

Tak Kwan Quentin Lam

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603C, 6F, Wong Foo Yuan Building, The Chinese University of Hong Kong, Sha Tin, New Territories.

Education & Work

Beijing Normal University, China

September 2019 - June 2023

Bachelor of Science in Psychology

The Chinese University of Hong Kong, Hong Kong SAR, China

August 2023 - July 2025

Full-time Junior Research Assistant (**Present**)

The Chinese University of Hong Kong, Hong Kong SAR, China

August 2025 - June 2027

Master of Philosophy in Psychology

Lab Experience

(**Present**) Cognitive Neuroscience of Language Lab, CUHK. Supervisor: Prof. Urs Maurer

August 2023 - July 2025

Junior Research Assistant

- Teach two MA students (Supervisor: Ph.D. Shuting Huo) using Brain Vision Analyzer to preprocess EEG data
- Use FOOOF package to separate periodic and aperiodic component in EEG power spectra (Paper published)
- Use Python to automatically generate Children and Parent reports as the reading assessment feedback
- Developing Python EEG data preprocess pipeline

Child Cognition Lab, Beijing Normal University. Supervisor: Ph.D. Qiandong Wang

June 2021 - June 2023

Part-time Research Assistant

- TA at the Undergraduate course, Experiments in Experimental Psychology (In Matlab & R) 2022 Fall & 2023 Spring
- Machine Learning for eye-tracking temporal dynamic data (Paper published)
- Eyelink Eye-tracking experiment coding in Python with Psychopy
- Develop Python Eye-tracking data preprocess pipeline

Institute of Genetics and Developmental Biology, Chinese Academy of Sciences. Supervisor: Prof. Yongqing Zhang

Scientific Intern

October 2022 - May 2023

- Code Experiment in Python for Eyelink eye-tracking on Autism-associated Shank3 mutant dogs

Parental Emotional Regulation and Kids Lab. Supervisor: Prof. Zhuo Rachel Han

September 2020 - June 2022

Part-time Research Assistant

- Conduct behavioral coding of 80 parent-child interactions based on Minnesota Longitudinal Study manuals
- Assess physiological sensitivity using respiratory sinus arrhythmia (Biopac MP150) and measured brain activity with functional near-infrared spectroscopy (fNIRS)

Research Skills

Programming: Fluent in Python, R, \LaTeX . Familiar with Matlab, Psychopy Builder, Eyelink Dev Tools, Tobii Pro Lab

Measurements: EEG (EGI, ANT), eye-tracking (Eyelink, Tobii), physiology (Biopac), fMRI (GE MR750), fNIRS (NIRx)

Language: Fluent in Cantonese, Mandarin (Mother tongue), and English (IELTS 7.0). Learning German (A1).

Clinical Experience

Peking University Sixth Hospital, China. Supervisor: M.D. Xuebing Huang
Complete the Mindfulness-Based Cognitive Therapy(MCBT) 8-week program

February 2025 - April 2025

Peking University Sixth Hospital, China. Supervisor: M.D. Peng Li
Scientific Intern

November 2021 - November 2022

- Trained to conduct the Mini International Neuropsychiatric Interview and MATRICS Consensus Cognitive Battery
- Assist in eye-tracking & fMRI data collection
- Recruit 24 major depressive disorder participants at the outpatient services

Publications and Thesis

Huo, S., Wang, J., **Lam, T. K.**, Wong, B. W. L., Wu, K. C., Mo, J., & Maurer, U. (2024). Development of EEG Alpha and Theta Oscillations in the Maintenance Stage of Working Memory. *Biological Psychology*, 191, 108824.

<https://doi.org/10.1016/j.biopsycho.2024.108824>

Su, W., **Lam, T. K.**, Yi, Z., Ahemaitijiang, N., Han, Z. R., & Wang, Q. (2023). Dynamic Patterns of Affect-biased Attention in Children and its Relationship with Parenting . *International Journal of Behavioral Development*, 01650254231207596.

<https://doi.org/10.1177/01650254231207596>.

XU Jianjie, ZHANG Yiyi, **LAM Tak Kwan**, CHE Liying, SONG Manman, HAN Zhuo. (2023). Parent-child Attachment and Children's Depressive Symptoms: The Role of Children's Biological Sensitivity and Parental Gender Differences. *Acta Psychologica Sinica*, 55 (3), 469.

Li, Y., Wang, Q., Yuan, S., **Lam, T. K.**, Guo, K., Zhang, Y. & Yi, L. (2024). Reduced Attention to Human Eyes in Autism-associated Shank3 Mutant Dogs. *Molecular Psychiatry* [Under 2nd round review].

Su, W., Lin, X., Liu, W., **Lam, T. K.**, Li, P., & Wang, Q. The Impact of Depression and Social Anxiety on Eye Orientation and Disengagement in Individuals with and without Depression. *Journal of Affective Disorders* [Under review].

Lam, T. K., Wang, Q. (2023). *Attentional Biases toward Emotional Faces in the Major Depressive Disorder: An Eye-tracking Study*. (Unpublished bachelor's thesis). Beijing Normal University.

Conferences (* denote as the presenter)

Lam, T. K.*, Liu, W., Su, W., Wang, Z., Li, P., Wang, Q., & Lin, X. (July 2025). Initial and Sustained Attentional Bias toward Emotional Faces in Major Depression Disorder. *Will be presented at the CP(Computational Psychiatry) Conference*, Tübingen, Germany.

Lam, T. K.*, Huo, S., Lui, K. F. H., McBride C., & Maurer, U. (February 2025). The Effect of Resting State Alpha Power on Basic Biliteracy in Hong Kong Chinese-English-speaking Children. *Will be presented at the ARWA(Association for Reading and Writing in Asia) Conference*, Cebu, Philippines.

Lam, T. K.*, Huo, S., Chan, Y. H., Chen, Y., & Maurer, U. (July 2024). Intergenerational Transmission of Chinese Dyslexia. *Presented at the SSSR (Society for the Scientific Study of Reading) Conference*, Copenhagen, Denmark.

Wang, Q., Li, X., Gong, X., Yin, T., **Lam, T. K.***, & Yi, L. (May 2023). Autistic Children's Visual Attention to Face Movement. *Presented at the INSAR (International Society for Autism Research) Conference*, Stockholm, Sweden.