Lizhi Guo

The Chinese University of Hong Kong
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Education

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

- Advisor: Helene H. Fung & Hanna Lu
- Dissertation Project: *The moderation effect of cognitive reserve in cognitive aging*
- Fully Funded

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

- Advisor: Dag Aarsland
- Fully Funded (PhD International Mobility for Partnerships and Collaborations Award)

Tianjin University – Master of Applied psychology, 2019.09 –2022.01

- 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

Publications

Journal Articles (First author)

Guo, L., Aarsland, D, Borda, M, Zhou, Y., Lu, H., & Fung, H. H. (2026). Physical activity, plasma p-tau217, and longitudinal cognitive and tau changes by APOE ε4 status. *In preparation.*

Guo, L., Zhou, Y., Lu, H., & Fung, H. H. & Aarsland, D. (2026). Functional network segregation moderates the association between amyloid burden and cognitive decline. *Under Revision in Alzheimer's Research & Therapy.*

Guo, L., Zhou, Y., Lu, H., Fung, H. H., & Aarsland, D. (2026). Depressive symptom trajectories and subsequent cognitive decline: the moderating role of cognitive reserve. *Under Review.*

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. **[ESI Highly Cited Paper, Top 1% | Featured in *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). [^{18}F]-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 experience

Alzheimer's & Dementia
Journal of Affective Disorders
BMC Geriatrics
Psychogeriatrics
Frontiers in Aging Neuroscience
Depression & Anxiety
BMC Psychiatry
Global Health, Epidemiology and Genomics
Age and Ageing
BMC Public Health
Humanities and Social Sciences Communications
Health Policy and Technology
Frontiers in Public Health
International Journal of Geriatric Psychiatry
Frontiers in Cardiovascular Medicine