

Lizhi Guo

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Education

The Chinese University of Hong Kong – PhD in Psychology, 2023.08 – 2027.06

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

King's College London – Visiting PhD student in Psychiatry, 2025.08 – 2026.02

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

Tianjin University – Master of Applied psychology, 2019.09 –2022.01

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

Jilin University – Bachelor of Engineering, 2014.09 –2018.06

- Major: Material Forming and Control Engineering

Research experience

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.

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

Reviewing and editorial experience

- 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