Anqi Li Ph.D.

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Education

Division of Life Science, Hong Kong University of Science and Technology Hong Kong, China

Ph.D. in Life Science 2022 - 2026 *(expected)*

- Advisor: Prof. Tengfei Guo and Prof. Jun Xia
- Research area: Preclinical pathology of Alzheimer's Disease

State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University Beijing, China

M.Sc. in Cognitive Neuroscience 2017 - 2020

- Advisor: Prof. Gui Xue
- Research area: The effect of Goal-directed attention on both working and long-term memory representations in the human brain

Faculty of Psychology, Beijing Normal University Beijing, China

B.Sc. in Psychology 2013 - 2017

- GPA: 3.72/4.00.

Project

[18F]-D3FSP beta-amyloid PET imaging in older adults and Alzheimer's disease

Project leader 2022.8 - 2024.7

- **Goal**: To Determine the optimal reference region of [18F]D3FSP PET for quantitative analysis and Evaluate the clinical performance of [18F]D3FSP Abeta PET imaging in Alzheimer's disease
- **Content**: data analysis, results interpretation, and academic manuscript draft.

The Greater-Bay-Area Healthy Aging Brain Study (GHABS)

Core member 2021.5 - Now

- **Goal**: To learn about the pathophysiology characterization and evolutionary patterns of Alzheimer's disease in South China older adults.
- **Content**: Assess the older people's cognitive performance, genotype, blood biomarkers, brain atrophy, Abeta and tau deposition in vivo.

Risk Factors Association with Alzheimer's Disease Pathophysiology in APOE4 Carriers and Non-Carriers

Project leader 2021.8 - 2023.5

- **Goal**: (1) To provide a significant reference for monitoring Body Mass Index in older adults with and without the APOE4 allele. (2) To provide imaging evidence to underlie the mechanism behind osteoarthritis(OA)-related high risk of AD and help better health management of older individuals, especially individuals with both OA and AD disorders.
- **Content**: data analysis, results interpretation, and academic manuscript draft.

The effect of Goal-directed attention on both working and long-term memory representations in the human brain

Project leader 2019.1 - 2020.8

- **Goal**: To investigate how perceptual attention and reflective attention modulate neural representations during encoding and to explore their effects on long-term memory performance and neural representations.
- **Content**: data analysis, results interpretation, and academic manuscript draft.

Publications

1. **Anqi Li**, Ruiyue Zhao, Mingkai Zhang, Pan Sun, Yue Cai, Lin Zhu, Hank Kung, Ying Han, Xinlu Wang*, Tengfei Guo*. "[18F]-D3FSP beta-amyloid PET imaging in older adults and Alzheimer's disease". *European Journal of Nuclear Medicine and Molecular Imaging*, 2024.

2. **Anqi Li**, Jing Du, Yue Cai, Xuhui Chen, Kun Sun, Tengfei Guo*. "Body Mass Index Decrease Has a Distinct Association with Alzheimer's Disease Pathophysiology in APOE4 Carriers and Non-Carriers". *Journal of Alzheimer's Disease*, 2023.

3. Jing Du†, **Anqi Li**†, Dai Shi, Xuhui Chen, Qingyong Wang, Zhen Liu, Kun Sun, and Tengfei Guo*. "Association of APOE4, Osteoarthritis, beta-Amyloid, and Tau Accumulation in Primary Motor and Somatosensory Regions in Alzheimer Disease", *Neurology*, 2023.

4. Huinan Hu, **Anqi Li**, Liang Zhang, Chuqi Liu, Liang Shi, Xiaojing Peng, Tong Li, Yu Zhou, Gui Xue*. "Goal-directed attention transforms both working and long-term memory representations in the human parietal cortex", *Plos Biology*, 2024.

5. Pan Sun, Zhengbo He, **Anqi Li**, Jie Yang, Yalin Zhu, Yue Cai, Ting Ma, Shaohua Ma, Tengfei Guo*. "Spatial and Temporal Patterns of Cortical Mean Diffusivity in Alzheimer's Disease and Suspected Non-Alzheimer's Disease Pathophysiology", *Alzheimers Dement*, 2024.

6. Zhen Liu†, Dai Shi†, Yue Cai, **Anqi Li**, Guoyu Lan, Pan Sun, Lin Liu, Yalin Zhu, Jie Yang, Yajing Zhou, Lizhi Guo, Laihong Zhang, Shuqing Deng, Shuda Chen, Xianfeng Yu, Xuhui Chen, Ruiyue Zhao, Qingyong Wang, Pengcheng Ran, Linsen Xu, Liemin Zhou, Kun Sun, Xinlu Wang, Qiyu Peng, Ying Han, Tengfei Guo*. "Pathophysiology characterization of Alzheimer's disease in South China's aging population: for the Greater-Bay-Area Healthy Aging Brain Study (GHABS)", *Alzheimers Res Ther* 2024.

7. Tengfei Guo*, **Anqi Li**, Pan Sun, Zhengbo He, Yue Cai, Guoyu Lan, Lin Liu, Jieyin Li, Jie Yang, Yalin Zhu, Ruiyue Zhao, Xuhui Chen, Dai Shi, Zhen Liu, Qingyong Wang, Linsen Xu, Liemin Zhou, Pengcheng Ran, Xinlu Wang, Kun Sun, Jie Lu*, Ying Han*. "Astrocyte reactivity is associated with tau tangle load and cortical thinning in Alzheimer's disease", *Molecular Neurodegeneration*, 2024.

8. Guoyu Lan, Xuhui Chen, Jie Yang, Pan Sun, Yue Cai, **Anqi Li**, Yalin Zhu, Zhen Liu, Shaohua Ma, Tengfei Guo*. "Microglial reactivity correlates to presynaptic loss independent of beta-amyloid and tau", *Annals of Neurology*, 2024.

9. Yue Cai, Jing Du, **Anqi Li**, Yalin Zhu, Linsen Xu, Kun Sun, Shaohua Ma, Tengfei Guo*. "Initial levels of beta-amyloid and tau deposition have distinct effects on longitudinal tau accumulation in Alzheimer's disease", *Alzheimers Res Ther*, 2023.

10. Guoyu Lan, **Anqi Li**, Zhen Liu, Shaohua Ma, Tengfei Guo*, and for the Alzheimer's Disease Neuroimaging Initiative. "Presynaptic Membrane Protein Dysfunction Occurs Prior to Neurodegeneration and Predicts Faster Cognitive Decline". *Alzheimers Dement*, 2022.

11. Guoyu Lan, Yue Cai, **Anqi Li**, Zhen Liu, Shaohua Ma, Tengfei Guo*, and for the Alzheimer's Disease Neuroimaging Initiative. "Association of presynaptic loss with Alzheimer's disease and cognitive decline", *Annals of Neurology*, 2022.

12. Dai Shi, Siwei Xie, **Anqi Li**, Qingyong Wang, Hongbo Guo, Ying Han, Huaxi Xu, Wen-Biao Gan, Lei Zhang, Tengfei Guo* for the Alzheimer's Disease Neuroimaging Initiative. "APOE4 modulates the association among plasma Abeta42/Abeta40, vascular diseases, neurodegeneration and cognitive decline in non-demented elderly adults", *Translational Psychiatry*, 2022.

† Contribute equally to the work

Skills

Languages: Chinese, English.

IT: `Python`, `R`, `MATLAB`.

Neuimaging: fMRI, PET.