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The Hong Kong Polytechnic University
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Education

- 2021 - Now The Hong Kong Polytechnic University, Hong Kong SAR
PhD in Cognitive Neuroscience (GPA: 3.93/4)
Dissertation topic: Neural coupling during Multimedia Learning: Impacts of Social Richness, Embodied Level and Instruction Medium
Advisor: Ping Li
Areas of interest: *Neural dynamics during naturalistic learning and social interaction; Individual difference in personality and motivation and its influence on learning and behavior; Knowledge representation; Bilingualism*
- 2017 - 2018 University of Edinburgh, Scotland, UK
MSc in Developmental Linguistics (Award: Merit)
Thesis topic: The Effect of L1 Attrition on Subject and Object Expressions in Chinese among Chinese L1 Attriters of L2 English and L2 Portuguese
Thesis advisor: Antonella Sorace, Zoe Schlueter
- 2013 - 2017 Macao Polytechnic University, Macao SAR
BA in Chinese/English Translation and Interpreting
(Award: Distinction)
- 2015-2016 Peking University, China
Exchange (GPA: 3.63/4)
- 2019 The Hong Kong Polytechnic University, HK SAR
Summer school: Advanced Topics in Psycholinguistics and Neurolinguistics, Advanced Topics in Research Methodology for Language Sciences

Publication (* = equal contribution)

- Gu, C*., **Peng, Y***., Nastase, S. A., Mayer, R. E., & Li, P. (2024). Onscreen presence of instructors in video lectures affects learners' neural synchrony and visual attention during multimedia learning. *Proceedings of the National Academy of Sciences*, 121(12), e2309054121.
- Xu, Q*., **Peng, Y.**, Wu, M., Xiao, F., Chodorow, M., & Li, P. (2023). Does conceptual representation require embodiment? insights from large language models. arXiv preprint arXiv:2305.19103. (under review)
- Xu, Q., **Peng, Y.**, & Li, P. (2023). Large-scale Network Analyses Reveal Cross-Language Differences in Semantic Structures: A Comparative Study. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 45, No. 45).
- Peng, Y.**, Nastase, S. A., Huang, Y., Wu, M., Li, Y., & Li, P. (2024). Teacher-student Social Interaction Enhances Neural and Visual Synchrony for Virtual Lectures. (in preparation)

Conference presentations

- Peng, Y.**, Nastase, S. A., Huang, Y., Wu, M., Li, Y., & Li, P. (2024). Teacher-student social interaction enhances neural and visual synchrony for virtual lectures. Poster presentation at the Cognitive Neuroscience Society (CNS) 2024 Annual Meeting, Toronto, Ontario, Canada
- Peng, Y.**, Gu., C., Nastase, S., Mayer, R., & Li, P. (2023). Social cues impact real-time synchronization, visual attention, and learning outcome during multimedia learning. Poster presentation at the Cognitive Neuroscience Society (CNS) 2023 Annual Meeting, San Francisco, California, US
- Gu, C., **Peng, Y.**, & Li, P. (2022). The neural basis of multimedia learning and multimodal processing: social-emotional cues for effective online learning. Oral presentation at the 52st Annual Conference of the Society for Computation in Psychology (SCiP 2022), Boston, Massachusetts, US
- Xu, Q., **Peng, Y.**, Wu, M., Feng, X., Chodorow, M., & Li, P. (2023). Multimodal conceptual representation: Do ChatGPT/LLMs require embodiment to reach human-level representation? Poster presentation at *the Annual Conference of the Society for the Neurobiology of Language (SNL 2023)*, Marseille, France
- Peng, Y.**, & Li, P. (2021). Chinese and English child semantic networks: Universal features and cross-linguistic variations. Oral presentation at the 51st Annual Conference of the Society for Computation in Psychology (SCiP 2021), virtual conference
- Xu, Q., **Peng, Y.**, & Li, P. (2021). Large-scale network analyses reveal cross-language differences in semantic structures: A comparative study of English and Mandarin Chinese. Oral presentation at the 51st Annual Conference of the Society for Computation in Psychology (SCiP 2021), virtual conference
- Peng, Y.**, & Li, P. (2021). Chinese child semantic networks: universal features, distinctiveness and psycholinguistic implications. Oral presentation at CogSci 2021 Hong Kong Meetup & Symposium, Hong Kong SAR
- Peng, Y.**, Schuetler, Z., & Sorace, A. (2021). The effect of L1 attrition on subject expressions in Chinese among Chinese L1 attriters of L2 English and L2 Portuguese. Oral presentation at the 32nd International congress of Psychology (ICP 2020+), Prague, Czech

Research Experience

Teacher-student neural/visual coupling Lead (PhD dissertation)	2023.01 – Present
Neural basis of multimedia learning Lead	2020.10 – Present
Large language model and knowledge representation Lead	2023.02 – Present
Network approach for the investigation- of Chinese and English semantic representation Lead	2019.09 – Present
China Biobank – Healthy population cohort Assistant	2019.04 – 2019. 10
Leverhulme Trust: bilingualism, pragmatic enrichment and Reasoning Student helper	2018.08 – 2018.12
L1 attrition in syntactic-semantic interface Lead (Master's thesis)	2018.02 – 2018.08

Teaching Experience

PhD student instructor for

- Corpus-based Linguistic Research 2022 Spring
- Chinese Language and the Chinese Society 2023 Spring
- Introduction to AI and Data Analytics for Language Professionals 2023 Fall

Supply teacher at the Edinburgh Chinese School 2018

Awards

Second Runner up in Simultaneous Interpretation session of the 6 th National Interpretation Contest of China	2017
First Runner-up in the fifteenth Macao-Wide English Speech Contest	2016
“Best Position Paper” in Asia International Model United Nations 2016 UN Women	2016
MPU New Horizon Scholarship 12,000 USD/y	2014-2017
MPU Outstanding Academic Award 10,000HKD	2017
HK PolyU Summer School Scholarship 6,000 HKD	2019
HK PolyU Top Conference Grant 13,000 HKD	2024

Languages

Mandarin: native

English: fluent (IELTS: 8)

Cantonese: fluent

Portuguese: A2

Skills and Tools

Programming and data analysis: R (intermediate), Python (intermediate), Matlab (basic; SPM, eeglab, CONN), Praat, Data Viewer (intermediate; for eye tracking data)

Lab-based experiments: MRI, Eye-tracking (Eyelink 1000), EEG (wearable EEG + VR), E-Prime, PsychoPy, Open Sesame

Online experiments and surveys: Qualtrics, Gorilla, Prolific

Corpus analysis: Computerized Language ANalysis (CLAN), CHAT