Fenqi Wang

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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. 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   *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

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).

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).

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