

## CURRENT POSITION

Postdoctoral scholar in Markus Meister Lab in California Institute of Technology

## EDUCATION

Ph.D. of Physiology and Biophysics 2014  
Keck School of Medicine, University of Southern California, CA, U.S.A.  
Dissertation Title: *Functional Synaptic Circuits in Primary Visual Cortex*  
Mentors: Li I Zhang, Ph.D. and Huizhong Whit Tao, Ph.D.

M.S. of Computational Neuroscience 2008  
Nankai University, Tianjin, P. R. China  
Mentor: Tao Zhang, Ph.D.

B.S. of Biophysics 2005  
Nankai University, Tianjin, P. R. China

## PUBLICATION

1. Li LY, Ji XY, Liang F, **Li YT**, Xiao Z, Tao HW, Zhang LI (2014) A Feedforward Inhibitory Circuit Mediates Lateral Refinement of Sensory Representation in Upper Layer 2/3 of Mouse Primary Auditory Cortex. *J Neurosci* 34: 13670-13683.
2. Tao HW, **Li YT**, Zhang LI (2014) Formation of excitation-inhibition balance: inhibition listens and changes its tune. *Trends Neurosci* 37:528-530.
3. **Li YT**, Liu BH, Chou XL, Zhang LI, Tao HW (2014) Strengthening of Direction Selectivity by Broadly Tuned and Spatiotemporally Slightly Offset Inhibition in Mouse Visual Cortex. *Cerebral Cortex*; doi: 10.1093/cercor/bhu049.
4. **Li YT**, Ibrahim LA, Liu BH, Zhang LI, Tao HW (2013) Linear Transformation of Thalamocortical input by Intracortical Excitation. *Nat Neurosci* 16: 1324–1330.
5. Li LY, **Li YT**, Zhou Mu, Tao HW, Zhang LI (2013) Intracortical Multiplication of Thalamocortical Signals in Mouse Auditory Cortex. *Nat Neurosci* 16: 1179–1181.
6. Ma WP\*, **Li YT\***, Tao HW (2013) Down-regulation of Cortical Inhibition Mediates Ocular Dominance Plasticity During the Critical Period. *J Neurosci* 33: 11276-11280. (\* equal contribution)
7. **Li YT**, Ma WP, Li LY, Ibrahim LA, Wang SZ, Tao HW (2012) Broadening of Inhibitory Tuning Underlies Contrast-Dependent Sharpening of Orientation Selectivity in Mouse Visual Cortex. *J Neurosci* 32:16466-16477.
8. **Li YT**, Ma WP, Pan CJ, Zhang LI, Tao HW (2012) Broadening of Cortical Inhibition Mediates Developmental Sharpening of Orientation Selectivity. *J Neurosci* 32:3981-3991.
9. Liu BH\*, **Li YT\***, Ma WP, Pan CJ, Zhang LI, Tao HW (2011) Broad inhibition sharpens orientation selectivity by expanding input dynamic range in mouse simple cells. *Neuron* 71:542-554. (\* equal contribution)

10. Ma WP, Liu BH, **Li YT**, Huang ZJ, Zhang LI, Tao HW (2010) Visual representations by cortical somatostatin inhibitory neurons--selective but with weak and delayed responses. *J Neurosci* 30:14371-14379.
11. Liu BH, Li P, Sun YJ, **Li YT**, Zhang LI, Tao HW (2010) Intervening inhibition underlies simple-cell receptive field structure in visual cortex. *Nat Neurosci* 13:89-96.
12. Liu BH, Li P, **Li YT**, Sun YJ, Yanagawa Y, Obata K, Zhang LI, Tao HW (2009) Visual receptive field structure of cortical inhibitory neurons revealed by two-photon imaging guided recording. *J Neurosci* 29:10520-10532.
13. **Li YT**, Qiu JH, Yang Z, Edward JJ, Zhang T (2008) Long-range correlation of renal sympathetic nerve activity in both conscious and anesthetized rats. *J Neurosci Meth* 172:131-136.
14. **Li YT**, Qiu JH, Yan R, Yang Z, Zhang T (2008) Weakened long-range correlation of renal sympathetic nerve activity in Wistar rats after anaesthesia. *Neurosci Lett* 433:28-32.

## **SELECT AWARDS**

2015 – 2018	Helen Hay Whitney Foundation Fellowship
2013	Chinese Government Award for Outstanding Self-Financed Students Abroad
2013	Academic Professional Development Award, Enhancing Diversity in Graduate Education
2011	Zach Hall Travel Award