Department of Linguistics
Simon Fraser University
8888 University Drive
Burnaby, B.C.
Canada V5A 1S6
✉ fenqiw@sfu.ca
🖥 www.fenqiw.com

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**, & Ratree 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	Ratree 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, Ratree 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.

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* (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* (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

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 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. Ratree 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: Lecturer
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 /ɑ̃/. *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), LaTeX (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