

# Zilin Li

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## EDUCATION BACKGROUND

### M.S., Cognitive Neuroscience

2021/09-2024/07

Beijing Normal University (BNU), Beijing, China

- Overall GPA: 3.9/4.0

### B.S., Psychology

2017/09-2021/07

Southern Medical University (SMU), Guangdong, China

- Overall GPA: 4.11/5.0 (GPA Professional Ranking:1/38)

### Exchange student in Psychology

2018/09-2019/07

Chung Shan Medical University (CSMU), Taichung, Taiwan

- GPA: 4.58/5.0 (GPA Professional Ranking: 1/55)

## PUBLICATIONS

### Peer-Reviewed Article Publications

2020/05-2022/04

- **Zilin Li**, Gaojie Huang, Zetian Li, Shubin Li, Yile Wang, Jiubo Zhao, Jinfeng Wen, Thomas Hummel, Laiquan Zou (2020). Chemosensory anhedonia in patients with schizophrenia and individuals with schizotypy: a questionnaire study. *Frontiers in Psychiatry*,11(481). DOI: 10.3389/fpsyt.2020.00481.
- **Zilin Li**, Thomas Hummel, Laiquan Zou. Sniffing of body odors and individual significance of olfaction are associated with sexual desire: A cross-cultural study in China, India and the USA. *Archives of sexual behavior*, DOI: 10.1007/s10508-022-02398-1.
- **Zilin Li**, Yue Qi, Mehmet K. Mahmut, Laiquan Zou. Do you often sniff yourself or others? Development of the Body Odor Sniffing Questionnaire and a cross-cultural survey in China and the USA. *Physiology & Behavior*, 255(113934), DOI: 10.1016/j.physbeh.2022.113934.
- Yanyang Huang<sup>#</sup>, **Zilin Li**<sup>#</sup>, Laiquan Zou. Association between schizotypal traits and food neophobia: mediating effect of chemosensory hedonic capacity. *Journal of Sensory Studies*, e12741. DOI: 10.1111/joss.12741.
- Lan Liu, **Zilin Li**, Zhihong Lyu, Laiquan Zou. A review of psychophysical olfactory tests in children. *Chin J Otorhinolaryngol Head Neck Surg*, June2020, Vol.55, No.6 [in Chinese].
- **Zilin Li**, Wenxiao Wang, Feng Sang, Zhanjun Zhang, Xin Li. White matter changes underlie hypertension-related cognitive decline in older adults [review]. *Journal of Hypertension*, under review.

<sup>#</sup>These authors contribute equally.

### Working Paper

- **Zilin Li**, Feng Sang, Xin Li, Zhanjun Zhang. Effect of the duration of hypertension on cognitive function and its neural mechanism [Work in progress].

- Feng Sang, **Zilin Li**, Yaojing Chen, Zhanjun Zhang. Brain structure reveals sex differences in language memory and spatial memory [work in progress].

## RESEARCH EXPERIENCES

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### Graduate Research Assistant

2021/09-2024/07

**Center for Beijing Aging Brain Rejuvenation Initiative (BABRI) (PI: Prof. Zhanjun Zhang)**

**Graduate Research Project of State Key Laboratory of Cognitive Neuroscience and Learning, BNU**

- Investigated the effect of hypertension duration on different cognitive domains, white matter integrity, white matter hyperintensities and brain network using large sample data (N=1302) from BABRI.  
*Role:* Project director, *Responsibilities:* Data analysis and interpretation, Manuscript drafting.
- Investigated sex differences in cognitive function and related brain structure using machine learning.  
*Role:* Project member, *Responsibilities:* Data interpretation and Manuscript drafting.
- Participated in BABRI cohort study, focusing on asymptomatic stages of dementia, aiming to identify markers, develop prevention and intervention strategies for cognitive aging and dementia.  
*Role:* Project member, *Responsibilities:* Data collection and analysis.

### Undergraduate Research Assistant

2017/10-2021/09

**Chemical Senses and Mental Health Lab (PI: Prof. Laiquan Zou)**

**Undergraduate Research Project of Department of Psychology, SMU**

- Investigated chemosensory anhedonia of schizophrenia patients, schizotypal individuals and healthy controls.
- Developed a new tool called *Body Odor Sniffing Questionnaire (BOSQ)* for evaluating individuals' prevalence of sniffing their own and others' body odor; Used the BOSQ to investigate the cultural differences of body odor sniffing behavior among the Chinese and US populations.
- Investigated the relationship between individual significance of olfaction, body odor sniffing behavior and sexual desire, and examined its cultural consistency.
- Investigated the relationship between food neophobia and schizotypal traits, and the role of chemosensory hedonic capacity in this relationship.  
*Role:* Project director, *Responsibilities:* Study conceptualization, Experimental design, Data collection, analysis and interpretation, Manuscript drafting.

### Undergraduate Research Intern

2020/07-2020/09

**The Wang Laboratory (PI: Prof. Liping Wang)**

**The Brain Cognition and Brain Disease Institute of Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences**

- Mastered some molecular biology experiments including Western blot, in situ hybridization, immunohistochemistry and animal experiments including open field test, social interaction test, elevated plus maze test, EEG sleep monitoring and optogenetics.
- Investigated the therapeutic effectiveness of Cannabidiol in treating the core symptoms of autism using Shank3B<sup>-/-</sup> mice model of autism.  
*Role:* Project member, *Responsibilities:* Experiment conducting.

## HONORS & AWARDS

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- 2021-2022 The First Prize Scholarship of Beijing Normal University
- 2021 “Outstanding Graduates of Southern Medical University”
- 2021 Zewei Guo Research and Innovation Scholarship
- 2020 “Top Ten Students of the School of Public Health – Academic Stars”
- 2019-2020 National Scholarship
- 2019-2020 The First Prize Scholarship of Southern Medical University
- 2017-2018/2018-2019 The Second Prize Scholarship of Southern Medical University
- 2019 The Second Prize Scholarship of Chung Shan Medical University in Spring Semester
- 2019 The First Prize Scholarship of Chung Shan Medical University in Fall Semester
- 2017-2018/2018-2019/2019-2020 “The excellent students of Southern Medical University”
- 2018 “National Big Writing Event Under One Topic”- Third Place Winner

## PROFESSIONAL EXPERIENCE

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### Teaching Assistant

2022/02-2022/09

- Worked as a TA of the course of Physiological Psychology; Instructed exercises and helped solve problems arising from students via one-on-one approach.

### Workshop & Scientific Camp

2021/07-2021/12

- Participant of diffusion MRI workshop, BNU: *Fundamentals & Processing of diffusion data*.
- Participant of X-LAB Camp led by Prof. Erwin Neher and Prof. Eva Neher, University of Göttingen: *Scientific Training of Neuroscience for Future Scientists*.
- Excellent Member of Summer Camp of Chinese Institute for Brain Research, Beijing.

### Clinical Training

2019/12-2020/12

- Received clinical practice at the Third Affiliated Hospital of Southern Medical University and the Guangzhou Mental Health Center.

### Student Work

2017/09-2021/09

- Secretary of Culture and Entertainment Department of Student Union; Organized the Party for Freshman and the Dormitory Culture Festival.

## SKILLS

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- **Technology:** rest-fMRI, diffusion-MRI, structural MRI, behavioral experiments and psychometrics.
- **Data analysis software:** (proficient) MATLAB, SPSS, Amos, Mplus; (Learning) Python and R.
- **Toolboxes:** SPM, CAT12, PANDA, FSL, LST, Diffusion tool kit, trackvis.
- **Data visualization:** GraphPad Prism, R (ggplot2)
- **Interests:** Ballet (Grade 7), Piano (Grade 3).