



# Lizhi Guo

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## EDUCATION

### The Chinese University of Hong Kong

08/2023– 07/2027

- PhD Psychology

### Tianjin University

09/2019– 01/2022

- MSc Applied Psychology
- Dissertation Project: Social isolation, loneliness, and cognitive function among Chinese older adults (Outstanding thesis of Tianjin University)
- Rank: Top 1%                      Mark of dissertation: 91.506

### Jilin University

09/2014 – 07/2018

- B.E. Material Forming and Control Engineering

## PUBLICATIONS (#co-first, \*co-corresponding)

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. (5 Year IF = 9.0)
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. (5 Year IF = 4)
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. (5 Year IF = 4)
4. 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. (5 Year IF = 6.3)
5. 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. (5 Year IF = 4.1)
6. Wang, N.#, An, L. #, ..., **Guo, L.\***, Yu, B.\*, et al. (2023) Isolated from the air: the prospective association between social isolation, loneliness, and peak expiratory flow. *Submitted*.

## RESEARCH EXPERIENCE

### Institute of Biomedical Engineering, Shenzhen Bay Laboratory

Research Assistant

05/2022– Present

- *Project*: the early detection and diagnosis of Alzheimer's Disease
- *Data collection*: collecting cognition data (n=410), blood samples (n=337), stool samples (n=230), and imaging data (n=220) with other members of the Guo Lab
- *Clinical Assessments*: neuropsychological assessments, cognitive report, follow-up contact (n=50)

- *Imaging*: assisting in scanning, image quality control, data copy, protocol correction, and imaging 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 – present**

- 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
- Supervising a graduate student to graduation

### **LEADERSHIP**

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**TIEMX (Jilin University)**

**09/2015 – 12/2016**

Chief Operating Officer

- WeChat operation: with 30,000 reading
- Conducted over 10 project roadshows
- Won National Silver Award of the 2nd China International College Students' 'Internet+' Innovation and Entrepreneurship Competition

### **HONORS AND AWARDS**

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- 2021 National Scholarship for Postgraduates
- 2022 Outstanding Master's Thesis of Tianjin University
- Outstanding Peer Tutor of Tianjin University Academic Winter Camp
- 2021 Tianjin University Merit Student
- Volunteer of psychological assistance for COVID-19 pandemic
- National Silver Award of the 2nd China International College Students' 'Internet+' Innovation and Entrepreneurship Competition

### **SKILLS**

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- *Statistical skills*: Proficient in cohort and longitudinal data analysis by Stata, SPSS, R, Matlab
- *Languages*: Chinese (*native*), English (*fluent*)
- *Soft skill*: Very strong Learning and Adaptive ability