

# ZHIHAN GUO

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## EDUCATION

- Sun Yat-sen University** | Double First Class University, Project 985 & 211  
Guangzhou, China  
M.S. in Psychology  
Aug 2018 – Jun 2021
- Awards: Outstanding Graduate (Top 10%), First Prize Scholarship of Outstanding Students
- B.S. in Applied Psychology  
Aug 2014 – Jun 2018
- GPA: 4.0/5.0, Ranking: 4/61
  - Awards: Outstanding Graduate (Top 10%), First Prize Scholarship of Outstanding Students

## RESEARCH EXPERIENCES

Note. [x] refers to the item in the publication list.

- Infinite Brain Technology**  
May 2022 – present
- Research Topics: Cognitive training for ADHD and schizophrenia.<sup>[9,10]</sup>
- Prof. Xiang Wu's Lab, Sun Yat-sen University**  
Jun 2019 – Jun 2021
- Research Topics: Cognitive Neuroscience<sup>[1,6]</sup>, Temporal Processing<sup>[2]</sup>
- Prof. Jinsong Chen's Lab, Sun Yat-sen University**  
Sept 2017 – Jun 2019
- Research Topics: Latent Variable Modeling<sup>[4,8]</sup>, Psychometrics<sup>[5]</sup>

## PUBLICATIONS

**Journal Articles** (+ equal contribution, \* correspondent author)

1. Zhou, P., Wu, Q., Zhan, L., **Guo, Z.**, Wang, C., Wang, S., ... & Wu, X.\* (2023). Alpha peak activity in resting-state EEG is associated with depressive score. *Frontiers in Neuroscience*, 17, 1057908. [\[doi\]](#)
2. Zhan, L., Huang, Y., **Guo, Z.**, Yang, J., Gu, L., Zhong, S., & Wu, X.\* (2022). Visual over auditory superiority in sensorimotor timing under optimized condition. *Frontiers in Psychology*, 13, 1048943. [\[doi\]](#)
3. **Guo, Z.**, Niu, M., & Wang, Q.\* (2021). Target familiarity and visual working memory do not influence familiarity effect in visual search. *Scientific Reports*, 11(1), 7560. [\[doi\]](#)
4. Chen, J.\* , **Guo, Z.**, Zhang, L., & Pan, J.\* (2021). A partially confirmatory approach to scale development with the Bayesian Lasso. *Psychological Methods*, 26(2), 210. [\[doi\]](#)
5. **Guo, Z.**, & Chen, J.\* (2019). Teaching evaluation under the view of modern validity: reflection and suggestions [Chinese]. *Higher Education Exploration*, 3, 11-15. [\[doi\]](#)

### In Prepration

6. Sui, L.<sup>+</sup>, Zhan, L.<sup>+</sup>, **Guo, Z.**<sup>+</sup>, Wang, C., Huang, Y.\* , Wu, X.\*. Gamma synchronization in the primary auditory cortex precedes predicted event onsets in rhythmic temporal anticipation – neural evidence from intracranial EEG recording.

## Conference Presentations (poster presenter, talk presenter)

7. Wang, J., **Guo, Z.**, Huang, J., Zhou, H. & Pan, J. (2019). *The Mechanism of Gender Differences in Attitude towards Legal Abortion: Indirect Effects of Sexual Permissiveness Attitudes and Gender Stereotypes*. The 22nd National Academic Conference of Psychology, 18-20 Oct, Hangzhou. [\[abstract\]](#)
8. **Guo, Z.**, Chen, J., & Tu., D. (2018). *Analysis of Raven's Advanced Progressive Matrices from a Cognitive Diagnosis Modeling Framework*. The 13th Cross-Straits Conference on Educational and Psychological Testing, 22-25 Oct, Taiwan. [\[slides\]](#)

## Patents

9. Fu, Y., Wu, S., **Guo, Z.**, Hu, J., Xiong, X. Method, Apparatus, Electronic Device, and Storage Medium for Features Normalization. China Patent: CN116913525A (under review).
10. Fu, Y., Wu, S., Xiong, X., **Guo, Z.** Yu, Y. Method, Apparatus, and Medium for Capability Assessment. China Patent: CN116910492A (under review).

## PROFESSIONAL EXPERIENCES

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### Teaching Assistant

- Educational Measurement, Sun Yat-sen University 2019, 2020
- Special Topics on Psychometrics (graduate level), Sun Yat-sen University 2018

### Ad Hoc Reviewer

- Psychological Methods

## WORK EXPERIENCES

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### Infinite Brain Technology

May 2022 – present

- Data Mining Engineer, Beijing, China

### Meituan

Jul 2021 – Apr 2022

- Human Resource, Beijing, China

## SKILLS & INTERESTS

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**Data Science & Programming:** Python, R, MATLAB, MySQL, Mplus, Git

**Languages:** Chinese (Native), English

**Interests:** Drums, Workout, Stand-up Comedy