

蔡瑛 特聘副研究员

研究领域：认知神经科学 认知心理学

个人经历

- 2019.9 至今 中国-浙江大学 特聘副研究员
- 2012.9-2019.6 中国-北京师范大学 理学博士
- 2016.9-2018.6 美国-威斯康星大学麦迪逊分校 访问学者
- 2008.9-2012.6 中国-安徽大学 理学学士



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主要研究方向

探索学习与记忆、认知控制及元认知等心理过程的神经机制，开发提高个体认知能力的干预途径，主要研究方法包括行为实验、功能性磁共振 (fMRI)、脑电 (EEG)，经颅电刺激 (tDCS) 等。

代表性论文

- 1) Cai, Y., Sheldon, D., Yu, Q., & Postle, B. R. (2019). Overlapping and Distinct Contributions of Stimulus Location and of Spatial Context to Nonspatial Visual Short-Term Memory. *Journal of Neurophysiology*.
- 2) Cai, Y., Yu, Q., Sheldon, A., & Postle, B. (2018). The Role of Location-Context Binding in Nonspatial Visual Working Memory. *bioRxiv*.
- 3) Cai, Y., Urgolites, Z., Wood, J., Chen, C., Li, S., Chen, A., & Xue, G. (2018). Distinct neural substrates for visual short-term memory of actions. *Hum Brain Mapp*.
- 4) Li, S., Cai, Y., Liu, J., Li, D., Feng, Z., Chen, C., & Xue, G. (2017). Dissociated roles of the parietal and frontal cortices in the scope and control of attention during visual working memory. *NeuroImage*, 149, 210-219.
- 5) Cai, Y., Li, S., Liu, J., Li, D., Feng, Z., Wang, Q., . . . Xue, G. (2016). The Role of the Frontal and Parietal Cortex in Proactive and Reactive Inhibitory Control: A Transcranial Direct Current Stimulation Study. *J Cogn Neurosci*, 28(1), 177-186. doi:10.1162/jocn_a_00888
- 6) Wang, Q., Chen, C., Cai, Y., Li, S., Zhao, X., Zheng, L., . . . Xue, G. (2016). Dissociated neural substrates underlying impulsive choice and impulsive action. *NeuroImage*, 134, 540-549.
- 7) Yang, H., Cai, Y., Liu, Q., Zhao, X., Wang, Q., Chen, C., & Xue, G. (2015). Differential Neural Correlates Underlie Judgment of Learning and Subsequent Memory Performance. *Front Psychol*, 6.

代表性会议报告

- 1) Cai, Y., Samaha, J., Postle, B.R. (2018). Reconstructing Stimulus Identity and Context Binding from the CDA. *Nanosymposium talk*. Society for Neuroscience, 2018, San Diego, US;
- 2) Cai, Y., Sheldon, A.D., Postle, B.R. (2018). The Influence of Storage Capacity Versus Control in Visual Short-Term Memory Capacity Limitation, *Data-Blitz and poster presented*, Cognitive Neuroscience Society, 2018, Boston, US;
- 3) Cai, Y., Sheldon, A.D., Postle, B.R. (2017). The Neural Representation of Stimuli and Location Contribute to the Recall Precision for Stimuli in Visual Short-term Memory. Poster presented, Society for Neuroscience, 2017, Washington, DC, US;
- 4) Cai Y., Xue G. (2015). The Role of tDCS in Modulating Cognitive Functions. *Nanosymposium talk*, The 6th FAONS Congress & The 11th Biennial Conference of CNS. 2015, Wuzhen, China;
- 5) Cai Y., Li S., Xue G. (2014). Domain-Specific and Domain-General Neural Architecture of Human Visual Short-Term Memory. *Trainee Abstract Travel Award and poster presented*, Annual meeting of the Organization for Human Brain Mapping, Hamburg, Germany;

学生指导经历

- 2014.9-2016.6 蒋黄麒等, 本科生研究助理, 北京师范大学
- 2017.7-2017.9 Dayana Banuelos, The Psychology Research Experience Program (PREP), Undergraduate, California State University, Northridge

学术组织成员

- 2012-present Organization of Human Brain Mapping (OHBM)
- 2016-present Society for Neuroscience (SfN)
- 2017-present Society for Cognitive Neuroscience (CNS)