



# Lizhi GUO

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## EDUCATION

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### The Chinese University of Hong Kong

08/2023 – 2027 (Expected)

- Ph.D in Psychology

### Tianjin University

09/2019 – 01/2022

- M.Ed in Applied Psychology
- Dissertation Project: *Social isolation, loneliness, and cognitive function among Chinese older adults (Outstanding thesis of Tianjin University)*
- Rank: Top 1%      GPA: 91.5/100

### Jilin University

09/2014 – 07/2018

- B.E in Material Forming and Control Engineering

## PUBLICATIONS (#co-first)

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1. **Guo, L.**, An, L., Luo, F., & Yu, B. (2020). Social isolation, loneliness and functional disability in Chinese older women and men: a longitudinal study. *Age and Ageing*, 50(4), 1222-1228. (2023 IF = 6.0, Q1)
2. **Guo, L.#**, Yang, L.#, Rao, L., Luo, F., Gao, N., Jia, X., & Yu, B. (2022). Too depressed to breathe: the longitudinal association between depressive symptoms and lung function among general middle-aged and older adults. *Archives of Gerontology and Geriatrics*, 104797. (2023 IF = 3.5, Q2)
3. **Guo, L.**, Luo, F., Gao, N., & Yu, B. (2021). Social isolation and cognitive decline among older adults with depressive symptoms: prospective findings from the China Health and Retirement Longitudinal Study. *Archives of Gerontology and Geriatrics*, 104390. (2023 IF = 3.5, Q2)
4. **Guo, L.#**, An, L.#, Wang, N., Ni, T., Wang, X., Zhou, Y., Luo, F., Zhang, S., Zhang, K., & Yu, B. Prospective association between social isolation, loneliness and lung function among Chinese middle-aged and older adults. *Australasian Journal on Ageing*, 2024;00:1-8. (2023 IF = 1.4, Q3)
5. Lee, T.-I., **Guo, L.**, & Chan, A. S. (2024). fNIRS as a biomarker for individuals with subjective memory complaints and MCI. *Alzheimer's & Dementia*. (2023 IF = 13.0, Q1)
6. Liu, Z., Shi, D., Cai, Y., Li, A., Lan, G., Sun, P., Liu, L., Zhu, Y., Yang, J., Zhou, Y., **Guo, L.**, Zhang, L., Deng, S., Chen, S., Yu, X., Chen, X., Zhao, R., Wang, Q., Ran, P., Xu, L., Zhou, L., Sun, K., Wang, X., Peng, Q., Han, Y., & Guo, T. (2024). Pathophysiology characterization of Alzheimer's disease in South China's aging population: for the Greater-Bay-Area Healthy Aging Brain Study (GHABS). *Alzheimer's Research & Therapy*, 16(1), 84. (2023 IF = 7.9, Q1)
7. Li, Y., Wu, Q., **Guo, L.**, Weerawardena, N. S., Luo, F., & Yu, B. (2023). Dyadic effects of cognitive function on depressive symptoms among middle-aged and older Chinese couples. *International Journal of Geriatric Psychiatry*, 38(4), e5909. (2023 IF = 3.6, Q1)
8. Luo, F., **Guo, L.**, Thapa, A., & Yu, B. (2021). Social isolation and depression onset among middle-aged and older adults in China: Moderating effects of education and gender differences. *Journal of Affective Disorders*, 283, 71-76. (2023 IF = 4.9, Q1)
9. Li, A., Zhao, R., Zhang, M., Sun, P., Cai, Y., Liu, L., Lan, G., Zhu, Y., Chen, X., **Guo, L.**, Zhou, Y., Sun, K., Zhu, L., Kung, H. F., Wang, Q., Xu, L., Han, Y., Wang, X., & Guo, T. (2023). [18F]-D3FSP amyloid-

$\beta$  PET imaging in elderly adults and Alzheimer's disease. *Alzheimer's & Dementia*, 19(S17), e079352. (2023 IF = 13.0, Q1)

10. Guo, T., Zhang, M., Shi, D., Li, Y., Chen, X., Zhao, R., Lan, G., Cai, Y., Sun, P., Li, A., Zhu, Y., Liu, L., **Guo, L.**, Zhou, Y., Liu, Z., Sun, K., Wang, X., Xu, L., Wang, Q., & Han, Y. (2023). Plasma biomarker and neuroimaging changes in a Chinese community aging cohort: The Greater-Bay-Area Healthy Aging Brain Study (GHABS). *Alzheimer's & Dementia*, 19(S14), e077578. (2023 IF = 13.0, Q1)

## RESEARCH EXPERIENCE

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### Institute of Biomedical Engineering, Shenzhen Bay Laboratory

Research Assistant

05/2022 – 07/2023

- *Project*: the early detection of Alzheimer's Disease
- *Data collection*: collecting cognition data (n=410), blood samples (n=337), stool samples (n=230), and neuroimaging data (n=220) with other members of the Guo Lab
- *Clinical Neuro-assessments*: neuropsychological assessments, follow-up contact (n=50)
- *Neuroimaging*: assisting in scanning, neuroimage quality control, data copy, protocol correction, and analysis (n=120)
- *Biomarkers*: assisting in taking blood and cerebrospinal fluid samples; completing plasma, white blood cell separation; sample storage, and plasma protein quantitative analysis, etc. (n=130)

### Effect of ultrasound stimulation on A $\beta$ plaque and tau tangle in 5xFAD mice

Research Assistant

09/2022 – 07/2023

- Animal experimentation certificate (No. SZBLLACE00305)
- Debug ultrasound parameters using the Tektronix waveform generator.
- Anesthetize mice and guide the placement of the ultrasound focus by using the digital stereotaxic guidance system

### The National Social Science Foundation, China: Study on the influence and intervention of loneliness on physical and mental health of urban elderly (grant numbers 18BSH118)

Graduate Student, Tianjin University

09/2019 – 05/2022

- Recruited 94 community-dwelling older adults
- Employed E-prime-based cognitive tasks and Biopac-based physiological indices collection
- Cohort and longitudinal data analysis

## HONORS AND AWARDS

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- 2021 National Scholarship Award for Postgraduates
- 2022 Outstanding Master's Thesis of Tianjin University
- 2022 Outstanding Peer Tutor of Tianjin University Academic Winter Camp
- 2021 Tianjin University Merit Student
- National Silver Award of the 2nd China International College Students' 'Internet+' Innovation and Entrepreneurship Competition (2016)
- Reviewer: *Age and Ageing*, *BMC public health*, *International Journal of Geriatric Psychiatry*, *Health Policy and Technology*, *Frontiers in Cardiovascular Medicine*, *Frontiers in Public Health*