

YUAN CHAI

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Position Held

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- Sept. 2023- **University of Washington (UW), Department of Linguistics**
Postdoctoral fellow & Teaching associate & Acting director of the phonetics lab
Supervisor: Prof. Richard Wright
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- Oct. 2022- **University of California Los Angeles (UCLA), Department of Linguistics**
Sept. 2023 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

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- 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

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- 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 Choguira 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

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- 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

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- 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 Hawai‘i at Mānoa.

Conference Presentations

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- 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 Acoustical 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. doi:

<https://doi.org/10.1121/1.5137416>.

Chai, Y. & Ye, S. *The neutralization of Xiapu Min tones in disyllabic tone sandhi forms*.

ASA 2019. 178th Meeting of Acoustical Society of America. doi:

<https://doi.org/10.1121/1.5137417>.

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- Yateé Zapotec: 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 of record

Spring 2024 LING 450: Introduction to Linguistic Phonetics

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

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 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

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

2023	Isogloss
2023	Journal of the International Phonetic Association
2022, 2019	The Journal of the Acoustical Society of America

Awards

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; HTML; CSS; JavaScript; Python; Praat; SQL
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)