

Chanyuan Gu (古婵媛)

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Address: FG815a, 8/F, FG Core, Faculty of Humanities, Hong Kong Polytechnic University, Hong Kong

EDUCATION & CERTIFICATE

The Hong Kong Polytechnic University (PolyU) 2020.09 - Present
Ph.D. Student Department of Chinese and Bilingual Studies
Dissertation: Neurocognitive Basis of Naturalistic Reading Comprehension in Second Language

Chinese Academy of Sciences (CAS) 2017.09 - 2020.08
Applied Psychology M.S. Institute of Psychology
Curriculums (3.55/4.0): multivariate statistical analysis, cognitive science and brain mapping, psychological assessment, specialized English, research methods of psychology, advanced topics in applied psychology

Southwest Jiaotong University (SWJTU) 2013.09 - 2017.06
Applied Psychology B.A. Department of Psychological Education
Curriculums (3.77/4.0): developmental psychology, educational psychology, statistical analysis, social psychology, emotional psychology, physiological psychology, cognitive psychology

RESEARCH INTERESTS

Second Language Acquisition, Neuro-Cognitive Mechanisms, Language Disorder, Individual Differences, Neural Coupling, Deep Learning, Neural Adaptations

PUBLICATIONS (Peer-reviewed)

Gu, C., & Bi, H. Y. (2020). Auditory Processing Deficit in Individuals with Dyslexia: A Meta-Analysis of Mismatch Negativity. *Neuroscience & Biobehavioral Reviews*, 116, 396-405.

Gu, C., & Bi, H. Y. (2021). The effect of subjective phonetic-radical neighborhood on character naming in developing children. *Psychological Development and Education*. 37(01), 68-75. [in Chinese]

Yang, Y., Zuo, Z., Tam, F., Graham, S. J., Li, J., Ji, Y., Meng, Ze., Gu, C., ... & Xu, M. (2022). The brain basis of handwriting deficits in Chinese children with developmental dyslexia. *Developmental Science*, 25(2), e13161.

Yang, Y., Tam, F., Graham, S., Sun, G., Li, J., Gu, C., ... Bi, H-Y., Zuo, Z. (2020). Men

and women differ in the neural basis of handwriting. *Human Brain Mapping*, 41(10), 2642-2655.

CONFERENCE PRESENTATIONS (Peer-reviewed)

Gu, C., & Li, P. (March 2022). Lexical processing in L1 and L2 naturalistic reading: Evidence from neural connectivity and network science. Oral presentation at the 6th Conference of Association for Reading and Writing in Asia (virtual meeting).

Gu, C., & Li, P. (Oct 2021). How bilinguals dynamically comprehend words in the text: Evidence from neural connectivity and network science. Slide Slam Presentation at the 2021 SNL Annual Meeting (virtual meeting).

Gu, C., & Bi, H. Y. (Oct 2021). Categorical Perception of Mandarin tones in Children with Developmental Dyslexia. Slide Slam Presentation at the 2021 SNL Annual Meeting (virtual meeting).

Gu, C., & Bi, H. Y. (Nov 2018). The effect of subjective phonetic-radical neighborhood on character naming in developing children. Oral presentation at the 21th National Academic Congress of Psychology, Beijing, China.

Gu, C., & Bi, H. Y. (Sep 2020). Auditory Processing Deficit in Individuals with Dyslexia: A Meta-Analysis of Mismatch Negativity. Oral presentation at the 4th Conference of Association for Reading and Writing in Asia (virtual meeting).

RESEARCH EXPERIENCE

Reading Brain Leader (dissertation)	2020.11 – Present
Multimedia Learning Main Assistant	2020.10 – Present
Reading-related abilities in twins Assistant	2019.04 – 2019.12
Cognitive neural mechanism and intervention of Chinese developmental dyslexia with writing deficit Assistant	2018.09 – 2019.12
The function of visual macro-cell pathway in Chinese Developmental dyslexia Assistant	2018.09 - 2018.11
The audiovisual integration ability in Chinese children with developmental dyslexia Assistant	2018.09 - 2019.02
The brain function and structural connection of Chinese character writing Assistant	2018.09 - 2019.02

Investigation of AIDS KAP among college students and its influential factors

Leader

2015.04 - 2016.04

TRAINING

Experimental Data

Behavioral, eye-tracking, EEG, and fMRI data

Experimental skills

Data Collection: E-prime (familiar), DMDX (basic)

Data Analysis: Matlab (eeglab, SPM, CONN, and basic programming), Python (basic programming), R (basic programming), DSI Studio, FSL (preprocessing and structure), DataViewer (beginner)

Data Statistics: SPSS (familiar), Python (basic programming), R (basic programming), and Stata (meta-analysis)

Others: Praat (beginner)

Languages

Mandarin Chinese (native), Sichuan Dialect (native), English (fluent), Korean (beginner), Cantonese (beginner)

Certificates

Psychological Consultant (level 3)

Human Resource Certificate (level 3)

Psychological Teacher Qualification Certification in High School

SELECTED AWARDS AND HONORS

National Scholarship (2015-2016)

Good reporter (2014-2015)

Miyoshi students(2014-2015)

Comprehensive scholarship(2013-2017)

Simulated psychological consultation contest in Sichuan province(the first prize)

SCHOOL EXPERIENCE

Teaching assistant (2021)

Summer teaching (2015)

Psychological consultation room (2013-2017)

Student park self-management committee, ministry of rights and interests (2013-2014)

Psychological press corps (2013-2014)

Chinese youth volunteers (2016)