CURRICULUM VITAE

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CONTACT

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RESEARCH EXPERIENCE

[2023 – present]

Postdoctoral research fellow,

Brain and Cognition Lab, Department of Psychology, National Taiwan University.

Principal Investigator: Dr. Bo-Cheng Kuo

EDUCATION

[2016 – 2023]

Ph.D. in Psychology, National Taiwan University, Taipei, Taiwan

Advisor: Dr. Bo-Cheng Kuo

Dissertation: *Spatiotemporal dynamics of neural representations underlying object recognition and selectivity in human brain*

[2021 – 2022]

Visiting Ph.D. student, Freie Universität Berlin, Germany

Advisor: Prof. Dr. Radoslaw Martin Cichy

[2011 – 2015]

M.S. in Computer Science, National Chengchi University, Taipei, Taiwan

Language, Cognition and Brain Program (20 credits)

Advisor: Dr. Pei-Jeng Kuo and Dr. Lee-Xing Yang

Thesis: *Continuous reconceptualization of personalized photograph tagging system based on contextuality and intention*

PUBLICATIONS

Journal articles:

- **Li, C. H.**, Wang, M. Y., & Kuo, B. C. (2023) *Tracking the temporal dynamics of face-like inversion effect as revealed by Chinese characters using magnetoencephalography*. Cerebral Cortex, bhad135; doi: 10.1093/cercor/bhad135

- **Li, C. H.**, Wang, M. Y., & Kuo, B. C. (2022) *The effects of stimulus inversion on the neural representations of Chinese character and face recognition.* Neuropsychologia, 108090; doi: 10.1016/j.neuropsychologia.2021.108090

- Chen, F. W., **Li, C. H.**, & Kuo, B. C. (2022) *Temporal expectation based on the duration variability modulates alpha oscillations during working memory retention.* NeuroImage, 119789; doi: 10.1016/j.neuroimage.2022.119789

- Kuo, B. C., **Li, C. H.**, Lin, S. H., Hu, S. H., & Yeh, Y. Y. (2017) *Top-down modulation of alpha power and pattern similarity for threatening representations in visual short-term memory.* Neuropsychologia, 106, 21-30; doi: 10.1016/j.neuropsychologia.2017.09.001

Manuscript in preparation:

- **Li, C. H.** & Kuo, B. C. (in preparation) *Goal-directed attention modulates neural representations of object selectivity - An MEG-fMRI fusion study.*

- **Li, C. H.**, Chen, F. W., & Kuo, B. C. (in preparation) *Spatiotemporal dynamics of internal attention in working memory: an MEG-fMRI fusion study.*

Selected conference presentations:

- **Li, C. H.**, Kuo, B. C. (2024) *Spatiotemporal dynamics of object-based attention: an MEG-fMRI-DNN fusion study*, poster presented in the 30th Annual Meeting of the Organization for Human Brain Mapping, Seoul, Korea.

- **Li, C. H.**, Chen, F. W., Kuo, B. C. (2023) *Spatiotemporal dynamics of internal attention in working memory: an MEG-fMRI fusion study*, poster presented in the 29th Annual Meeting of the Organization for Human Brain Mapping, Montréal, Canada.

- **Li, C. H.**, Kuo, B. C. (2022) *Goal-directed attention modulates neural representations of object selectivity - an MEG-fMRI fusion study*, poster presented in the European Conference on Visual Perception, Nijmegen, Netherlands.

- **Li, C. H.**, Kuo, B. C. (2022) *The effects of stimulus inversion on the neural representations of face and Chinese character recognition*, poster presented in the International Conference of Cognitive Neuroscience, Helsinki, Finland.

- Chen, F. W., **Li, C. H.** & Kuo, B. C. (2022) *Alpha-band activity tracks retrospective operation in visual working memory: evidence from MEG-fMRI fusion*, poster presented in the CNS Annual Meeting, San Francisco.

- **Li, C. H.** & Kuo, B. C. (2021) *Top-down attention modulates spatiotemporal dynamics of object selectivity: an MEG-fMRI fusion study*, poster presented in the 27th Annual Meeting of the Organization for Human Brain Mapping, virtual. (Merit Abstract Award)

- **Li, C. H.** & Kuo, B. C. (2019) *Pattern similarity in neural representations for the inversion effect of face and Chinese character*, poster presented in the 25th Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy.
- Wang, S. M., **Li, C. H.**, Lo, Y. C., Huang, T. H., Ku, L. W., (2016) *Sensing emotions in text messages: an application and deployment study of EmotionPush*, system demonstrated in the 26th International Conference on Computational Linguistics, Osaka, Japan.

SELECTED HONORS, AWARDS & FUNDING

[2023]

- Doctoral dissertation award (Su Xiangyu dissertation award), selected by Taiwan Psychological Association. (20,000 NTD)
- Presidential award for graduate students, selected by National Taiwan University (NTU). (100,000 NTD)
- Dean's award, selected by College of Science in NTU.

[2022]

- Sponsorship of CIFAR neuroscience of consciousness winter school, offered by Brain, Mind & Consciousness program of CIFAR, Canada. (7,000 CAD)
- Scholarship of 2022 summer institute program, offered by German Academic Exchange Service (DAAD) and Ministry of Science and Technology (MOST). (3,600 EUR + 21,798 NTD)
- Doctoral dissertation proposal award of Humanities and Social Sciences, selected by MOST, Taiwan. (480,000 NTD)
- Scholarship of graduate students study abroad program (千里馬計畫), offered by MOST, Taiwan. (600,000 NTD)

[2021]

- Merit abstract award for the OHBM 2021 Annual Meeting, selected by OHBM 2021 Program Committee.

TEACHING EXPERIENCE

[PSY 2001] Methods of Psychological Experiments (1) (Fall 2019, 2021 & 2023)

- Leading an introductory session of the Python and hand-on sessions of the PsychoPy
- Grading and office hours

SKILLS

- Brain imaging techniques: MEG, fMRI, EEG
- Programming languages: Python, MATLAB, R, C, JAVA, PHP, Javascript
- Experimental control: PsychoPy, Psychtoolbox, Presentation

- Brain data processing: MNE, Fieldtrip, SPM
- Machine learning toolboxes: Scikit-Learn, PyTorch, Weka
- Statistics: JASP, R