

Wan-Yu Shih

Institute of Neuroscience, National Yang Ming Chiao Tung University
No.155, Sec.2, Linong Street, Taipei, 112 Taiwan (ROC)

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EDUCATION

- 2015-2023 **Ph.D. in Neuroscience**
National Yang Ming Chiao Tung University, Taipei, Taiwan
Dissertation: Using human intracranial electrophysiology to investigate temporal context effects on decision making
Advisor: Dr. Shih-Wei Wu
- 2011-2014 **MS in Cognitive Neuroscience**
National Central University, Zhongli, Taiwan
Thesis: The probability of the prospective memory cue presentation modulates the prospective interference effect: Behavioral and ERP studies.
Advisor: Dr. Shih-Kuen Cheng
- 2006-2011 **BS in Pharmacy**
China Medical University, Taichung, Taiwan

EXPERIENCE

Postdoctoral Fellow

2024-Present Institute of Neuroscience, National Yang Ming Chiao Tung University, Taipei, Taiwan

Research Assistance

2014-2015 Department of Occupational Therapy and Graduate Institute of Behavioral Sciences, Chang Gung University, Taoyuan, Taiwan

Teaching Assistant

2016-2021 Institute of Neuroscience, National Yang Ming Chiao Tung University, Taipei, Taiwan

Course: Mathematical Statistics (2016-2018), Decision making and the brain (2021)

HONORS AND AWARDS

2022 High Distinguish Award in the Student Presentation Competition at the 2022 Taiwan Society of Cognitive Neuroscience Annual Meeting

2019-2020 Fulbright Foreign Student

2019-2020 Ministry of Science and Technology Overseas Project for Post Graduate Research

RESEARCH SKILLS

Programming: Matlab, Python, Linux shell languages

Statistical Analysis: R, SPSS

EEG/intracranial EEG: Analyze data using **EEGLAB** (toolbox of Matlab)

fMRI: Analyze data using the **FMRIB Software Library (FSL)**

PUBLICATION

Shih, W.-Y., Yu, H.-Y., Lee, C.-C., Chou, C.-C., Chen, C., Glimcher, P. W., & Wu, S.-W. (2023). Electrophysiological population dynamics reveal context dependencies during decision making in human frontal cortex. *Nature Communications*, 14(1), 7821. <https://doi.org/10.1038/s41467-023-42092-x>

Chang, Y. T., Chen, H. Y., Huang, Y. C., **Shih, W. Y.**, Chan, H. L., Wu, P. Y., ... Wang, C. I. (2018). Left centro-parieto-temporal response to tool-gesture incongruity: An ERP study. *Behavioral and Brain Functions*, 14(1), 1–10.

PRESENTATIONS

Wan-Yu Shih, Shih-Wei Wu (2023). Individual differences in subjective-value adaptation. Presented at the 30th Anniversary Meeting of the Cognitive Neuroscience Society, San Francisco, USA.

Wan-Yu Shih, Hsiang-Yu Yu, Cheng-Chia Lee, Chien-Chen Chou, Chien Chen, Paul W. Glimcher, Shih-Wei Wu (2022). Human orbitofrontal cortex represents the subjective value of the present, and the past food rewards. Presented at the 2022 Annual Meeting of Taiwan Society of Cognitive Neuroscience. (Online meeting)

Wan-Yu Shih, Shih-Wei Wu (2020). Past and current subjective-value signals in the human orbitofrontal cortex (OFC):A stereo-electroencephalography (sEEG) Study. Presented at the 1st Taiwan Society for Neuroscience meeting, Taoyuan, Taiwan.

Wan-Yu Shih, Paul W. Glimcher, Chien-Chen Chou, Jeng-Ren Duann, Cheng-Chia Lee, Shih-Chieh Lin, Hsiang-Yu Yu, Shih-Wei Wu (2018). Evidence for past and present subjective value signals in the human orbitofrontal cortex. Presented at Society for NeuroEconomics Annual Meeting 2018, Philadelphia, USA.

Wan-Yu Shih, Shih-Wei Wu (2017). Context effects on subjective probability and choice under risk. Presented at the 47th Annual Meeting of the Society for Neuroscience, Washington, DC, USA.

Wan-Yu Shih, Shih-kuen Cheng (2014). Behavioral and neural correlates of prospective monitoring in event-based prospective memory. Presented at the 2nd

Annual Meeting of the Taiwan Society of Cognitive Neuroscience, Zhongli, Taoyuan, Taiwan.

Jingling Li, **Wan-Yu Shih**, Tzu-Hui Pao (2010). Expectation overcomes the impairments induced by a large task-irrelevant salient line in visual search. Presented at 2010 Asia Pacific Conference on Vision, Taipei, Taiwan.

Yi-Ying Chen, **Wan-Yu Shih**, Wen-Tsong Hsieh, Miao-Rong Lee (2009). PA-A and PA-E inhibit LPS-induced inflammatory responses in murine macrophage RAW264.7 cells. Presented at the 17th symposium on recent advances in Cellular and Molecular Biology, Ken-Ting, Taiwan.

Yi-Jen Chen, **Wan-Yu Shih**, Shu-Fen Chiou, Yu-Hsin Lin, Miao-Rong Lee (2008). Study on Immune Response of Macrophage to Nanoparticles. Presented at 2008 Nano Scale Technology and Materials Symposium, Dacun, Changhua, Taiwan.