

Zilin Li

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EDUCATION BACKGROUND

M.S., Cognitive Neuroscience

2021/09-2024/07

Beijing Normal University (BNU), State Key Laboratory of Cognitive Neuroscience and Learning, 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

2020/05-2023/04

- **Zilin Li**, Wenxiao Wang, Feng Sang, Zhanjun Zhang, Xin Li. (2023). White matter changes underlie hypertension-related cognitive decline in older adults. *Neuroimage: clinical*, 38, 103389. **IF: 4.891, Q2.**
- **Zilin Li**, Thomas Hummel, Laiquan Zou. (2022). 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*, 51(8), 3703–3713. **IF: 4.891, Q1.**
- **Zilin Li**, Yue Qi, Mehmet K. Mahmut, Laiquan Zou. (2022). 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. **IF: 3.742, Q1.**
- Yanyang Huang[#], **Zilin Li**[#], Laiquan Zou. (2022). Association between schizotypal traits and food neophobia: mediating effect of chemosensory hedonic capacity. *Journal of Sensory Studies*, 37(3). **IF: 2.831, Q2.** [#]contribute equally
- **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. **IF: 5.435, Q2.**
- Lan Liu, **Zilin Li**, Zhihong Lyu, Laiquan Zou. (2020). A review of psychophysical olfactory tests in children. *Chinese Journal of Otorhinolaryngology Head and Neck Surgery*, 55(6), 645–648. [in Chinese].
- **Zilin Li**, Feng Sang, Xin Li, Zhanjun Zhang. (2023). Effect of hypertension duration on white matter structure and its link with cognition. *Neurology*, submitted. **IF: 11.800, Q1.**

Working Papers

- **Zilin Li**, Zhanjun Zhang, Xin Li. Increased resting-state functional connectivity as a compensatory mechanism for disrupted structural network in hypertensive patients.
- Feng Sang, **Zilin Li**, Zhanjun Zhang. Brain structure reveals sex differences in verbal and spatial memory.

RESEARCH EXPERIENCES

Graduate Research Assistant

2021/09-2024/07

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

Role: Project director, **Responsibilities:** Data collection, analysis and interpretation, Manuscript drafting.

- Investigated effect of hypertension duration on white matter microstructure (measured by both traditional DTI model and free water imaging model), white matter macrostructure (measured by white matter hyperintensities), white matter networks (graphic analysis) and its relation with cognition using large sample data from BABRI.
- Investigated alteration of functional networks (measured by functional connectivity and graphic analysis) in different stages of hypertension, which may serve as a compensatory mechanism for disrupted structural network.

Role: Project member, **Responsibilities:** Data collection, analysis and interpretation.

- Investigated sex differences in cognition and related brain structure (measured by surface-based morphometry) using machine learning method.
- 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.

Graduate Research Intern

2022/12-2024/07

Dept. of Psychiatry and Neuroscience, Charité University Medicine (PI: Prof. Gunter Schumann)

Centre for Population Neuroscience and Stratified Medicine (PONS), Fudan University

Role: Project member, **Responsibilities:** Data analysis and interpretation.

- Identification and simulation of brain activation patterns during reward processing in healthy individuals and patients with psychiatric disorders using the digital twin brain.

Undergraduate Research Assistant

2017/10-2021/09

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

Role: Project director, **Responsibilities:** Study conceptualization, Experimental design, Data collection, analysis and interpretation, Manuscript drafting.

- Investigated chemosensory anhedonia of schizophrenia patients, schizotypy 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 relationship between individual significance of olfaction, body odor sniffing behavior and sexual desire, and examined its cultural consistency.
- Investigated relationship between food neophobia and schizotypal traits, and the role of chemosensory hedonic capacity in this relationship.

Undergraduate Research Intern

2020/07-2020/09

The Wang Laboratory, Chinese Academy of Sciences (PI: Prof. Liping Wang)

Role: Project director, **Responsibilities:** Experiment conducting.

- Investigated the therapeutic effectiveness of Cannabidiol in treating the core symptoms of autism using Shank3B^{-/-} mice model of autism.

- Utilized 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.

HONORS & AWARDS

- 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

Teaching Assistant

2022/02-2022/09

- TA of the course of Physiological Psychology in BNU; Holding the tutoring session after class to provide one-on-one guidance.

Workshop & Scientific Camp

2021/07-2021/12

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

Clinical Training

2019/12-2020/12

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

SKILLS

- **Technology:** resting-state fMRI, diffusion MRI, structural MRI, behavioral experiments and psychometrics.
- **Computer language:** Python, R, MATLAB, bash.
- **Software/Toolboxes:** SPSS, Amos, Mplus, SPM, CAT12, FSL, PANDA, Lesion Segmentation Toolbox, Diffusion tool kit, trackvis, Gretna, dpabi, MarkVCIID MRI Free Water Imaging Biomarker Kit
- **Statistical skills:** Structural Equation Modeling, Canonical Correlation Analysis, Generalized Linear Model
- **Data visualization:** GraphPad Prism, R (ggplot2).
- **English Test: IELTS:** 7.5.
- **Interests:** Ballet (Grade 7), Piano (Grade 3).