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# Fenqi Wang

## Research Interests

Phonetics, Psycho-/Neurolinguistics, and Computational Linguistics

## Academic Appointments

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

## Education

- 2020 - 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 and Literature**, China University of Geosciences (Wuhan), China
- 2014 **B.A. in English Translation and Interpretation**, Wuhan University of Engineering Science, China

## Publications

### Journal Articles

- In press Delin Deng & **Fenqi Wang**. A variationist analysis of *quoi* in French native speech: A corpus-based study. *Linguistics Vanguard*. [co-first author]
- 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>
- 2023 Huanhuan Liu, Zibin Guo, Yishan Jiang, John Schwieter, & **Fenqi Wang**. Neural circuits underlying language control and modality control in bilinguals: An fMRI study. *Neuropsychologia*. <https://doi.org/10.1016/j.neuropsychologia.2022.108430>
- 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> [co-first author]
- 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 Dongxue Liu, John Schwieter, **Fenqi Wang**, Li Mu, & Huanhuan Liu. Uncovering the effects of bilingual language control on rational decisions: An ERP study. *Psychophysiology*, e14066. <https://doi.org/10.1111/psyp.14066>
- 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>
- 2022 Linyan Liu, John Schwieter, **Fenqi Wang**, & Huanhuan Liu. First and second languages differentially affect rationality when making decisions: An ERP study. *Biological Psychology*, 108265. <https://doi.org/10.1016/j.biopsycho.2022.108265>
- 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 Ratree 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>

### Manuscripts Under Review/In Revision

Under review Kevin Tang, **Fenqi Wang**, Sophia Vellozzi, Rahul Sengupta, & Ratree Wayland. Quantifying consonant weakening in Parkinson's disease using a bi-directional recurrent neural network: Insights from Colombian Spanish-speaking patients. *Journal of Movement Disorders*.

In revision Kevin Tang, Ratree Wayland, **Fenqi Wang**, Sophia Vellozzi, & Rahul Sengupta. Evaluating the effectiveness of lenition measures: neural networks' posterior probability, intensity velocity and duration. *JASA Express Letters*.

In revision **Fenqi Wang**, Kevin Tang, Ratree Wayland, & Delin Deng. The effect of pitch accent on the perception of English lexical stress: Evidence from native and non-native listeners.

### Manuscripts in Preparation

In prep. **Fenqi Wang**. Speech emotion recognition using support vector machines and convolutional neural network.

In prep. **Fenqi Wang** & Ratree Wayland. The acoustic profiles of vocal emotions in American English and Mandarin Chinese.

In prep. **Fenqi Wang**, Delin Deng, & Ratree Wayland. An investigation of the phonetic variation of the word-initial /l/ and /n/ in accented Mandarin.

In prep. Ryan Bennett, Kevin Tang, Juan Ajsivinac Sian, & **Fenqi Wang**. Perceptual similarity in the stop consonants of Kaqchikel.

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## Conference Presentation

### Oral Presentations

- 2021 **Fenqi Wang**, Delin Deng, & Ratreë 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, Ratreë 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 (NWAV)*, 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 (JLA034)*, 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

- 2023 **Fenqi Wang**, Delin Deng, & Ratreë 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** & Ratreë Wayland. Acoustic properties of vocal emotions in American English and Mandarin Chinese. *The 184th Meeting of Acoustical Society of America (ASA)*, Chicago, USA.
- 2023 Ratreë 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, & Ratreë 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, & Ratreë Wayland. Modeling retroflex fricative variation in accented Mandarin. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.
- 2022 Ratreë 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, Ratreë Wayland, & **Fenqi Wang**. Measuring second language acquisition of Spanish lenition. *The 183rd Meeting of Acoustical Society of America (ASA)*, Nashville, USA.

- 2022 **Fenqi Wang**, Rtree 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, & Rtree 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 hosted 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 hosted 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.
- 2020 **Fenqi Wang.** Data management, data visualization, and text mining using R, Workshops hosted by Speech, Lexicon and Modeling Lab, Department of Linguistics, University of Florida, USA.

## Research Experience

- 2021 - 2023 Speech, Lexicon and Modeling Lab, University of Florida, USA  
 Supervisor: Prof. Ratre Wayland  
 Project: Smart electropalatography for linguistic and medical applications  
 (NSF Grant: 2037266)  
 Role: Graduate research assistant  
 Duties: Analyzed data using R and Python and applied computational models
- 2020 - 2021 Speech, Lexicon and Modeling Lab, University of Florida, USA  
 Supervisor: Dr. Kevin Tang  
 Project: Chinese speech corpus with Montreal Forced Aligner  
 The effect of pitch accent on the perception of English lexical stress  
 Role: Graduate research assistant  
 Duties: Analyzed data using R and Python and applied computational models
- 2017 - 2018 Speech and Language Sciences Lab, Hong Kong Polytechnic University, China  
 Supervisor: Dr. 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 using R
- 2017 - 2018 Lab for Communication Science, University of Hong Kong, China  
 Supervisor: Prof. Brendan Weekes  
 Project: Foreign language anxiety and domain word learning in tertiary students  
 Role: Research assistant  
 Duties: Analyzed pilot data using R
- 2017 - 2018 Research Center of Brain and Cognitive Neuroscience, Liaoning Normal University, China  
 Supervisor: Dr. Huanhuan Liu  
 Project: General cognitive abilities and language switch of bilinguals  
 Role: Research intern  
 Duties: Conducted ERP experiments and preprocessed ERP data using ERPLAB

## Teaching Experience

- 2023 *LING401 Topics in Phonetics*  
2023 Fall  
Simon Fraser University  
Role: Instructor
- 2023 *IDS2935 Language and Emotion*  
2023 Summer  
University of Florida  
Supervisor: Dr. Ann Wehmeyer  
Role: Graduate teaching assistant
- 2021 - 2023 *The Sound Structure of English (Online)*  
2021 Spring, Summer, Fall; 2022 Spring, Summer, Fall  
Harbour Education Co. Ltd.  
Co-instructor: Prof. John Harris (UCL)  
Role: Teaching assistant & instructor
- 2022 *Educational Psychology: Education, School and Society (Online)*  
2022 Summer  
Harbour Education Co. Ltd.  
Co-instructor: Prof. Geoff Hayward (UCambridge)  
Role: Teaching assistant & instructor
- 2022 *American Revolution: Politics, Society and Economic Life (Online)*  
2022 Spring  
Harbour Education Co. Ltd.  
Co-instructor: Dr. Amy Dru Stanley (UChicago)  
Role: Teaching assistant & instructor
- 2018 - 2020 *Ling106 Introductory Linguistics*  
2018 Fall, 2019 Spring & Fall, 2020 Spring  
University of Kansas  
Supervisor: Dr. Philip Duncan and Prof. Alison Gabriele  
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  
Supervisor: Prof. Brendan Weekes  
Role: Teaching assistant

## Student Advising

### While at Harbour Education Co. Ltd.

- 2022 Qi Yu. The effect of proficiency on the pronunciation accuracy of Chinese learners of French: A case study of /ã/. *The 3rd International Conference on Educational Innovation and Philosophical Inquiries (ICEIPI 2022)*, Stanford, USA (virtual).
- 2022 Bohan Wang. The environment input in second language acquisition of phonetic details: The GOOSE fronting among Chinese English learners. *The 3rd International Conference on Language, Communication and Culture Studies (ICLCCS 2022)* (virtual).

## 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.

## Professional Service

- 2022 Helper, *R for Ecologists Workshop*, University of Florida.
- 2020 Ad-hoc reviewer, *Interspeech 2020*.

## Student Service

- 2021 - 2022 Coordinator, Phonetics and Phonology Reading Group, Department of Linguistics, University of Florida.
- 2020 - 2021 Social Coordinator, Department of Linguistics, University of Florida.
- 2019 - 2020 Student Senate, University of Kansas.

- 2019 - 2020 Vice President, International Student Association, University of Kansas.  
2015 - 2016 Vice President, Association of Science and Technology, China University of Geosciences (Wuhan).

## 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), Finding-Five (proficient), Linux (proficient), L<sup>A</sup>T<sub>E</sub>X (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