Yi-Chun Tsai

Education

- Feb. 2018 – June. 2023 **Institute of Cognitive Neuroscience,**
  National Central University, Jhongli, Taiwan
  Degree: Doctor of Philosophy
  Supervised by Chi-Hung Juan Ph.D. & Cheng-Ta Li M.D.
  Dissertation: The investigation of the critical role of brain oscillations in prefrontal repetitive transcranial magnetic stimulation for treatment-resistant depression
- Sep. 2010 - Jul. 2013 **Institute of Neuroscience, School of Life Sciences,**
  National Yang Ming Chiao Tung University, Taipei, Taiwan
  Degree: Master of Science
  Thesis: The influence of repressive coping style and high anxiety individuals on interactions of emotional states and inhibitory control: An event-related potential study.
- Sep. 2006- Jun.2010 **Department of Psychology, College of Social Sciences,**
  National Chung Cheng University, Chiayi, Taiwan
  Degree: Bachelor of Science

Work experiences

- Aug. 2024 – present **Project Assistant Research Fellow**
  Cognitive Intelligence & Precision Healthcare Center
  National Central University, Jhongli, Taiwan
- Aug. 2023 – Jul. 2024 **Postdoctoral Research Fellow**
  Cognitive Intelligence & Precision Healthcare Center
  National Central University, Jhongli, Taiwan
- Jul. 2015 – Jan. 2018 **Research assistant**
  Institute of Cognitive Neuroscience,
  National Central University, Jhongli, Taiwan
  Supervised by Chi-Hung Juan Ph.D.

Publications

- **Tsai, Y. C.**, Li, C. T., & Juan, C. H.* (2023). A review of critical brain oscillations in depression and the efficacy of transcranial magnetic stimulation treatment. *Frontiers in Psychiatry, 14*, 1073984. (SSCI, IF = 5.435, PSYCHIATRY 40/144, Q2)
- **Tsai, Y. C.**, Li, C. T.*, Liang, W. K., Muggleton, N. G., Tsai, C. C., Huang, N. E., & Juan, C. H.* (2022). Critical role of rhythms in prefrontal transcranial magnetic stimulation for depression: A

randomized sham-controlled study. *Human Brain Mapping*, *43*(5), 1535-1547. (SCIE, IF = 5.399, NEUROIMAGING 3/14, Q1)

- Li, C. T., Cheng, C. M., Juan, C. H., **Tsai, Y. C.**, Chen, M. H., Bai, Y. M., Tsai, S. J., & Su, T. P. (2021). Task-Modulated Brain Activity Predicts Antidepressant Responses of Prefrontal Repetitive Transcranial Magnetic Stimulation: A Randomized Sham-Control Study. *Chronic stress*, *5*, 24705470211006855. (IF = 4.18, PSYCHIATRY & MENTAL HEALTH, Q1).
- **Tsai, Y. C.**, Lu, H. J., Chang, C. F., Liang, W. K., Muggleton, N. G., & Juan, C. H.* (2017). Electrophysiological and behavioral evidence reveals the effects of trait anxiety on contingent attentional capture. *Cognitive, Affective, & Behavioral Neuroscience, 17*(5), 973-983. (SCIE, IF = 2.98, BEHAVIOAL NEUROSCIENCE, Q1)

Skills

- Cognitive neuroscience measurements: EEG, transcranial magnetic stimulation (TMS)
- EEG data analysis software: EEGlab, NeuroScan, SPM12, HHSA toolbox
- Programming software: Matlab, E-prime
- Statistics software: SPSS, R
- Office software: Familiar with Microsoft Word, Excel, and PowerPoint
- Languages: Proficient: Mandarin Chinese; Intermediate: English

Awards

- 112 年度蘇薌雨心理學學位論文獎博士論文乙組佳作
  2023 Su XiangYu Dissertation Award for Psychology_ excellent in Group B
- 111 年度國科會獎勵人文與社會科學領域博士候選人撰寫博士論文獎學金
  2022 National Science and Technology Council_ Scholarships for writing doctoral dissertations for doctoral candidates in the humanities and social sciences
- 111 年度中央大學優秀學生獎學金
  2022 National Central University_ Scholarship for Excellent Students
- 110 年中央大學生命科學暨醫療科技研究成果全英語口頭發表競賽第二名
  2021 The second place of National Central University Life Science and Medical Technology Research Achievement English Presentation Contest
- 107 年度認知所績優入學獎學金
  2018 Institute of Cognitive Neuroscience_ Merit Entrance Scholarship
- 107 年度中央大學博士班入學獎學金
  2018 National Central University_ Ph.D Entrance Scholarship