

Fenqi Wang

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Research Interests

Phonetics, Psycho-/Neurolinguistics, and Computational Linguistics

Academic Appointments

2023 - present **Term Lecturer**
Department of Linguistics, Simon Fraser University, Canada

2023 - present **Postdoctoral Fellow**
Department of Linguistics, Simon Fraser University, Canada
Supervisors: Yue Wang & Henny Yeung

Education

2023 **Ph.D. in Linguistics**, University of Florida, USA
Dissertation: *The production and perception of vocal emotions in American English and Mandarin Chinese: A cross-linguistic study with computational modeling*
Committee Chair: Ratree Wayland
Committee Members: Caroline Wiltshire, Sarah Moeller, Yonghee Oh, Richard Wang

2020 **M.A. in Linguistics**, University of Kansas, USA
Thesis: *The effect of pitch accent on the perception of English lexical stress by native listeners*
Committee Chair: Annie Tremblay
Committee Members: Allard Jongman, Jie Zhang

2017 **M.A. in English Language & Literature**, China University of Geosciences (Wuhan), China

2014 **B.A. in English Translation & Interpretation**, Wuhan University of Engineering Science, China

Grants

2024-2026 Project Title: Creating adaptive vocal interfaces in human-AI interactions
Funding: SFU FASS Breaking Barriers Grant (Internal)
Total: CA\$70,000
Role: Co-investigator (PI: Yue Wang; Co-PIs: Angelica Lim, Henny Yeung, & Paige Tuttosi)

2024 - 2026 Project Title: Consuming text and audio fake news in a first and second language
Funding: SFU FASS Kickstarter Seed Grant (Internal)
Total: CA\$14,167
Role: Co-investigator (PI: Henny Yeung; Co-PIs: Maite Taboada & Yue Wang)

Under review Project Title: Modeling the audio-visual features of emotion expressions in L2 English
Funding: SSHRC Insight Development Grant (External)
Total: CA\$43,916
Role: Principal Investigator (Co-PIs: Henny Yeung & Yue Wang)

Publications

Manuscripts Under Review/In Revision

- Under review Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, Rahul Sengupta, & Ratre Wayland. Quantifying consonant weakening in Parkinson's disease using a bi-directional recurrent neural network: Insights from Colombian Spanish-speaking patients.
- Under review Delin Deng, **Fenqi Wang**, & Ratre Wayland. Nasalization reduction in the discourse marker *genre* in Swiss French.
- In revision **Fenqi Wang**, Delin Deng, Ratre Wayland, H. Henny Yeung, & Yue Wang. An investigation of the phonetic variation of the word-initial [l] and [n] in accented Mandarin.
- In revision Kevin Tang, Ratre Wayland, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Evaluating the consistency of lenition measures: neural networks' posterior probability, intensity velocity and duration.

Journal Articles

- 2024 **Fenqi Wang**, Delin Deng, Kevin Tang, & Ratre Wayland. The effect of pitch accent on the perception of English lexical stress: Evidence from English and Mandarin Chinese listeners. *Languages*, 9(3), 87. <https://doi.org/10.3390/languages9030087>
- 2023 Delin Deng & **Fenqi Wang**. A variationist analysis of *quoi* in French native speech: A corpus-based study. *Linguistics Vanguard*. <https://doi.org/10.1515/lingvan-2023-0027>
- 2023 Delin Deng, **Fenqi Wang**, & Ratre Wayland. The pitch contour of the French discourse marker *donc*: A corpus-based study using generalized additive mixed-effects modeling. *Journal of French Language Studies*. <https://doi.org/10.1017/S0959269523000121> [co-first author]
- 2023 Ratre Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Quantitative acoustic versus deep learning metrics of lenition. *Languages*, 8(2), 98. <https://doi.org/10.3390/languages8020098> [co-first author]
- 2023 Kevin Tang, Ratre Wayland, **Fenqi Wang**, Sophia Vellozzi, Rahul Sengupta, & Lori Altmann. From sonority hierarchy to posterity probability as a measure of lenition: The case of Spanish stops. *Journal of the Acoustical Society of America*. <https://doi.org/10.1121/10.0017247>
- 2022 Delin Deng & **Fenqi Wang**. Review of *Teacher Transition into Innovative Learning Environments: A Global Perspective*. *Australian Journal of Applied Linguistics*, 5(2), 88-91. <https://doi.org/10.29140/ajal.v5n2.721>
- 2022 Shuang Liu, John Schwieter, **Fenqi Wang**, & Huanhuan Liu. An event-relation potential study of self-positivity bias in native and foreign language contexts. *Psychophysiology*, e14145. <https://doi.org/10.1111/psyp.14145>
- 2022 Tingting Guo, **Fenqi Wang**, Ningning Cao, & Huanhuan Liu. Conflicts influence affects: An fMRI study of emotional effects in a conflict task. *Cognitive Neurodynamics*, 1-11. <https://doi.org/10.1007/s11571-022-09790-6>
- 2021 Huanhuan Liu, Wanqing Li, Mingyue Zuo, **Fenqi Wang**, Zibin Guo, & John Schwieter. Cross-task adaptation effects of bilingual language control on cognitive control: A dual-brain EEG examination of simultaneous production and comprehension. *Cerebral Cortex*, bhab411. <https://doi.org/10.1093/cercor/bhab411>
- 2020 Man Zhang, Xin Wang, **Fenqi Wang**, & Huanhuan Liu. Effect of cognitive style on language control during joint language switching: An ERP study. *Journal of Psycholinguistic Research*, 49(3), 383-400. <https://doi.org/10.1007/s10936-019-09682-7>

Proceedings

- In press Delin Deng & **Fenqi Wang**. The intonation of the French discourse marker *donc* with different pragmatic functions. In *Proceedings of the 56th Linguistics Colloquium*.
- In press Ratre Wayland, Kevin Tang, Sophia Vellozzi, **Fenqi Wang**, & Rahul Sengupta. Measuring gradient effects of alcohol on speech with neural networks' posterior probability of phonological features. In *Proceedings of the 20th International Congress of the Phonetic Sciences*. <https://psyarxiv.com/4wtc8/>

- 2023 Ratree Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Neural networks' posterior probability as measure of effects of alcohol on speech. In *Proceedings of Meetings on Acoustics* (Vol. 51, No. 1). AIP Publishing. <https://doi.org/10.1121/2.0001764>
- 2022 Ratree Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, Rahul Sengupta, & Lori Altmann. Lenition measures: Neural networks' posterior probability versus acoustic cues. In *Proceedings of Meetings on Acoustics* (Vol. 50, No. 1). AIP Publishing. <https://doi.org/10.1121/2.0001728>

Conference Presentation

Oral Presentations

- 2021 **Fenqi Wang**, Delin Deng, & Ratree Wayland. The ongoing sound change between /l/ and /n/ in Gan Chinese: Random forest classification. *The 181st Meeting of Acoustical Society of America* (ASA), Seattle, USA.
- 2021 **Fenqi Wang**, Delin Deng, Qingcheng Zeng, Ratree Wayland, & Kevin Tang. A corpus study of the production of syllable-initial /l/ and /n/ in Gan-accented Mandarin: Random forest classification. *The 49th Meeting of New Ways of Analyzing Variation* (NNAV), Austin, USA (virtual).
- 2021 **Fenqi Wang** & Shiyi Wang. The emergence of /l/ in Chongyang Gan Chinese: OT learning with GLA. *The 54th International Conference on Sino-Tibetan Languages and Linguistics* (ICSTLL54), Chengdu, China (virtual).
- 2021 **Fenqi Wang**. Merger of /l/ and /n/ in Chongyang Gan Chinese: OT analysis and GLA. *The 34th Paris Meeting on East Asian Linguistics* (JLAO34), Paris, France (virtual).
- 2021 Delin Deng & **Fenqi Wang**. The intonation of the French discourse marker *donc* with different pragmatic functions. *Disfiller 2021*, Bristol, UK (virtual).
- 2020 Delin Deng & **Fenqi Wang**. The intonation of the French discourse marker *donc* with different pragmatic functions. *The 56th Linguistics Colloquium*, Mainz, Germany (virtual).

Posters

- 2024 **Fenqi Wang**, Andrew Cheng, Farzana Ali, Antonius Tam, & Henny Yeung. An investigation of infant- and adult-directed speech in a second language. *The International Congress of Infant Studies* (ICIS), Glasgow, UK.
- 2024 **Fenqi Wang**, Jetic Gu, Meagan Durana, Chihiro Mabohang, Dawn Behne, Allard Jongman, Joan Sereno, & Yue Wang. Real-time speech adaptations in conversations between human interlocutor and AI confederate. *The 186th Meeting of Acoustical Society of America* (ASA), Ottawa, Canada.
- 2024 Jetic Gu, **Fenqi Wang**, Ivan Fong, Samuel To, Dawn Behne, Allard Jongman, Joan Sereno, & Yue Wang. A new experimental design to study speech adaptations in spontaneous human-computer conversations. *The 186th Meeting of Acoustical Society of America* (ASA), Ottawa, Canada.
- 2024 Ivan Fong, **Fenqi Wang**, Kira Chan, Tyne Johnson-Dhillon, Jadeyn Trasolini, Dawn Behne, Allard Jongman, Joan Sereno, & Yue Wang. Phonetic adaptation in conversation: the case of Cantonese tone merging. *The 186th Meeting of Acoustical Society of America* (ASA), Ottawa, Canada.
- 2024 Han Zhang, Morgan Glover, **Fenqi Wang**, Xizi Deng, Dawn Behne, Allard Jongman, Joan Sereno, & Yue Wang. Speech adaptation in conversation: Effects of segment cue-weighting strategy for non-native speakers. *The 186th Meeting of Acoustical Society of America* (ASA), Ottawa, Canada.
- 2023 Ratree Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Neural Network-Based Measure of Consonant Lenition in Parkinson's Disease. *The 185th Meeting of Acoustical Society of America* (ASA), Sydney, Australia.
- 2023 Kevin Tang, Ratree Wayland, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Quantitative Acoustic versus Deep Learning Metrics of Lenition. *The 19th Meeting of Phonetics & Phonology in German-speaking Countries*, Bern, Switzerland.

- 2023 **Fenqi Wang**, Delin Deng, & Ratree Wayland. Thing or sing: Modeling the phonetic variation of the interdental fricative /θ/ in accented English. *The 184th Meeting of Acoustical Society of America (ASA)*, Chicago, USA.
- 2023 **Fenqi Wang** & Ratree Wayland. Acoustic properties of vocal emotions in American English and Mandarin Chinese. *The 184th Meeting of Acoustical Society of America (ASA)*, Chicago, USA.
- 2023 Ratree Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Neural networks' posterior probability as measure of effects of alcohol on speech. *The 184th Meeting of Acoustical Society of America (ASA)*, Chicago, USA.
- 2022 **Fenqi Wang**, Delin Deng, & Ratree Wayland. The acoustic profiles of vocal emotions in Japanese: A corpus study with generalized additive mixed modeling. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.
- 2022 **Fenqi Wang**, Delin Deng, & Ratree Wayland. Modeling retroflex fricative variation in accented Mandarin. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.
- 2022 Ratree Wayland, Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, Rahul Sengupta, & Lori Altmann. Lenition measures: Neural networks' posterior probability versus acoustic cues. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.
- 2022 Rachel Meyer, Ratree Wayland, & **Fenqi Wang**. Measuring second language acquisition of Spanish lenition. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.
- 2022 **Fenqi Wang**, Ratree Wayland, & Kevin Tang. Native English listeners' processing of pitch accent in the perception of English lexical stress. *The 96th Annual Meeting of Linguistic Society of America (LSA)*, Washington, D.C., USA.
- 2022 Delin Deng & **Fenqi Wang**. The Affrication of word-initial /ʒ/ in French Native Speech. *The 96th Annual Meeting of Linguistic Society of America (LSA)*, Washington, D.C., USA.
- 2021 **Fenqi Wang**, Kevin Tang, & Ratree Wayland. Native English listeners' processing of pitch accent in the perception of English lexical stress. *Florida Psycholinguistic Meeting*, Tallahassee, USA (virtual).
- 2021 **Fenqi Wang**. An acoustic study of English vowels produced by Chinese learners of English. *UF Graduate Research Blitz*, Gainesville, USA.
- 2021 Jun Lyu & **Fenqi Wang**. Compound or single word: Phonological analysis of names in Shanghai Chinese. *The 33rd Meeting of the North American Conference on Chinese Linguistics (NACCL-33)*, Chicago, USA (virtual).
- 2021 Jun Lyu, **Fenqi Wang**, & Elsi Kaiser. Antecedent prominence and the Chinese reflexive *ziji*. *The 45th Annual Penn Linguistics Conference (PLC 45)*, Philadelphia, USA (virtual).
- 2021 **Fenqi Wang**, Kevin Tang, & Jun Lyu. The effect of pitch accent on the perception of English lexical stress by native and non-native listeners. *The 95th Annual Meeting of Linguistic Society of America (LSA)*, USA (virtual).
- 2019 Jun Lyu, **Fenqi Wang**, Dawei Lu, & Yiyuan Chen. Locality or recency: A story of two Chinese reflexives. *The 50th Annual Meeting of the North East Linguistic Society (NELS 50)*, Boston, USA.

Invited Talks

- 2023 **Fenqi Wang**. Recognizing emotions in speech: Humans vs. machines. Talk invited by Dr. Delin Deng, Department of Linguistics, University of Florida, USA.
- 2023 **Fenqi Wang**. Recognizing emotions in speech: Humans vs. machines. Talk invited by Dr. Sarah Moeller, Department of Linguistics, University of Florida, USA.
- 2023 **Fenqi Wang**. Dissertation writing and plan for graduate school. Talk invited by Dr. Edith Kaan, Department of Linguistics, University of Florida, USA.
- 2022 **Fenqi Wang**. An introduction to Montreal Forced Aligner. Workshop hosted by Phonetics and Phonology Reading Group, Department of Linguistics, University of Florida, USA.

- 2021 **Fenqi Wang.** The effect of pitch accent on the perception of English lexical stress: Evidence from native listeners. Colloquium talk invited by the Department of Linguistics, University of Florida, USA.
- 2021 **Fenqi Wang.** The analysis of the production of syllable-initial /l/ and /n/ in Gan-accented Mandarin. Talk invited by the Department of Linguistics, University of Florida, USA.
- 2021 **Fenqi Wang.** The application of random forest classification on the production of syllable-initial /l/ and /n/ in Gan-accented Mandarin. Talk invited by Dr. Fei Chen, Hunan University, Hunan, China.
- 2021 **Fenqi Wang.** Perceptual assimilation model and speech learning model. Talk invited by Yihan Chen in *LIN4721 Second Language Acquisition*, Department of Linguistics, University of Florida, USA.

Research Experience

- 2023 - present Language and Brain Lab, Simon Fraser University, Canada
 Supervisor: Yue Wang
 Project: Adaptations in conversation: engaging voices, faces, brains and machines
 Role: Post-doctoral fellow
 Duties: Supervised data collection, analyzed data, drafted manuscript, and mentored undergraduate and graduate students
- 2023 - present Language Learning and Development Lab, Simon Fraser University, Canada
 Supervisor: Henny Yeung
 Project: Linguistic analysis of infant- and child-directed speech in one's first and second languages
 Role: Post-doctoral fellow
 Duties: Designed experiments, supervised data collection, analyzed data, drafted manuscript, and mentored undergraduate and graduate students
- 2020 - 2023 Speech, Lexicon and Modeling Lab, University of Florida, USA
 Supervisors: Ratre Wayland & Kevin Tang
 Project: Smart electropalatography for linguistic and medical applications
 Role: Graduate research assistant
 Duties: Collected data, analyzed data, and drafted manuscript
- 2017 - 2018 Speech and Language Sciences Lab, Hong Kong Polytechnic University, China
 Supervisor: Yu-Yin Hsu
 Project: Lexical repetition and persistence of priming effects in Chinese comprehension
 Role: Research assistant
 Duties: Conducted eye-tracking experiments and analyzed data
- 2017 - 2018 Research Center of Brain and Cognitive Neuroscience, Liaoning Normal University, China
 Supervisor: Huanhuan Liu
 Project: General cognitive abilities and language switch of bilinguals
 Role: Research intern
 Duties: Conducted ERP experiments and processed ERP data using ERPLAB

Teaching Experience

- 2024 *LING330 Phonetics*
 2024 Summer
 Simon Fraser University
 Role: Instructor
- 2023 *LING401 Topics in Phonetics*

- 2023 Fall
Simon Fraser University
Role: Instructor
- 2023 *IDS2935 Language and Emotion*
2023 Summer
University of Florida
Role: Graduate teaching assistant
- 2021 - 2023 *The Sound Structure of English (Online)*
2021 Spring, Summer, Fall; 2022 Spring, Summer, Fall
Harbour Education Co. Ltd.
Role: Teaching fellow
- 2022 *Educational Psychology: Education, School and Society (Online)*
2022 Summer
Harbour Education Co. Ltd.
Role: Teaching fellow
- 2018 - 2020 *Ling106 Introductory Linguistics*
2018 Fall, 2019 Spring & Fall, 2020 Spring
University of Kansas
Role: Graduate teaching assistant
- 2018 *American Spoken English, TOEFL, and IELTS*
Meten International Education Corporation
Role: Instructor
- 2017 *Neurology and Neuroscience*
University of Hong Kong
Role: Teaching assistant

Awards

- 2022 Graduate Student Travel Fund, College of Liberal Arts and Sciences, University of Florida, \$300.
- 2022 Graduate Travel Fund, Department of Linguistics, University of Florida, \$450.
- 2021 Graduate Travel Fund, Department of Linguistics, University of Florida, \$450.
- 2020 - 2023 Graduate Research Assistantship, Department of Linguistics, University of Florida.
- 2020 Clark Coan Award for International Student Leadership, University of Kansas, \$500.
- 2019 Graduate Scholarly Presentation Travel Fund, University of Kansas, \$500.
- 2018 - 2020 Graduate Teaching Assistantship, Department of Linguistics, University of Kansas.
- 2017 Tin Ka Ping Visiting Fellowship, University of Hong Kong, \$800.
- 2016 National Graduate Scholarship, China University of Geosciences (Wuhan), \$3,000.
- 2014 - 2016 Graduate Student Scholarship, China University of Geosciences (Wuhan), \$1,200.
- 2013 National English Contest for College Students Majoring in English, First Prize, Wuhan University of Engineering Science.
- 2011 National Aspiration Scholarship, Wuhan University of Engineering Science, \$1,200.

Student Supervision

Undergraduates:

- 2023 - present Meagan Durana, Language and Brain Lab, Simon Fraser University
- 2023 - present Chihiro Mabohang, Language and Brain Lab, Simon Fraser University

- 2023 - present Jiyun Choi, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Pritika Purba, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Sahibnoor Dhami, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Eryn Ng, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Marissa Zhu, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Alexandra Samosseiko, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Daniela Garcia, Language Learning and Development Lab, Simon Fraser University
- 2023 - present Rasanpreet Dhami, Language Learning and Development Lab, Simon Fraser University
- 2021 - 2023 Sophia Vellozzi, Speech, Lexicon, and Modeling Lab, University of Florida

Research Skills

Programming languages:

- R (proficient), Python (proficient), MATLAB (basic)

EEG-related:

- EEGLAB/ERPLAB (proficient), Neuroscan (basic), Curry 8 (basic)

fMRI-related:

- FreeSurfer (basic), SPM 12 (basic), DPABI (basic)

Others:

- Praat (proficient), Paradigm (intermediate), PsychoPy (proficient), FindingFive (proficient), Linux (proficient), L^AT_EX (proficient)

Languages

Native	Mandarin Chinese & Gan Chinese
Near-native	English
Basic	French

Memberships

- 2021 - Acoustical Society of America
- 2020 - Association for Laboratory Phonology
- 2019 - Linguistic Society of America
- 2017 - 2018 Society for the Neurobiology of Language