

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., 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.
- 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., 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)

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., **Guo, L.**, Zhou, X., Wang, Y. and Guo, T. (2025), Lonely individuals show more tau pathology in Alzheimer's Disease. *Alzheimer's & Dementia*, 21, e100833.
- 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*