Jingpeng Wu

Education

- 2009–2014 **Doctor's Degree**, Huazhong University of Science & Technology, Biomedical Engineering.
- 2005–2009 **Bachelor's Degree**, Huazhong University of Science & Technology, Bioinformatics.

Experience

- 2014-present **Postdoctoral Research Associate**, *Princeton Neuroscience Institute*, Princeton University, Large scale neuron reconstruction using cloud computing.
 - 2011–2014 **Doctoral Student**, *Britton Chance Center for Biomedical Photonics*, HUST, Tracing and analyzing the neuronal projection and blood vessels of the whole mouse brain.
 - 2009–2010 **Doctoral Candidate**, *Britton Chance Center for Biomedical Photonics*, HUST, Image processing for the images from micro-optical sectioning tomography.

 I engaged in developing the Micro-optical Sectioning Tomography(MOST). We obtained an atlas of whole mouse brain with the highest resolution in the world until now.
 - 2008–2011 Administrator of the central cluster of CBMP, Britton Chance Center for Biomedical Photonics, HUST, I managed the cluster of our lab. I also developed a parallel image preprocessing program for MOST using MPI and ITK in Linux environment..
- Summer 2008 **summer intern**, *CAS-MPG Partner Institute (PICB)*, Shanghai, Gene expression analysis of repeats in the prefrontal cortex.
 - 2006–2008 **Undergraduate**, *Britton Chance Center for Biomedical Photonics*, HUST, Vascular reconstruction of Chinese Digital Human.

Awards

2014	Distinguished Graduate Student	Huazhong University of Science & Technology
2014	Star of Science & Technology	Wuhan National Laboratory for Optoelectronics
2013	Sanhao Graduate Student	Huazhong University of Science & Technology
2013	Discipline Contribution Award	Huazhong University of Science & Technology
2010	Outstanding Cadres	Huazhong University of Science & Technology
2010	Achievement in Science and Technology	y Award Huazhong University of Science &
		Technology

Professional Societies

2013, 2016 Member of the Society for Neuroscience

Publications

Anan Li, Hui Gong, Bin Zhang, Qingdi Wang, Cheng Yan, <u>Jingpeng Wu</u>, Qian Liu, Shaoqun Zeng, and Qingming Luo. Micro-optical sectioning tomography to obtain a high-resolution atlas of the mouse brain. *Science*, 330(6009):1404–1408, 2010.

Jingpeng Wu, Yong He, Zhongqin Yang, Congdi Guo, Qingming Luo, Wei Zhou, Shangbin Chen, Anan Li, Benyi Xiong, Tao Jiang, and Hui Gong. 3D BrainCV: simultaneous visualization and analysis of cells and capillaries in a whole mouse brain with one-micron voxel resolution. *Neuroimage*, 87:199–208, 2014.

<u>Jingpeng Wu</u>, Congdi Guo, Shangbin Chen, Tao Jiang, Yong He, Wenxiang Ding, Zhongqin Yang, Qingming Luo, and Hui Gong. Direct 3D cellular and vascular analysis reveals inter-columnar vascular branching and columnar capillary bed distribution in the mouse barrel cortex. *Cerebral Cortex*, 26:23–31, 2016.

Hui Gong, Shaoqun Zeng, Cheng Yan, Xiaohua Lv, Zhongqin Yang, Tonghui Xu, Zhao Feng, Wenxiang Ding, Xiaoli Qi, Anan Li, <u>Jingpeng Wu</u>, and Qingming Luo. Continuously tracing brain-wide long-distance axonal projections in mice at a one-micron voxel resolution. *Neuroimage*, 74:87–98, 2013.

Wenxiang Ding, Anan Li, <u>Jingpeng Wu</u>, Zhongqin Yang, Yunlong Meng, Simin Wang, and Hui Gong. Automatic macroscopic density artefact removal in a nissl-stained microscopic atlas of whole mouse brain. *Journal of Microscopy*, 251(2):168–177, 2013.

Bin Zhang, Anan Li, Zhongqin Yang, <u>Jingpeng Wu</u>, Qingming Luo, and Hui Gong. Modified golgi-cox method for micrometer scale sectioning of the whole mouse brain. *Journal of Neuroscience Methods*, 197(1):1–5, 2011.

Xing Ming, Anan Li, <u>Jingpeng Wu</u>, Cheng Yan, Wenxiang Ding, Hui Gong, Shaoqun Zeng, and Qian Liu. Rapid reconstruction of 3D neuronal morphology from light microscopy images with augmented rayburst sampling. *PLoS ONE*, 8(12):e84557, 2013.

<u>Jingpeng Wu</u>, Hang Feng, Chen Huang, Hui Gong, and Li Anan. Tracing segmentation and loft reconstruction method for blood vessels on chinese digital human. *Computer and Digital Engineering (Chinese Journal)*, 38(11):132–135, 2010.