

YUAN CHAI

Email: yuanchai@uw.edu

Website: <https://yuanchaiyc.github.io/website/>

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

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

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

- 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

- 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 Hawai‘i at Mānoa.

Conference Presentations

- 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 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

- 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, Grace Kim, Kaylina Moreno, Marilyn Sun, Chunxiao Zhang, Zhien Zhang, LIGN 199
Spring 2022 (Independent Research) on “Survey of checkedness”.

Faculty advisor: Prof. Emily Clem

Winter, Grace Kim, Eliana Marvizon, Kaylina Moreno, Lesly Nunez, Daniela Vasquez, Zhien
Spring, Fall Zhang, LIGN 199 (Independent Research) on “Yateé Zapotec documentation” project and
2021 “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)