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Research Interests

Brain network modeling and analysis; brain information decoding; brain signal processing

Academic Publication

- Hongyan Wang#, **Gaoyan Zhang**#, Baolin Liu, 2016. Influence on cross-modal semantic priming effect from auditory spatial attention: evidence from N400 effect. *Experimental Brain Research*, in press (#: Co-first author; SCI: 5-year IF=2.057).
- **Gaoyan Zhang**, Li Yao, Xiaojie Zhao, 2016. Neural Effect of Real Time fMRI Based Working Memory Neurofeedback Training on the Cortico-Subcortico-Cerebellar Circuit. *Journal of medical imaging and health informatics*, in press (SCI: 5-year IF=0.877).
- **Gaoyan Zhang**, Yue Cheng, Baolin Liu, 2016. Abnormalities of voxel-based whole-brain functional connectivity patterns predict the progression of hepatic encephalopathy. *Brain Imaging and Behavior*, in press (SCI: 5-year IF = 4.595).
- **Gaoyan Zhang**, Li Yao, Jiahui Shen, Yihong Yang, Xiaojie Zhao, 2015. Reorganization of functional brain networks mediates the improvement of cognitive performance following real-time neurofeedback training of working memory. *Human Brain Mapping*, 36(5):1705-1715. (SCI: 5-year IF = 6.956).
- Jiahui Shen#, **Gaoyan Zhang**#, Li Yao, Xiaojie Zhao, 2015. Real-time fMRI training-induced changes in regional connectivity mediating verbal working memory behavioral performance, *Neuroscience*, 289(2015):144-152. (#: Co-first author; SCI: 5-year IF = 3.458).
- Qiushi Zhang, **Gaoyan Zhang**, Li Yao, Xiaojie Zhao, 2015. Impact of real-time fMRI working memory feedback training on the interactions between three core brain networks, *Frontiers in behavioral neuroscience*, 9 (2015):1-9. (SCI: 5-year IF=3.3).
- **Gaoyan Zhang**, Li Yao, Hang Zhang, Zhiying Long, Xiaojie Zhao, 2013. Improved working memory performance through self-regulation of dorsal lateral prefrontal cortex activation using real-time fMRI. *Plos One*, 8(8): e73735 ((SCI: 5-year IF=4.015)).
- **Gaoyan Zhang**, Hang Zhang, Xiaoli Li, Xiaojie Zhao, Li Yao, Zhiying Long, 2013. Functional alteration of the DMN by learned regulation of the PCC using real-time fMRI. *IEEE Transactions on Neural System & Rehabilitation Engineering*, 4(21):595-606 (SCI: 5-year IF = 3.265).
- Yuke Si, Jianwu Dang, **Gaoyan Zhang***. Investigation of the Spatiotemporal Dynamics of the Brain during Perceiving Words, *International Symposium on Chinese Spoken Language Processing (ISCSLP)* Oct 17-20, 2016, Tianjin, P. R. China (EI).
- Bin Zhao, Jianwu Dang, **Gaoyan Zhang***. EEG Evidence for a Three-Phase Recurrent Process during Spoken Word Processing, *International Symposium on Chinese Spoken Language Processing (ISCSLP)* Oct 17-20, 2016, Tianjin, P. R. China (EI).
- Bin Zhao, Jianwu Dang, **Gaoyan Zhang***, "Investigation of Noun-Verb Dissociation Based on EEG Source Reconstruction", *Asia-Pacific-Signal-and-Information-Processing-Association Annual Summit and Conference (APSIPA ASC)*. DEC 13-16, 2016, JEJU, Korea (EI).
- Guancheng Li, Jianwu Dang, **Gaoyan Zhang**, Zhilei Liu, Hongcui Wang. Investigation of relation between

