YUAN CHAI

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Positions Held

Sept. 2023-	**University of Washington (UW), Department of Linguistics**
	Postdoctoral fellow & Teaching associate & Acting director of the phonetics lab
	Supervisor: Prof. Richard Wright
	Projects:
	Perception of glottalized phonation in Zapotec; Effect of H1 and H1–H2 on the perception of breathiness
Oct. 2022- Sept. 2023	**University of California Los Angeles (UCLA), Department of Linguistics**
	Postdoctoral fellow
	Supervisor: Prof. Patricia Keating
	Projects:
	Acoustic properties of different kinds of creaky voice; Documentation of Yateé Zapotec; Acoustics of breathy and falsetto voices

Education

2017-2022	**University of California San Diego (UCSD)**
	Ph.D. in Linguistics, September 2022
	Advisor: Prof. Marc Garellek
	Dissertation: *Phonetics and phonology of checked phonation, syllables, and tones*
	Dissertation committee: Prof. Marc Garellek (chair), Prof. Gabriela Caballero, Prof. Sarah Creel, Prof. Sharon Rose, Prof. Will Styler
2015-2017	**University of Colorado, Boulder (CUB)**
	M.A. in Linguistics, May 2017
	Advisor: Prof. Rebecca Scarborough
	MA thesis: *Predicting Discrimination Accuracy by Assimilation Pattern: How do Mandarin Speakers Discriminate English Vowels?*
2011-2015	**Beijing Normal University (BNU)**
	B.A. in English Language and Literature, July 2015

Publications

Accepted	**Chai, Y.** Ye, S. Perception of Xiapu Min checked syllables and tones in citation and sandhi forms. *The Journal of the Acoustical Society of America*
2023	**Chai, Y.** Fernández, A., & Mendez, B. 2023. Phonetics of glottalized phonations in Yateé Zapotec. *Proceedings of ICPhS 2023*.
2022	**Chai, Y.** & Garellek, M. 2022. On H1–H2 as an acoustic measure of linguistic phonation

type. The Journal of the Acoustical Society of America *152*, 1856. doi: 10.1121/10.0014175.

2022   **Chai, Y.** & Ye, S. 2022. Checked syllables, checked tones, and tone sandhi in Xiapu Min. *Languages* 7: 47. doi: 10.3390/languages7010047.

2022   **Chai, Y.**, Kunda, T., Rodríguez, A. & Rose, S. 2022. The prosody of declaratives and questions in Rere. In H. Kubozono, J. Ito & A. Mester (Eds.), *Prosody and Prosodic Interfaces*, Oxford: Oxford University Press. doi: 10.1093/oso/9780198869740.003.0011.

2022   Caballero, G., **Chai, Y.** & Garellek, M. 2022. Stress, tone, and intonation in Choguita Rarámuri. In H. Kubozono, J. Ito & A. Mester (Eds.), *Prosody and Prosodic Interfaces*, Oxford: Oxford University Press. doi: 10.1093/oso/9780198869740.003.0008.

2021   Garellek, M., **Chai, Y.**, Huang, Y. & Van Doren, M. 2021. Voicing of glottal consonants and non-modal vowels. *Journal of the International Phonetic Association*. doi: 10.1017/S0025100321000116.

2019   **Chai, Y.** 2019. The Source of Creak in Mandarin. *Proceedings of ICPhS 2019.*

Manuscripts

2024   **Chai, Y.** Perception of rearticulated and checked phonations in Sierra Norte Zapotec: the effect of glottalization position and duration.

2021   **Chai, Y.** Predicting discrimination accuracy by assimilation pattern, overlap score, and acoustic properties. *UC San Diego: San Diego Linguistic Papers* 9*.* Available online: https://escholarship.org/uc/item/44b0m25r

2021   **Chai, Y.** Predicting discrimination accuracy by assimilation pattern, overlap score, and acoustic properties. *UC San Diego: San Diego Linguistic Papers* 8*.* Available online: https://escholarship.org/uc/item/8mg0x5pb

in prep.   Huaute, I. & **Chai, Y.** Cahuilla. *Journal of the International Phonetic Association.*

Invited Presentations

Mar. 2023   What does it mean to be "checked": case studies of Yateé Zapotec and Xiapu Min. Invited colloquium, Department of Foreign Languages & Literatures, National Yang Ming Chiao Tung University.

Feb. 2023   What does it mean to be "checked": case studies of Yateé Zapotec and Xiapu Min. Invited colloquium, Department of Linguistics, University of North Texas.

Feb. 2023   What does it mean to be "checked": case studies of Yateé Zapotec and Xiapu Min. Invited colloquium, Department of Linguistics, University of Hawaiʻi at Mānoa.

Conference Presentations

2025   **Chai, Y.** *Perception of checked and rearticulated phonations: Effect of duration and glottalization phasing.* Study of the Indigenous Languages of the Americas

2024 **Chai, Y.** & Keating, P. *Reconsidering the formant correction formula in VoiceSauce.* 187th Meeting of the Acoustical Society of America.

2024 **Chai, Y.** *Effect of glottalization position and duration in perceiving glottalized phonation in Zapotec.* Sound Systems of Latin America 4.

2024 **Chai, Y.** *The phonological status of glottalization in Zapotec.* Sound Systems of Latin America 4.

2024 **Chai, Y.,** Bhagavatula, P., Wong, S., & Keating, P. *Spectral energy properties of non-modal phonations.* CorpusPhon.

2024 **Chai, Y.,** Fernández, A., & Mendez, B. *The role of phonation and tone in TAM in Yateé Zapotec.* Society for the Study of the Indigenous Languages of the Americas 2024 Annual Meeting.

2023 **Chai, Y.,** Fernández, A., & Mendez, B. *Phonetics of glottalized phonations in Yateé Zapotec.* 20th International Congress of the Phonetic Sciences.

2023 Keating, P., Garellek, M., Kreiman, J. & **Chai, Y**. *Acoustic properties of subtypes of creaky voice.* 184th Meeting of Acoustical Society of America.

2023 **Chai, Y.,** Fernández, A., & Mendez, B. *Acoustics of the creaky phonations in Yateé Zapotec.* 184th Meeting of Acousical Society of America.

2021 **Chai, Y.** & Ye, S. *Perception of checked tones in Xiapu Min.* 181st Meeting of Acoustical Society of America. doi: https://doi.org/10.1121/10.0008390.

2020 **Chai, Y.** *The role of tone in TAM, verb class, and subject agreement in Rere.* Annual Conference on African Linguistics 51 (canceled due to covid).

2019 **Chai, Y.** & Garellek, M. *Using H1 instead of H1–H2 as an acoustic correlate of glottal constriction.* 178th Meeting of Acoustical Society of America.
Chai, Y. & Ye, S. *The neutralization of Xiapu Min tones in disyllabic tone sandhi forms.* ASA 2019. 178th Meeting of Acoustical Society of America.

2019 **Chai, Y.** *The Source of Creak in Mandarin.* 19th International Congress of Phonetic Sciences.

2019 **Chai, Y.** *The Source of Creak in Mandarin: Utterance Position or F0?* Linguistic Society of America 2018 Annual Meeting.

2018 **Chai, Y.** *Less Proficient, More Gestures?* 44th Annual Meeting of the Berkeley Linguistics Society.

Fieldwork Experience

2020-now	Yateé Zapotec: Oaxaca, Mexico; Los Angeles, CA (on-site and remote)
2019-2021	Xiapu Min: Xiapu, Fujian, China (on-site and remote)
2019-2020	Rere: San Diego, CA (on-site and remote)

Teaching Experience

Instructor

2024 & 2025	LING 450: Introduction to Linguistic Phonetics
Winter 2025	LING 453/553: Experimental Phonetics
Spring 2024	LING 471: Computational Methods for Linguists
Winter 2021	LIGN 8: Languages and Cultures of America

Teaching assistant

2019-2020	LIDS 19: Directed Study-Language. Supervisor: Prof. Grant Goodall
Spring 2021	LIGN 101: Introduction/Study to Language. Instructor: Prof. Will Styler
Fall 2018, 20	LIGN 110: Phonetics. Instructor: Prof. Marc Garellek
2017-2020	LIGN 8: Languages and Cultures of America. Instructors: Profs. Justin Mcintosh, Priyanka Biswas, Gabriela Caballero
Winter 2018	LIGN 112: Speech Sounds and Speech Disorders. Instructor: Prof. Marc Garellek
Fall 2016	LING 3100: Language Sounds Structures. Instructor: Prof. Mans Hulden

Mentoring

Winter & Spring & Fall, 2024	Hayley Chu, Aurora Cong, Shannon Kawalec, Leonardo Kruse, Yilin Liu, Emily Rogers, Max Vu, Avery Wall, Yue Xu, LING 499A on "Eye-tracking study for perception and production of consonant clusters"
Fall, 2023	Amelia Nguyen, Amandisa Cady, LING 499A on "The role of spectral energy in the perception of voice quality"
Fall, 2023	Minnah Tanzeen, Abigail Nussbaum, Elliot K Okimoto, LING 499A on "Field research on Yateé Zapotec"
Fall 2023 & Winter 2024	Serene Wong, Padmini Bhagavatula, LING 499A on "Acoustics of breathy and falsetto voices"
Winter, Spring 2022	Grace Kim, Kaylina Moreno, Marilyn Sun, Chunxiao Zhang, Zhien Zhang, LIGN 199 (Independent Research) on "Survey of checkedness". Faculty advisor: Prof. Emily Clem
Winter, Spring, Fall 2021	Grace Kim, Eliana Marvizon, Kaylina Moreno, Lesly Nunez, Daniela Vasquez, Zhien Zhang, LIGN 199 (Independent Research) on "Yateé Zapotec documentation" project and "Survey of checkedness" project. Faculty advisor: Prof. Emily Clem

Research assistantships

2018	Rarámuri fieldwork project. Supervisors: Profs. Gabriela Caballero and Marc Garellek
2015-2016	Phonetic training strategies for non-native speech perception. Supervisor: Dr. Kate Phelps Ridgeway

Service

2024	Organizer of the conference of Sound System of Latin America 4 (SSLA 4)
2024-2025	Supervising lab director of the Department of Linguistics at the University of Washington
2020-2021	Editor of San Diego Linguistics Papers, UC San Diego
2017-2020	Department representative at Graduate Student Association, UC San Diego
2017, 18	Instructor at Oasis English Summer Camp at Xiapu No.1 High School, China

Reviewing

2024, 22, 19	The Journal of the Acoustical Society of America
2023	Isogloss
2023	Journal of the International Phonetic Association

Awards

2024	Yateé Zapotec data for Numeralbank, Lexibank, Max Planck Institute for Evolutionary Anthropology, and the Endangered Languages Documentation Programme; $5252
2023	Postdoctoral Research and Travel Grant, UW; $6000
2022	Postdoctoral Research Grant, UCLA; $5000
2022	Graduate Research and Travel Awards, International Institute, UCSD; $1800
2021	First place Best Student Paper Award at 181st Meeting of the Acoustical Society of America; $300
2021, 2019	Department of Linguistics research fund; $1300
2021	2021-22 Liz Bates Research Award; $225
2019	TA Excellence Award, UCSD Department of Linguistics
2019	Friends of International Center Scholarship, UCSD; $2000
2015	Honor Graduate, Beijing, China
2014	National Scholarship, Beijing Normal University
2014	First-Class Academic Scholarship, Beijing Normal University
2014	Honor Roll Student, Beijing Normal University
2012-2013	First-Class Academic Scholarship, Beijing Normal University
2011-2012	Third-Class Academic Scholarship, Beijing Normal University

Skills

Programming	R; Python; HTML; CSS; JavaScript; Praat; MATLAB
Software	Praat; ELAN; VoiceSauce; PsychoPy; UCLA Voice Synthesizer

Language Proficiency

Mandarin (native)	English (fluent)	French (intermediate)
Spanish (basic)	Xiapu Min (research)	Rere (research)
Yateé Zapotec (research)	Choguita Rarámuri (research)	Cahuilla (research)