

Hui-Ting Cai 蔡慧婷

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Scalp and Intracranial EEG, non-invasive brain stimulation

EDUCATION

Shanghai Jiao Tong University

- M.S. in Psychology, Shanghai Mental Health Centre 09/2020 - 06/2023

Sun Yat-Sen University

- B.S. in Psychology, Department of Psychology 09/2016 - 06/2020

RESEARCH EXPERIENCES

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

Clinical Psychology Research Center, Shanghai Xuhui Mental Health Centre

Advisor: Prof. Ti-Fei Yuan, Dr. Zhipeng Cao 07/2023 - present

Research Topics/Skills: Large-scale Brain Networks [Scalp-EEG 6], Network Analysis [5, 9]

Prof. Ti-Fei Yuan's Lab, Shanghai Mental Health Centre

07/2020 - 06/2023

Research Topics/Skills:

- Non-invasive Brain Stimulation [TMS 2, tACS& Intracranial-EEG 3]
- Neural Mechanisms of Cravings [Stimulus Material Development 1, Scalp-EEG 4, Intracranial-EEG 7]

Prof. Zhen-Zhu Yue's Lab, Sun Yat-Sen University

09/2017 - 06/2020

Research Topics/Skills: Structural Equation Modelling with *Mplus* [8]

PUBLICATIONS

Peer-reviewed Articles ([#] indicates co-first author, * indicates corresponding author)

1. Cai H-T[#], Zhang H-W[#], Zheng H[#], Xu T, Liu L, Ban X-Y, Di J-Z*, Yuan T-F*, Han X-D*. (2023). Development of Chinese Food Picture Library for Inducing Food Cravings. *Frontiers in Psychology*. [doi]
2. Ding Q[#], Cai H-T[#], Wu M, Cai G, Chen H, Li W, Lin T, Jing Y, Yuan T-F*, Xu G*, Lan Y*. (2021). Short Intracortical Facilitation Associates with Motor-inhibitory Control. *Behavioural Brain Research*. [doi]

Manuscripts Under Review/ In Revision

- 3. Luo H[#], Ye X[#], **Cai H-T[#]**, Wang M[#], Wang Y, Liu Q, Xu Y, Mao Z, Cai Y, Hong J, Zhang C, Wei P, Lu Y, Liu Q^{*}, Xu J^{*}, Yuan T-F^{*}. (in revision). Frequency-specific and State-dependent Neural Responses to Brain Stimulation. *Molecular Psychiatry*.
- 4. Li Y[#], **Cai H-T[#]**, Li S-Q, Liu Z-Q, Yang Q, Li F, Xu P^{*}, Zheng H^{*}, Han X-D^{*}. (submitted). Alterations in the Resting-state Functional Network are Associated with Food Addiction.
- 5. Zhan G-L[#], **Cai H-T[#]**, Ni H, Qin J-M, Bao L, Li C-M, Yuan T-F^{*}. (submitted). A Network Approach to Understanding the Inter-relationship between Depressive and Anxiety Symptoms in Suicidal Ideation.

Manuscripts In Preparation (first and co-first author only)

- 6. **Cai H-T[#]**, Ni H[#], ... , Huang T-C^{*}, Yuan T-F^{*}. (manuscript drafted). Revealing the Changing Pattern of Neural Oscillation Following a Single Dose of Oral Methadone.
- 7. **Cai H-T[#]**, Luo H[#], ... Xu J^{*}, Yuan T-F^{*}. (in preparation). Neural Substrate of the Food Cue Reactivity Based on Human Intracranial-EEG.

Contributor Roles

No. of Publications	1	2	3	4	5	6	7
Conceptualization							
Data curation							
Formal analysis							
Investigation							
Methodology							
Visualization							
Writing – original draft							
Writing –review & editing							

Conference Presentations (presenter only)

- 8. **Cai H-T.** (2019). *The Effect of Positive Psychological Capital on Academic Performance: A Moderated Mediation Model*. The "Psychology for the 21st Century" Undergraduate Psychology Forum, 6 July, Beijing, China.
- 9. **Cai H-T.** et al. (2024). *A Network Approach to Understanding the Inter-relationship between Depressive and Anxiety Symptoms in Suicidal Ideation*. The 22nd Psychiatric Medical Conference of Chinese Medical Association, 11-14 Sep, Shenyang, China. [[poster](#)]

HONOURS & AWARDS

- The First Prize Scholarship, Shanghai Jiao Tong University 2021
- Inspirational Excellence Scholarship, Sun Yat-Sen University 2020
- **National Scholarship, Minister of Education of China** 2019
- First Prize Scholarship of Outstanding Students, Sun Yat-Sen University 2019
- National Inspirational Scholarship, Minister of Education of China 2017,2018
- Scholarship of Outstanding Students, Sun Yat-Sen University 2017,2018

RESEARCH FUNDING

Shanghai Xuhui District Health Committee, Youth Program 2024-2026
Title: *Understanding Addiction Abnormalities and Treatment using Methadone Maintenance Treatment Populations: from Brain Connectome-Based Perspective*
Role: Leader **Total: 50,000 CNY**

Shanghai Xuhui District Health Committee, Key Medical Discipline Program 2024-2026
Title: *Based on The Network Theory of Mental Disorders to Understanding the Inter-relationship between Depressive and Anxiety Symptoms in Suicidal Ideation*
Role: Leader **Total: 30,000 CNY**

Sun Yat-Sen University, Innovation Training Project for Undergraduates 2019-2020
Title: *The Impact of Perceived Social Support and Self-Compassion on College Students' Physical and Mental Health: A Study of Problematic Eating Behaviors.*
Role: co-Leader **Total: 3,000 CNY**