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研究领域：脑成像 (Neuroimaging), 神经调制(Neuromodulation)  
 脑可塑性(Brain Plasticity), 学习和成瘾(Learning and Addiction)

**研究策略：**使用脑成像技术来理解心理过程及精神疾病的神经基础，进而改进和发展能解释所研究问题的脑网络模型，再结合神经调制技术来验证和优化模型、治疗精神疾病、辅助学习

**研究问题：**大脑有什么样的可塑性？在正常学习过程中大脑发生什么样的改变? 在过度学习(比如游戏和药物成瘾)中的大脑发生了什么变化？这些变化如何影响认知和行为？等等

**代表性论文**

1. **Yuzheng Hu**, Betty Jo Salman, Hong Gu, Elliot A. Stein and Yihong Yang. Impaired Functional Connectivity Within and Between Frontostriatal Circuits and Its Association with Compulsive Drug Use and Trait Impulsivity in Cocaine Addiction. *JAMA Psychiatry.* 2015, 72(6):584-592. **IF=15.31**
2. Xiujuan Geng\*, **Yuzheng Hu**\*, Hong Gu, Betty Jo Salmeron, Elliot A. Stein, Yihong Yang. Abnormal Cortical Thickness and Related Functional Connectivity in the Salience and Default Mode Networks of Chronic Cocaine Users. *Brain.* 2017, 140(5):1513-1524. *[\* Co-first author]* **IF=10.29**
3. **Yuzheng Hu**, Xi Chen, Hong Gu and Yihong Yang. Resting-state Glutamate and GABA Concentrations Predict Task-induced Deactivation in the Default Mode Network. *The Journal of Neuroscience.* 2013, 33(47):18566-18573. **IF=5.92**
4. **Yuzheng Hu**, Fengji Geng, Lixia Tao, Nantu Hu, Fenglei Du, Kuang Fu and Feiyan Chen. Enhanced White Matter Tracts Integrity in Children with Abacus Training. Human Brain Mapping. 2011, 32(1):10-21.**IF=4.53**
5. Xi Chen Xiaoying Fan, **Yuzheng Hu**, Chun Zuo, Susan Gabrieli, Daphne Holt, Qiyong Gong, Diego Pizzagalli, Fei Du and Dost Ongur. Regional GABA concentrations modulate inter-network resting-state functional connectivity. Cerebral Cortex, *2018, online* **IF=8.23**

**荣誉奖励**

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