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(updated on 12 August, 2022)

EDUCATION

- 2018 - 2022 Ph.D., Linguistics (English), University of Macau, Macao
Centre for Cognitive and Brain Sciences, Institute of Collaborative Innovation
Department of English, Faculty of Arts and Humanities
- thesis: *The When, Where, and How of Chinese Morphological Processing in the Human Brain: Evidence from EEG-fNIRS*
- supervisor: Prof. Cecilia Guanfang Zhao; cosupervisor: Prof. Zhen Yuan
- 2015 - 2018 M.A., Linguistics and Applied Linguistics, Beijing Language and Culture University, Beijing
Center for Studies of Chinese as a Second Language (Key Research Institute in University recognized by the Ministry of Education of P. R. China)
- thesis: *The Representation of Chinese L2 Learners' Coinages: Behavioral and Electrophysiological Evidence*
- supervisor: Prof. Jianqin Wang
- GPA: 90.6/100
- 2013 Exchange Student, Cultural Activities Development/Applied Foreign Languages, Chia Nan University of Pharmacy & Science, Tainan
College of Humanities & Applied Information
- 2011 - 2015 B.A., Teaching Chinese as a Foreign Language, Hainan University, Haikou
College of Humanities and Communication
- GPA: 3.72/4.0

RESEARCH INTEREST

Psycholinguistics, Chinese and bilingual studies, Second language acquisition (SLA)

Cognitive neuroscience, Neuroimaging (EEG, fNIRS, fMRI)

AWARDS

- 2022 Excellent Paper Award
2022 Doctoral Forum of School of Humanities, Tsinghua University, Beijing
- 2021 Best Poster Award, the 1st Place
The 1st International Symposium on Addiction and Decision Making, University of Macau, Macau

2021	Second Prize Research Paper Award The 1st Forum on Language and Cognitive Sciences for Graduate Students, Beijing Language and Culture University, Beijing
2015 - 2018	University Academic Scholarship Beijing Language and Culture University, Beijing
2014	Best Presentation Award Overseas programme in Entrepreneurship and Innovation, Nanyang Technological University, Singapore
2013 - 2015	National Endeavor Scholarship Hainan University, Haikou

GRANTS

2016 - 2017	Fundamental Research Funds for the Central Universities, and the Research Funds of Beijing Language and Culture University (17YCX160): <i>Studies of Developmental Units of Chinese Learners' Lexical Representation</i> . Volume: ¥2, 000, PI: Fei Gao
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PEER-REVIEWED JOURNAL ARTICLES (*Corresponding author)

under review	Lin, H., Gao, F. , Xia, X., Guo, Q., & Yuan, Z.* (under review). Individual-specific functional connectivity markers track dimensional and categorical features of APOE ε4 carriers or noncarriers from normal aging to Alzheimer's disease.
under revision	Chen, S.*, Buchanan, E., ... Gao, F. , & Chartier, C. (under revision). Investigating Object Orientation Effects Across 18 Languages. <i>Psychonomic Bulletin & Review</i> .
in press	Hua, L., Gao, F. , Leong, C., & Yuan, Z.* (in press). Neural decoding dissociates perceptual grouping between proximity and similarity in visual perception. <i>Cerebral Cortex</i> . (SCI-Q1, IF=5.998)
in press	Wei, Y.*, Jia, L., Gao, F. , & Wang, J. (in press). Visual-Auditory Integration and High-Variability Speech Can Facilitate the Visual Effect on Mandarin Chinese Tone Identification. <i>Journal of Speech, Language, and Hearing Research</i> . (SSCI-Q1, IF=2.674)
2022	Gao, F. , Wang, R., Armada-da-Silva, P., Wang, M., Lv, H., & Yuan, Z.* (2022). How the brain encodes the morphological constraints during Chinese word reading: An EEG-fNIRS study. <i>Cortex</i> . (SCI-Q1, IF=4.027)
2022	Wang, S., Xia, L., Wang, J., Yuan, X., Shi, Y., Wang, X., Li, X., Hu, Y., Zhang, Y., Yang, Y., Gen, F., Liu, Z., Chen, C., Wen, X., Luo, X., Gao, F. , & Liu, H.* (2022). Prevalence and clinical correlates of Internet addiction and its association with quality of life in adolescents with major depressive disorder: a multicenter cross-sectional study. <i>Frontiers in Psychiatry</i> . (SCI-Q2, IF=4.157)

- 2022 Xu, S., Qi, S., Duan, H., Zhang, J., Akioma, M., **Gao, F.**, & Yuan, Z.* (2022). Task Difficulty Level Regulating How Conscious and Unconscious Monetary Rewards Boost the Working Memory Performance: An event-related potential study. *Frontiers in Systems Neuroscience*, 139. (SCI-Q3, IF=3.289)
- 2022 Chen, K., Wang, R., Huang, J., **Gao, F.**, Yuan, Z., Qi, Y., & Wu, H.* (2022). A resource for assessing dynamic binary choices in the adult brain using EEG and mouse-tracking. *Scientific Data*. (SCI-Q1, IF=6.444)
- 2021 **Gao, F.**, Hua, L., He, Y., & Yuan, Z.* (2021). Word structure tunes electrophysiological and hemodynamic responses in the frontal cortex. *bioRxiv*. DOI: 10.1101/2021.11.14.468513.
- 2021 **Gao, F.**, Wang, J., Wu, C., Wang, M. Y., Zhang, J.*, & Yuan, Z.* (2021). The neural dynamics associated with lexicality effect in reading single Chinese words, pseudo-words and non-words. *Cognitive Neurodynamics*, 1-11. (SCI-Q2, IF=5.082)
- 2021 Xia, X., **Gao, F.**, & Yuan, Z.* (2021). Species and Individual Differences and Connectional Asymmetry of Broca's Area in Humans and Macaques. *NeuroImage*, 118583. (SCI-Q1, IF=6.556)
- 2021 **Gao, F.***, Wang, J., Zhao, C. G., & Yuan, Z. (2021). Word or morpheme? Investigating the representation units of L1 and L2 Chinese compound words in mental lexicon using a repetition priming paradigm. *International Journal of Bilingual Education and Bilingualism*, 1-15. (SSCI-Q1, IF=4.159)
- 2021 Chen, Y., Li, Y., Du, M., Yu, J., **Gao, F.**, Yuan, Z., & Chen, Z. (2021). Ultrasound Neuromodulation: Integrating Medicine and Engineering for Neurological Disease Treatment. *BIO Integration*.
- 2019 Jin, H., **Gao, F.**, & Chen, Z. (2019). Applications of Event Related Potentials (ERP) in Studies of Second Language Syntactic Acquisition [事件相关电位(ERP)技术在第二语言句法习得研究中的应用]. *世界汉语教学* 33(4): 522-547. (CSSCI)
- 2018 Kim, H., Liang, M., & **Gao, F.** (2018). Research on the cognitive processing mechanism of Korean Chinese learners' Chinese character [한국인 중국어 학습자의 한자 인지기체 연구]. *The Linguistic Association of Korea Journal* 26 (3): 159-178. (KCI)
- 2016 Yang, B., & **Gao, F.** (2016). A Corpus-based Study of Chinese Semi-affixes for TCSOL [基于语料库的汉语类词缀教学研究]. 清华大学出版社.(eds.) 第十届中国教学现代化国际研讨会论文集 (pp.408-416). 清华大学出版社.

CONFERENCE PRESENTATIONS

- 2022 **Gao, F.** (2022). Shared and distinct neural correlates of first and second language morphological processing in bilingual brain. Presented virtually at 2022 *Doctoral Forum of School of Humanities, Tsinghua University*, Beijing, May 7-8.
- 2022 Ning, Y., Wang, H., & **Gao, F.** (2022). On processing the Chinese multi-syllabic lexical unit "非+X": Evidence from ERPs. Presented virtually at *the 1st Graduate Forum on Chinese Linguistics among Beijing-Hong Kong-Macao Universities*, Macau, China, May 7.

- 2021 **Gao, F.** (2021). Word structure tunes electrophysiological and hemodynamic responses in the frontal cortex. Presented virtually at *the 2nd International Conference on Encounter with the Human Sciences & the 4th LinCog – International Symposium on Language and Cognition*, Macau, China, November 29-December 12.
- 2021 Hua, L., **Gao, F.**, Leong, C., & Yuan, Z. (2021). Neural decoding dissociates perceptual grouping between proximity and similarity in visual perception. Poster presented at *the 1st International Symposium on Addiction and Decision Making*, Macau, China, November 19-20.
- 2021 **Gao, F.**, Hua, L., He, Y., & Yuan, Z. (2021). Word structure tunes electrophysiological and hemodynamic responses in the frontal cortex. Poster presented at *the 1st International Symposium on Addiction and Decision Making*, Macau, China, November 19-20.
- 2021 **Gao, F.**, Hua, L., He, Y., & Yuan, Z. (2021). Word structure tunes electrophysiological and hemodynamic responses in the frontal cortex. Presented virtually at *the 9th National Conference on Cognitive Neurolinguistics*, Shanghai, China, November 5-7.
- 2021 **Gao, F.** (2021). How the brain encodes the morphological constraints during Chinese word reading: An EEG-fNIRS study. Presented virtually at *the 3rd Chinese Young Anatomic Scientists Forum*, Qingdao, China, October 15-18.
- 2020 **Gao, F.**, & Wang, R. (2020). Investigating the neural pattern of morphological constraints in reading Chinese compound word using simultaneous EEG-fNIRS recording. Presented virtually at *the 1st Forum on Language and Cognitive Sciences for Graduate Students*, Beijing, China, December 19.
- 2020 **Gao, F.** (2020). The when and where of morphological constraints in reading Chinese complex words: An EEG-fNIRS study. Presented virtually at *Association for Reading and Writing in Asia 2020 Annual Conference*, Beijing, China, September 24-25.
- 2019 **Gao, F.** & Wang, J. (2019). Formal and semantic representations in Chinese native and non-native speakers' mental lexicon: Evidence from ERPs. Presented at *the 4th Conference on Second Language Processing*, Guiyang, China, August 1-3.
- 2019 **Gao, F.** (2019). The lexical coinages and morphological units in L2 Chinese lexicon. Presented at *2019 Doctoral Forum for Teaching Chinese as A Second Language*, Peking University, Beijing, China, May 11.
- 2018 **Gao, F.** (2018). Formal and semantic representations in Chinese native and non-native speakers' mental lexicon: Evidence from ERPs. Presentation on *the 3rd SLA Round-Table Seminar: Cognitive Perspectives on Second Language Acquisition*, Macau, China, November 3-4.
- 2018 **Gao, F.** (2018). Representational units of Chinese native and non-native speakers' lexical processing. Paper presented at *the 6th International Symposium on Chinese Applied Linguistics*, Iowa City, USA, April 27-28.
- 2017 **Gao, F.** (2017). The representation of Chinese L2 learners' coinages, Presentation at *the 2nd Symposium on Second Language Processing*, Qingdao, China, May 27-28.

- 2017 **Gao, F.**, Qian, X., Liu, Y., & Liu, Z. (2017). Studies of developmental units of Chinese learners' lexical representation, Presentation at *the 14th International Conference on Chinese as Second Language (ICCSL)*, Jinan, China, October 13-16.
- 2017 **Gao, F.** (2017). The word coining in intermediate-level Chinese learners' speech production. Presentation at *the 3rd International Conference on Chinese Oral Interlanguage Corpus*, Beijing, China, July 4-5.
- 2017 Jia, L. & **Gao, F.** (2017). Language competence in a sociocultural perspective: A review of previous studies. Paper presented at *the 1st Conference on Imperatives of Contemporary Second Language Acquisition Research*, Dalian, China, June 2-4.
- 2016 **Gao, F.** (2016). Chinese learners' people-denoting semi-affix production: A corpus-based study. Paper presented at *the 19th Annual Conference of Beijing Language Association*, Beijing, China, December 3.
- 2016 **Gao, F.**, Yang, B., & Liang, M. (2016). The Influence of interactive oral output on Chinese L2 learners' vocabulary acquisition. Poster presented at *the 13th International Conference on Chinese as Second Language (ICCSL)*, Urumchi, China, July 22-25.
- 2016 Yang, B. & **Gao, F.** (2016). A corpus-based study of Chinese semi-affixes for TCSOL. Paper presented at *the 10th International Conference on Modernization of Chinese Education*, Seoul, South Korea, August 13.

INVITED TALKS AND WORKSHOPS

- 2021 **Gao, F.** (2021). *Investigating language processing by using EEG-fNIRS fusion*. Invited workshop at Beijing Language and Culture University, June 18.
- 2021 **Gao, F.** (2021). *How the brain encodes the morphological constraints during Chinese word reading*. Invited talk at NeuroTalk Salon, University of Macau, May 27.
- 2021 **Gao, F.** (2021). *Neural correlates of morphological processing for Chinese native speakers and Chinese-English bilinguals: Evidence from EEG-fNIRS and fMRI*. Invited talk at the Doctoral Salon of Peking University School of Chinese as a Second Language, April 8.
- 2021 Yuan, Z., & **Gao, F.** (2021). *Optical mapping of brain activation during bilingual translation*. Invited talk at Virtual Psycholinguistics Forum (VBF), Language Processing Laboratory, The Chinese University of Hong Kong, January 13.
- 2019 Kumar, R., **Gao, F.**, & Gabrieli, G. (2019). *Open Research in Asia-Pacific Countries: a Q&A with Academics*. Invited panel discussion hosted by Researcher-APP, December 5.
- 2018 **Gao, F.** (2018). *EEG/ERP data analysis using Curry software*. Internal workshop at Beijing Language and Culture University, June 8.
- 2014 **Gao, F.** (2014). Themed talk: *The World Out There [外面的世界]*, TEDx EvergreenPark, Haikou, China, October 18.

RESEARCH PROJECTS

- 2021-present Project member, *WH-question processing in Chinese as a second language learning across various linguistic backgrounds: An eye-tracking investigation* (21BYY018, PI: **Prof. Changyin Zhou**), China National Philosophy and Social Science Foundation
- role: investigation
- 2020 - 2022 Project member and coordinator, *Determinants and neural correlates of Portuguese L2 proficiency amongst 1st-year higher education Chinese students* (CP-UMAC-2020-01, PI: **Prof. Zhen Yuan** and **Dr. Paulo A. S. Armada-da-Silva**), Macao Higher Education Bureau
- roles: logistics, experiment design, data analysis, writing
- 2019 Project member, *EEG Many Labs* (Coordinator: **Dr. Yuri Pavlov**)
- role: investigation
- 2018 - 2020 Project member (coordinator of Macau site), *Investigating Object Orientation Effects Across 18 Languages* (Corresponding author: **Dr. Sau-Chin Chen**), Psychological Science Accelerator
- roles: investigation, resources
- 2019 Project assistant, *ERP Correlates of Phonological Effect in Reading L2 Chinese Novel Characters* (PI: **Prof. Hong Gang Jin**, **Prof. Sun-A Kim**), University of Macau/Sun Yat-Sen University
- role: EEG experiment design
- 2018 - 2019 Project member, *Second Language Acquisition MOOC*
- role: editor
- 2015 - 2018 Project member, *Cognitive Mechanism of Oral Proficiency Development by Chinese Language Learners and Related Teaching Model* (12AZD113, PI: **Prof. Jianqin Wang**), China National Philosophy and Social Science Foundation
- roles: investigation, resources
- 2012 - 2013 Project member, *Writing for Practical Purposes in Higher Education [新编大学实用文体写作教程]* (Principle editor: **Prof. Zhi Gao**), Hefei: University of Science and Technology of China Publishing House
- roles: chapter writing, editing

TRAINING PROGRAMS

- 2018 Organization for Human Brain Mapping (*OIBM*) Online Mentorship Programme (Mentor: **Prof. Linda Larson-Prior**)
- 2014 July Overseas Programme in Entrepreneurship and Innovation, Nanyang Technological University, Singapore
- 2013 October Exploring and Studying Taiwan Diversity: Media Taiwan camp, Taipei

TEACHING

- 2018 - 2020 TELC001: English Talk Time, *teaching assistant*
English Language Center, Faculty of Arts and Humanities, University of Macau, Macau

2019 June-July	Summer English Immersion Program, <i>program assistant</i> English Language Center, Faculty of Arts and Humanities, University of Macau, Macau
2018 June-July	Royal Beijing Language and Culture Center Chinese course, <i>instructor</i> PAREF Southridge School, Manila, the Philippines
2016 Autumn	Second Language Acquisition, <i>teaching assistant</i> Tianjin Normal University, Tianjin, China
2016 Summer	CHIN130b: Intermediate Mandarin, <i>one-on-one instructor</i> Harvard-Beijing Academy, Beijing, China
2015	Intermediate Mandarin, <i>instructor</i> Haikou Premier School of Chinese and Foreign Language, Haikou, China
2013	Children English, <i>instructor</i> Hope English School, Haikou, China

ACADEMIC SERVICE AND MEMBERSHIP

Reviewer	<i>Journal of Psycholinguistic Research</i>
Abstract reviewer	<i>Postgraduate Research Symposium on Linguistics, Language, and Speech (PRSLLS)</i> , June 18-19, 2021
Member	<i>Association for Reading and Writing in Asia</i>

ORGANIZED SEMINARS

2021	<i>CCBS NeuroTalk</i> , University of Macau (ongoing, 20 talks/22 presenters so far)
2021	<i>Language, Mind, and Brain seminar II</i> - theme: <i>Embodied metaphor and language processing</i> - seven participants, seven seminars
2021	<i>Language, Mind, and Brain seminar I</i> - theme: <i>Neuro-imaging studies of translation and interpreting process</i> - four participants, four seminars

SKILLS

Software:	E-prime, EEGLAB, SPSS, R, SPM
Programming:	MATLAB (basic)
Skills:	EEG/ERP data analysis, fNIRS analysis, fMRI analysis
Language:	Mandarin, Hubei dialect, English

MEDIA

2021	<u>UM makes breakthrough in study of language connectome across different species, UM Campus News, October 12.</u>
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- 2021 [CCBS professors succeeded in decoding the neural dynamics associated with lexicality effect in reading Chinese words](#), UM CCBS Research News, October 11.
- 2019 [Open Research in Asia-Pacific Countries](#), Researcher-APP News, December 5.

HOBBIES

Hiking, Running, Travelling