Lizhi Guo

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Education

The Chinese University of Hong Kong – Doctor of Philosophy in Psychology, June 2027

- Dissertation Advisor: Helene H. Fung & Hanna Lu
- Fully-Funded

King's College London – Visiting PhD student, February 2026

- Advisor: Dag Aarsland
- PhD International Mobility for Partnerships and Collaborations Award

Tianjin University – Master of Applied psychology, January 2022

- Dissertation Advisor: Bin Yu
- Dissertation Project: *Social isolation, loneliness, and cognitive function among Chinese older adults* **(Outstanding thesis of Tianjin University)**

Jilin University – Bachelor of Engineering

- Major: Material Forming and Control Engineering

Research experiences

Shenzhen Bay Laboratory – Research Assistant, June 2023

- Supervisor: Tengfei Guo
- 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)

Publications

Journal Articles (first author)

Guo, L., Zhou, Y., Lu, H., & Fung, H. H. (2025). The moderating effect of cognitive reserve on the association between neuroimaging biomarkers and cognition: A systematic review. *Neurobiology of Aging,* 156, 10-29. (Presented at BNA 2025)

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. (Newspaper Mentions: Life Times)

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.

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.

Guo, L., An, L., Wang, N., Ni, T., Wang, X., Zhou, Y., . . . Yu, B. (2024). Prospective association between social isolation, loneliness and lung function among Chinese middle-aged and older adults. *Australasian Journal on Ageing, 43*(4), 675-682.

Journal Articles (co-author)

Zhou, Y., Sheehan, R., **Guo, L.,** & Strydom, A. (2025). Blood-based biomarkers for Alzheimer's disease in Down syndrome: A systematic review and meta-analysis. *Alzheimer's & Dementia, 21*(4), e70135.

Song, Y., **Guo, L.,** Zhu, H., & Yu, B. (2025). Only child or multiple children? The number of children and cognition in older Chinese parents. *Australasian Journal on Ageing*, 44(1), e70009.

Song, Y., Steptoe, A., Yang, H., Ma, Z., **Guo, L.,** Yu, B., & Xia, Y. (2025). Loneliness and Risk of Incident Hearing Loss: The UK Biobank Study. *Health Data Science, 5*, 0281.

Lee, T.-l., **Guo, L.,** & Chan, A. S. (2024). fNIRS as a biomarker for individuals with subjective memory complaints and MCI. *Alzheimer's & Dementia, 20*(8), 5170-5182.

Liu, Z., Shi, D., Cai, Y., Li, A., Lan, G., Sun, P., Liu, L., Zhu, Y., Yang, J., Zhou, Y., **Guo, L.,** Zhang, L., … 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.

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.

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.

Conference Papers

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-β PET imaging in elderly adults and Alzheimer's disease. *Alzheimer's & Dementia,* 19(S17), e079352.

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.

Awards

2025 PhD International Mobility for Partnerships and Collaborations Award, CUHK

2023 Postgraduate Studentships, CUHK

2021 National Scholarships, Ministry of Education, China

2022 Outstanding Master's Thesis of Tianjin University

2022 Outstanding Peer Tutor of Tianjin University Academic Winter Camp

2021 Tianjin University Merit Student

2016 National Silver Award of the 2nd China International College Students' 'Internet+' Innovation and Entrepreneurship Competition, Ministry of Education, China

Reviewers

Alzheimer's & Dementia

Age and Ageing

Depression & Anxiety

Journal of Affective Disorders

BMC public health

Humanities and Social Sciences Communications

International Journal of Geriatric Psychiatry

Psychogeriatrics

Health Policy and Technology

Frontiers in Cardiovascular Medicine

Frontiers in Public Health