of the Acoustical Society of America*, 130, EL264-270.
44. ^C**Liu, C.,*** and Eddins, D. (2008). Effects of spectral modulation filtering on vowel identification. *Journal of the Acoustical Society of America*, 124, 1704-1715.
45. ^C**Liu, C.,*** and Eddins, D. (2008). Categorical dependence of vowel detection in long-term speech-shaped noise. *Journal of the Acoustical Society of America*, 123, 4539-4546.
46. ^F**Liu, C.** (2008). Rollover effects of signal level on vowel formant discrimination. *Journal of the Acoustical Society of America*, 123, EL52 – 58.
47. ^F**Liu, C.,*** and Kewley-Port, D. (2007). Vowel formant discrimination of high-fidelity speech by hearing-impaired listeners. *Journal of the Acoustical Society of America*, 122, 2855-2864.

48. ^F**Liu, C.,*** and Kewley-Port, D. (2004). Formant discrimination in noise for isolated vowels. *Journal of the Acoustical Society of America*, 116, 3119-3129.
49. ^F**Liu, C.,*** and Kewley-Port, D. (2004). Vowel formant discrimination in high-fidelity speech. *Journal of the Acoustical Society of America*, 116, 1224-1233.
50. ^F**Liu, C.,*** and Kewley-Port (2004). STRAIGHT: a new speech synthesizer for vowel formant discrimination. *Acoustical Research Letters Online (ARLO)*, 5, 31-36.

Manuscripts in revision, under review, or submitted

1. ^B**Liu, C.,** Xu, C., Wang, Y.*, Zhang, H., and Xu, L. and Yang, X. (2020). Aging effect on Chinese vowel and tone perception in multi-talker babble, submitted.

Manuscripts in preparation

1. ^FZhang, C., Li, M., Yu, J., and **Liu, C.*** (2020). Development of Mandarin Chinese vowel perception in young normal-hearing and cochlear-implanted children, to be submitted in June, 2020 (currently finalizing the manuscript)
2. ^{A+}Mi, L., Tao, S., and **Liu, C.*** (2020). L2 Vowel perceptual training: advantage of training in noise, to be submitted in June, 2020 (currently finalizing the manuscript).
3. ^{A+}Li, M., Xu, C., **Liu, C.*** and Tao, S. (2020). English vowel identification and formant discrimination in noise: effects of language experiences, to be submitted in June, 2020 (currently finalizing the manuscript).
4. ^{A+}Xu, C., Li, M., **Liu, C.*** and Tao, S. (2020). Acoustic differences between English and Mandarin Chinese running speech, to be submitted in July, 2020 (currently writing the manuscript)
5. ^D**Liu, C.,** Tang, W., Nan Y.*, and Dong, Q. (2020). Mandarin Chinese vowel and tone perception for congenital amusia: effect of single and dual tasks, to be submitted in July, 2020 (currently writing the manuscript).
6. ^{E+}Gao, X., Zhang, Y.*, Guan, J., and **Liu, C.*** (2020). Tone language user advantage in tone pitch perception? to be submitted in July, 2020 (currently writing the manuscript).
7. ^{B+}Xu, C, Wang, Y., Ding, H., Yang, X., and **Liu, C.*** (2020). Aging effect on Mandarin speech recognition in babbles, to be submitted in August 2020 (currently analyzing the data).
8. ^{A+}Estrella, A., and **Liu, C.*** (2020). English vowel identification in noise for English-Spanish bilingual speakers, to be submitted in August 2020 (currently writing the manuscript).
9. ^BWang, Y., Yang, X., and **Liu, C.*** (2020). Categorical perception of lexical tones in noise: effect of noise, to be submitted in August 2020 (currently analyzing the data).
10. ^{A+}Guo, L., Chen, Y., Li, M., **Liu, C.***, Jin, S., and Tao, S. (2020). English vowel perception of native and non-native speakers: percentage, identifiability, and response bias, to be submitted in August 2020 (currently analyzing the data).

**Publications
(Peer-reviewed
Conference Proceeding)**

1. ^{A+}Xu, C., Ding, H., and **Liu, C.*** (2017). Mandarin speech recognition in babble for Chinese- and Korean-native listeners. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, 4669-4674.
2. ^E**Liu, C. (2014).** Categorical tone identification in speech and non-speech sounds for Chinese- and English-native listeners. *IEEE Proceedings of the 4th International Conference for Audio, Language, Image Processing 2014*, 454-458.
3. ^F**Liu, C. (2010).** Detection of Chinese Vowels in Noise and Its Auditory Simulation Model. *IEEE Proceedings of the 4th International Conference on Bioinformatics and Biomedical Engineering*, 4 pages.

4. ^FLiu, C. (2009). Effect of contralateral stimulation on auditory filter bandwidth: a preliminary study. *IEEE Proceedings of the 3rd International Conference on Bioinformatics and Biomedical Engineering*, 4 pages.
5. ^FLiu, C. (2009). Auditory model of vowel formant discrimination and intensity discrimination: effect of signal frequency. *IEEE Proceedings of the 3rd International Conference on Bioinformatics and Biomedical Engineering 2009*, 4 pages.
6. ^FLiu, C. (2008). Growth of masking for 1-kHz tone with normal-hearing listeners: effects of signal duration and noise frequency. *IEEE Proceedings of International Conference for Audio, Language, Image Processing 2008*, 118-122.
7. ^FLiu, C. and Whitesell, A. (2008). Auditory temporal processing of pre-school aged children with phonological disorders and typical development. *IEEE Proceedings of International Conference for Audio, Language, Image Processing 2008*, 1419-1423.

Research Grants

Awarded

- **External Grants**
 - Shanghai Planning Office of Philosophy and Social Science, “Aging effect on Mandarin Chinese speech perception,” **Oct. 2017-Aug. 2019**, Co-Investigator (PI: Yuxia Wang), RMB 80,000 (~US 12, 700; non-OSP project).
 - China National Nature Science Foundation, “The difficulty and training of English speech perception for Chinese college students”, **Jan. 2017-Dec. 2018**, Principle Investigator, RMB 180,000 (~US 27,300; non-OSP project).
 - Open Project from the State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing China, “Effects of lexical tones on Mandarin Chinese speech perception,” **Jan. 2015 – Dec. 2016.**, Principle Investigator, RMB 80,000 (~US \$12,700; non-OSP project).
 - Open Project from the State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing China, “Behavioral and physiological effects of training on English speech intelligibility and perception of Chinese young students,” **Jan. 2012 – Dec. 2013.**, Principle Investigator, RMB 80,000 (~US \$12,700; non-OSP project).
 - American Speech-Language-Hearing Foundation (ASHF) New Century Scholar Research Grant, “Auditory processing: comparing phonologically disordered and typically developing children,” **Dec. 2008 – Dec. 2010**, Principal Investigator, \$10,000 (OSP #200802853).
 - American Speech-Language-Hearing Association (ASHA) Advancing-Academic Research Career (AARC) Award, “Development of frequency selectivity, intensity discrimination and vowel formant discrimination in young school-aged children.” **Aug. 2004 – Aug. 2005**, Principal Investigator, \$5,000.
- **Internal Grants**
 - UT Research Grant, “Speech enhancement: better speech perception in noise,” **Oct. 2014 – Aug. 2015**, Principal Investigator, \$6,000.
 - UT Special Research Grant, “Perceptual training in identification of tonal pitch,” **Mar. 2010 – Aug. 2010**, Principal Investigator, \$750.
 - UT Research Grant, “Speech intelligibility of non-native and native speakers in quiet and noisy listening conditions,” **Oct. 2008 – Aug. 2009**, Principal Investigator, \$6,000.

Submitted but not funded

- **External Grants**
 - National Institute of Health (NIH) National Institute on Deafness and Other Communication Disorders (NIDCD), “Speech perception for aging bilingual population,” **Apr. 2019 – Mar., 2024**, Principle Investigator, \$2,756,431, submitted, June, 2018.

- National Science Foundation (NSF) Division of Behavioral and Cognitive Science, “Establishment of English Vowel System for International Students,” **Jan. 2019 – Dec. 2022**, Principle Investigator, \$492,621, submitted, July, 2018.
- National Institute of Health (NIH) National Institute on Deafness and Other Communication Disorders (NIDCD), “Speech perception for aging bilingual population,” **Sept. 2018 – Aug., 2023**, Principle Investigator, \$1,854,293, submitted, November, 2017.
- National Science Foundation (NSF) Division of Behavioral and Cognitive Science, “Auditory Perception of Speech and Non-speech Sounds: Language Background and Race Diversity,” **Jan. 2018 – Dec. 2021**, Principle Investigator, \$532,262, submitted, August, 2017.
- National Institute of Deafness and Other Communication Disorders (NIDCD), “Speech perception for aging bilingual population”, **Sept. 2017-Aug. 2022**, Principle Investigator, \$1, 856,629, submitted, October, 2016.
- National Science Foundation (NSF) Division of Behavioral and Cognitive Science, “International students' English speech learning: challenge and training,” **Jan. 2015 – Dec. 2019**, Principle Investigator, \$ 489,994, submitted, July, 2014.
- National Science Foundation (NSF) Faculty Early Career Development Program, “Investigating the challenge of international students’ English speech communication,” **Jan. 2013 – Dec. 2017**, Principle Investigator, \$ 481,560, submitted, July, 2012.
- NIH NIDCD R01 Grant, “Monaural and binaural spectro-temporal processing and hearing enhancement device,” **2010-2015**, Co-Principle Investigator, \$1,888,887 (\$682,262 for the UT subcontract; PI: David Eddins, University of Rochester), submitted, November 2008 and resubmitted, November 2009.
- Deafness Research Foundation, “Physiological and behavioral measures of frequency selectivity,” **2010-2011**, Co-Investigator (PI: Su-Hyun Jin, UT-Austin), \$25,000, submitted, December 2009.
- NIH NIDCD R03 Grant, “Auditory Perception in Noise with Contralateral Stimulation-Efferent Fibers Role”, **2008-2010**, Principle Investigator, \$352,662, submitted, March 2007.

Invited presentations

Liu, C. “English phonemic perception and training for L2 learners”, The 9th Congress of China Cognitive and Neurolinguistics, Shanghai, China, October 16-18, 2020 (to be presented).

Liu, C. “Aging effect on Chinese speech recognition”, The 1st Oriental Congress of Auditory and Vestibular Medicine, Shanghai, China, August 10, 2019.

Liu, C. “Auditory perception in children of speech disorders”, The Symposium on Speech Therapy, Beijing Stomatological Hospital Beijing, China, October 16, 2017.

Liu, C. “English speech production and perception for Chinese college student: challenge and training”, School of Behavioral and Psychological Sciences, Tianjin Normal University, Tianjing, China, June 12, 2016.

Liu, C. “Aging effect on Mandarin Chinese speech recognition”, Shanghai Jiao Tong University, Shanghai, China, June 2, 2016.

Liu, C., Yang, X., Wang, Y., Xu, L., Zhang, H., and Xu, C. “Aging effect on Chinese vowel and tone identification”, Beijing International Audiology Conference, May 31, 2015.

Liu, C. “Vowel formant discrimination: Effects of listeners’ hearing status and language background”, the 168th Meeting of the Acoustical Society of America, October 29, 2014.

Liu, C. “Lexical tone processing: effects of listeners’ language background, listening environment, and tone disorders”, The National Key Laboratory of Otolaryngology, Beijing Tongren Hospital, June 14, 2014.

Liu, C. “Challenge of Understanding Non-native Speakers: Phonemic Intelligibility”, Department of Communication Sciences and Disorders, University of South Florida, April 29, 2011.

Teaching Interests & Experiences

Teaching interest include Hearing Science, Speech Science, Psychoacoustics, Speech perception, Acoustics, Anatomy and Physiology in Speech and Hearing, Neurology, Mathematics and Physics in Speech and Hearing Sciences, Digital Signal Processing

Aug., 2007 – Present CSD, UT Austin Austin, TX
Assistant/Associate Professor

- CSD 313L, Hearing Science (flag course of Global Culture)
- CSD 113P, Hearing Science Laboratory
- CSD 391P, Anatomy and Physiology of Auditory System
- CSD 394K2, Psychoacoustics
- CSD 392P, Speech perception: theory and clinical aspect
- CSD 383N, Doctoral Seminar in Speech Perception & Acoustics

Aug., 2004 – July 2007 CSD, WSU Wichita, KS
Assistant Professor

- CSD 210, Physics of Sound
- CSD 300, Anatomy and physiology of speech and hearing mechanisms
- CSD 501, Speech and Hearing Sciences
- CSD 605, Neurology I: basic process
- CSD 904, Speech perception
- CSD 940, Doctoral seminar in speech science

Sep., 2002 – July, 2004 CDS, UB Buffalo, NY
Visiting Assistant Professor

- CDS 383/643, Physiology and Anatomy of Audition
- CDS 532, Acoustics and Instrumentation
- CDS 582, Speech Science
- CDS 699, Doctoral Seminar

Aug., 2000 – Dec., 2000 SPHS, IU Bloomington, IN
Co-Instructor (with Dr. D. Kewley-Port)

- S319/S519, Mathematical foundations of speech and hearing sciences

Aug., 1997 – Dec., 2001 SPHS, IU

Bloomington, IN

Associate Instructor

- S201/S515, Speech Anatomy and Physiology (Instructor: C. Davis)
- S275, Hearing science and communication (Instructor: Dr. A. Eddins)
- S302/S515, Introduction to acoustics (Instructor: Dr. D. Kewley-Port).
- S371/S571, Auditory anatomy and physiology (Instructor: Dr. C. Watson)
- S501, Neuroanatomy of speech and language (Twice: Instructor: O. Ray; Dr. S. Barlow)
- S522, Digital signal processing (Instructor: Dr. D. Kewley-Port)

**Educational (Teaching)
Grants**

Awarded

UT-Austin Global Virtual Exchange Program, May 2020- Summer 2022, \$5,500.

UT-Austin Faculty Innovation Center Undergraduate Teaching Grant, “Improve learning from evidence-based practice with online tools”, May 2020- Summer 2021, \$5, 000

UT-Austin Global Classroom Program (now UT Global Virtual Exchange), Course: Hearing Science, Fall 2017-Summer 2018, \$10, 000

Educational Projects

UT-Austin Global Virtual Exchange Program with CSD 313L and 113 P– Hearing Science & Laboratory (flag course of Global Cultures): 2017-present (to be continued).

UT-Austin CSD Option III graduate program in Speech and Hearing Sciences (in proposal).

Academic Supervision

PhD student supervision

PhD advisees

Jingjing Guan, Aug. 2012 – Aug. 2017, previously Assistant Professor at Texas Tech University and currently Innovation Center Director, Sonova, Shanghai, China.

Ying Hao, June 2018 – Aug. 2019, currently Assistant Professor at Univ. of Mississippi

Ashley Woodall, Aug. 2012 – May 2013, PhD student, UT

Mingshuang Li, Aug. 2016 – present, PhD student, UT

Can Xu, Aug. 2018 – present, PhD student, UT

Other PhD students

Apr. 2020 – present, Won So (PhD student), Advisory/Dissertation Committee, UT

May 2018 – present, Nahar Albudoor (PhD student), Advisory/Dissertation Committee, UT

May 2018 – present, FanYin Cheng (PhD student), Advisory Committee, UT

Aug. 2011 – Dec., 2018, Sangeeta Kamdar (PhD student), Dissertation Committee, UT

Aug. 2013 – May, 2018, Zilong Xie (PhD student), Advisory/Dissertation Committee, UT

Jan. 2016 – Dec. 2016, Ying Lu (PhD student), Dissertation Committee, UT

Aug. 2013 – Aug. 2016, Monique Murphy (PhD student), Dissertation Committee, UT

Aug. 2013 – Jan. 2016, Yu-fu Chen (PhD student), Advisory/Dissertation Committee, UT

Aug. 2013 – Aug. 2015, Rachael Gilbert (PhD student), Dissertation Committee, UT
Sept. 2010 – Dec. 2013, Michiel Shieh (PhD student), Advisory/Dissertation Committee, UT
May 2009 – April 2012, Jie Yang (PhD student), Advisory/Dissertation Committee, UT
Jan. 2008 – Feb. 2010, Amy Mullin (PhD student), Dissertation Committee, UT
Jan. 2006 – Sept. 07, Yori Kanekama (PhD student), Academic Committee, WSU
Jan. 2006 – Sept. 07, Raul Prezas (PhD student), Academic Committee, WSU

Visiting PhD students

Bing Dong, Sept. 2019 – Sept. 2020, Tongji University, China
Jie Feng, Oct. 2018 – Nov. 2019, Beijing Normal University, China

Visiting Scholar Mentorship

Li Guo, Sept. 2019 – Sept. 2020, Shanghai Foreign Studies University, China
Lihong Wang, Sept. 2018 – Sept. 2019, Tianjin Normal University, China
Heng Yin, Oct. 2018 – Oct. 2019, Sichuan University, China

Other graduate student research supervision

Jan. 2016 – May 2016, Alexandra Estrella, Advisor for master thesis, UT
Jan. 2016 – May 2016, Kimberly Konwinski, Keylene Ball, Advisor for AuD research project, UT
Jan. 2014 – May 2014, Madison Loffler, Advisor for AuD research project, UT
June 2012 – Dec. 2013, Rachael Gilbert (PhD student in Linguistics), Advisor for an independent study.
Sept. 2011 – May 2012, Allison Archer, Chia-chen Chen, Yu-fu Chen, and Sarah Simmons, Ashley Woodall (AuD students), Advisor for AuD research project, UT
Sept. 2010 – May 2011, Adriana Rodriguez (AuD student), Advisor for AuD research project, UT
Sept. 2010 – Dec. 2011, Ashley Woodall, Advisor for ASHA (American Speech-Language-Hearing Association) SPARC award.
Sept. 2008 – Aug. 2009, Jie Yang (PhD student), Advisor for an independent study.

Undergraduate student research supervision

Sep. 2017 – May 2019, Ling Zhong (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT
Jan. 2012 – May 2012, Katherine Morrow (Undergraduate student), Advisor for IE Pre-graduate school internship, 2nd place in the Longhorn Research Bazaar Research Week (poster presentations).
Jan. 2012 – May 2012, Jourdan Holder (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT

Sept. 2010 – May 2011, Madison Loffler (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT
Jan. 2010 – May 2010, Kayla O'Brien (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT

Sept. 2009 – May 2010, Amanda Rodriguez (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT

Oct. 2009, Ashley Woodall (Undergraduate student), Advisor, the Best Student Presentation Award, the 158th Acoustic Society of America meeting at San Antonio, TX

Jan. 2009 – May. 2009, Ashley Woodall (Undergraduate student), Advisor for Undergraduate Research Fellowship, UT

Committee Service

University Committees and Services

May 26, 2020, panelist, UT-Austin Texas Global Virtual Exchange Forum

Oct. 2018 – Aug. 2019, member, UT Global Virtual Exchange Program Review Committee

Sept. 2017 – Oct. 2017, reviewer for UT-Austin VPR Research and Creative Grants

Feb. 2017, reviewer for UT-Austin Undergraduate Research Fellowship

Sept. 2013 – Aug. 2014, chair, Information Technology Committee

Sept. 2012 – Aug. 2013, co-chair, Committee on Financial Aid to Students

Sept. 2011 – Aug. 2013, member, Information Technology Committee

Sept. 2010 – Aug. 2012, member, Committee on Financial Aid to Students

Chair of the subcommittee for the 2012-13 Ronald Brown Scholarship Review

Sept. 2010 – Aug. 2012, member (College of Communication representative), Faculty Council

College Committees

Aug. 2019 – present, member, Honors Advisory Council

Feb. 2019 – Nov. 2019 member, Search Committee for the Associate Dean for Diversity, Equity and Inclusion.

Sept. 2017 – present, member, Graduate Education Committee

Sept. 2016 – present, member, Global Engagement Committee

Sept. 2013 – present, member, Scholastic dismissal appeals committee

Sept. 2009 – May 2010, member, Faculty Research Committee

Departmental Committees

Sept. 2017 – present, chair, Doctoral Study Committee

Sept. 2017 – present, chair, Graduate Study Committee

Sept. 2017 – present, member, Extended Budget Council

Sept. 2016 – present, Departmental Review Chair of the IRB

Sept. 2018 – March 2019, member, Search Committee for a Neuro faculty position

Sept. 2017 – Feb. 2018, member, Search Committee for an Aud faculty position

Sept. 2016 – May 2017, member, Search Committee for CSD Chair position

Sept. 2014 – Mar. 2015, member, Search Committee for an Aud faculty position

Sept. 2013 – Aug. 2016, member, Undergraduate Study Committee

Sept. 2012 – Mar. 2013, member, Search Committee for a SLP faculty position

Sept. 2011 – present, member, Doctoral Study Committee

Sept. 2010 – May 2011, member, Chair Review Committee

Sept. 2009 – March 2010, member, Search Committee for a SLP faculty position

Sept. 2008 – March 2009, member, Search Committee for an Aud faculty position

Jan. 2008 – present, member, Audiology Study Committee

Professional Service

2020, the Communication Sciences and Disorders academic program review of Wayne State University, site visit in Oct., 2020.

2017 – 2019, Editorial Board Member, *Journal of Speech, Language and Hearing Research*.

2012 – 13, Guest Associate Editor for *Journal of Speech, Language and Hearing Research*.

2004 – present, Reviewers for

Journal of the Acoustical Society of America,

Journal of the Association for Research in Otolaryngology

Journal of Speech, Language and Hearing Research,

Ear and Hearing

American Journal of Audiology

Clinical Linguistics and Phonetics,

Bilingualism: Language and Cognition.

Brain and Language

Frontier in Psychology

Professional Association

1998 – present, Member of the Acoustical Society of America