

# Curriculum Vitae

▶ Ke-Hsin Chen 陳可欣

[chenkehsin@ntu.edu.tw](mailto:chenkehsin@ntu.edu.tw), [chenkehsin@gmail.com](mailto:chenkehsin@gmail.com)

## Education

### Ph.D. (July, 2017)

Department of Psychology, National Taiwan University, Taipei, Taiwan

Dissertation: Fear conditioning altered BOLD responses and functional connectivity in dexmedetomidine-sedated rats

Advisor: Prof. Keng-Chen Liang

### M.S. (July, 2007)

Department of Psychology, National Taiwan University, Taipei, Taiwan

Thesis: Manganese-enhanced magnetic resonance imaging (MEMRI) reveals functional connectivity associated with learning

Advisor: Prof. Keng-Chen Liang

### B.S. (July, 2004)

Department of Psychology, National Taiwan University, Taipei, Taiwan

## Technical Skills

- ◆ Animal behavioral tasks on rats: inhibitory avoidance, fear potentiated startle, contextual fear conditioning
- ◆ Stereotaxic surgery, microelectrode/cannula implantation
- ◆ Rodent fMRI, manganese-enhanced MRI by Bruker 7T Biospec system
- ◆ Imaging analysis by AFNI

## Experience

### Research assistant (2007–2010)

Brain Connectivity Lab, Institute of Neuroscience, National Yang-Ming University

PI: Prof. Ching-Po Lin

Work: running fMRI studies, analyzing imaging data by SPM

### Research specialist (2017/10-2018/03)

Department of Psychology, National Taiwan University

### Post-doc researcher (2018/04-now)

Research Institute for the Humanities and Social Sciences, Ministry of Science and Technology

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## Journal Articles

Ke-Hsin Chen, Der-Yow Chen, and K. C. Liang (2013). Functional Connectivity Changes during Consolidation of Inhibitory Avoidance Memory in Rats: A Manganese-Enhanced MRI Study. *Chinese Journal of Physiology*, 56, 269-281.

Jun-Cheng Weng, Maria A. Tikhonova, Jian-Hong Chen, Mei-Shiuan Shen, Wan-Yun Meng, Yen-Ting Chang, Ke-Hsin Chen, Keng-Chen Liang, Ching-Sui Hung, Tamara G. Amstislavskaya, and Ying-Jui Ho (2016). Ceftriaxone prevents the neurodegeneration and decreased neurogenesis seen in a Parkinson's disease rat model: An immunohistochemical and MRI study. *Behavioural Brain Research*, 305, 126-139.

## Poster Presentation

Ke-Hsin Chen, Der-Yow Chen, and K. C. Liang (2018). Functional connectivity between the mediodorsal thalamic nucleus and frontal cortex accounts for the variability in fear memory acquired under dexmedetomidine. The 48th Annual Meeting of Society for Neuroscience.

Ke-Hsin Chen, Der-Yow Chen, and K. C. Liang (2017). Fear conditioning altered BOLD responses in dexmedetomidine-sedated rats. The 47th Annual Meeting of Society for Neuroscience.

Der-Yow Chen, Ke-Hsin Chen, and K. C. Liang (2016). Visual BOLD responses of dexmedetomidine-anesthetized rats to flashing light stimulation in an fMRI study. The 46th Annual Meeting of Society for Neuroscience.

Ke-Hsin Chen, Der-Yow Chen, & K. C. Liang (2015). Resting state functional connectivity reveals the interaction between dorsal hippocampus and medial prefrontal cortex in memory consolidation of inhibitory avoidance task. The 45th Annual Meeting of Society for Neuroscience.

Ke-Hsin Chen, and K. C. Liang (2015). The unit activity of medial prefrontal cortex altered during retrieving recent and remote memory of the inhibitory avoidance task. The 38th Annual Meeting for Japan Neuroscience Society.

Ke-Hsin Chen, Der-Yow Chen, & K. C. Liang (2013). Manganese-enhanced MRI reveals neuronal activity changes for memory consolidation in an inhibitory avoidance task. The 43th Annual Meeting of Society for Neuroscience.

Ke-Hsin Chen, Yi-Ping Chao, Chun-Yi Lo, & Ching-Po Lin (2009). Functional MRI results guided ROI selection & probability map making on DTI study: the white matter route for orthography-to-phonology transformation in Chinese. ISMRM 17th Annual Scientific Meeting and Exhibition.

Ke-Hsin Chen, Der-Yow Chen, Jyh-Hong Chen, & K. C. Liang (2006). Functional connectivity revealed by manganese-enhanced MRI with micro-infusion of Mn<sup>2+</sup> into the amygdala and hippocampus in a behavioral task. The 38th Annual Meeting of Society for Neuroscience.