

## **Personal Information**

**LIU Yong** PhD. 刘勇

Dr. Yong Liu is a professor in Brainnetome Center, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences (CASIA). He received his PhD degree from CASIA in 2008 and obtained his MSc degree from Beijing University of Technology in 2005. Since June 2008, he joined CASIA as an assistant/associate/full professor. He is a visiting scholar from April 2011 to March 2012 in Brain Mapping Unit in University of Cambridge, where he worked with Professor Ed Bullmore.



To date, he has authored more than 80 peer-reviewed journal articles (including Brain, Cerebral Cortex, NeuroImage, Human Brain Mapping) and has an h-index of 37. His main interests are the brain networks and its application in cognitive disorders.

In recent years, his work focuses on studying generalizable, reproducible, and neuroscientifically interpretable imaging biomarkers for Alzheimer Disease based on multi-center and multi-modal imaging.

- His short CV can be found @ <http://www.brainnetome.org/people/faculty/YongLiu/>
- ORCID: <http://orcid.org/0000-0002-1862-3121>
- Scopus ID: 55742196400
- Research Gate: [https://www.researchgate.net/profile/Yong\\_Liu72](https://www.researchgate.net/profile/Yong_Liu72)
- Email: [yliu@nlpr.ia.ac.cn](mailto:yliu@nlpr.ia.ac.cn) or [yong.liu@ia.ac.cn](mailto:yong.liu@ia.ac.cn)
- Telephone: 86-10-8254 4768
- Address: No. 95 Zhong-guan-cun East Road, Haidian District, Beijing, 100190, China

## **Education**

- Ph.D. in Pattern Recognition and Intelligence System Sept. 2005-Jul. 2008  
National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, Beijing, China
- M.S. in Mathematics Sept. 2002-Jul. 2005  
Dept. of Mathematics, Beijing University of Technology, Beijing, China
- B.S. in Mathematics Sept. 2002-Jul. 2005  
Dept. of Mathematics, Qufu Normal University, Shandong, China

## **Work Experience**

- Assistant Research Professor, Institute of Automation, Chinese Academy of Sciences Jul. 2008 --- Sept. 2011
- Associated Research Professor, Institute of Automation, Chinese Academy of Sciences Oct. 2011 --- Sept. 2016
- Visiting Scholar, Brain Mapping Unit, University of Cambridge Apr. 2011 --- Mar. 2012
- Professor, Institute of Automation, Chinese Academy of Sciences Oct. 2016 --- now
- Professor, University of Chinese Academy of Sciences Mar. 2017 --- now

## Research Interests

- Machine learning based on multi-center and multi-modal Brain Imaging
- Brain network and its alteration in brain diseases

**Bibliography (Google Scholar)** Researcher ID: [F-2682-2011](#) ORCID: [0000-0002-1862-3121](#)

### **Selected Journal Publications (\* senior author)**

- [1] Jin D<sup>#</sup>, Zhou B<sup>#</sup>, Han Y, Ren J, Han T, Liu B, Lu J, Song C, Wang P, Wang D, Xu J, Yao H, Yang Z, Yu C, Zhao K, Wintermark M, Zuo N, Zhang X, Zhou Y, Zhang X, Jiang T, Wang Q\*, [Liu Y\\*](#). Generalizable, reproducible, and neuroscientifically interpretable imaging biomarkers for Alzheimer's Disease. *Advanced Science*. 2020.
- [2] Zhao K, Ding Y, Han Y, Fan Y, Alexander-Bloch AF, Han T, Jin D, Liu B, Lu J, Song C, Wang P, Wang D, Wang Q, XU K, Yang H, Yao H, Zheng Y, Yu C, Zhou B, Zhang X, Zhou Y, Jiang T, Zhang X\*, [Liu Y\\*](#). Independent and reproducible hippocampal radiomic biomarkers for multisite Alzheimer's disease: diagnosis, longitudinal progress and biological basis. *Science Bulletin*. 2020. (封面文章)
- [3] Jin D<sup>#</sup>, Wang P<sup>#</sup>, Zalesky A, Liu B, Song C, Wang D, Xu K, Yang H, Zhang Z, Yao H, Zhou B, Han T, Zuo N, Han Y, Lu J, Wang Q, Yu C, Zhang X, Zhang X, Jiang T, Zhou Y\*, [Liu Y\\*](#). Grab-AD: Generalizability and Reproducibility of Altered Brain activity and diagnostic classification in Alzheimer's Disease. *Hum Brain Mapp*. 2020.
- [4] Dou X<sup>#</sup>, Yao H<sup>#</sup>, Feng F, Wang P, Zhou B, Jin D, Yang Z, Li J, Zhao C, Wang L, An N, Liu B, Zhang X\*, [Liu Y\\*](#). Characterizing white matter connectivity in Alzheimer's disease and mild cognitive impairment: An automated fiber quantification analysis with two independent datasets. *Cortex*. 2020.
- [5] Wang P, Zhou B, Yao H, Xie S, Feng F, Zhang Z, Guo Y, An N, Zhou Y\*, Zhang X\*, [Liu Y\\*](#). Aberrant hippocampal functional connectivity is associated with fornix white matter integrity in Alzheimer's disease and mild cognitive impairment. *J Alzheimers Dis*. 2020.
- [6] Li J<sup>#</sup>, Jin D<sup>#</sup>, Li A, Liu B, Song C, Wang P, Wang D, Xu K, Yang H, Yao H, Zhou B, Bejanin A, Chetelat G, Han T, Lu J, Wang Q, Yu C, Zhang X, Zhou Y, Zhang X, Jiang T, [Liu Y\\*](#), Han Y\*. ASAF: altered spontaneous activity fingerprinting in Alzheimer's disease based on multisite fMRI. *Science Bulletin*. 998-1010. 2019
- [7] Zhan, Y. F., Yao, H. X., Wang, P., Zhou, B., Zhang, Z. Q., Guo, Y. E., An, N. Y., Ma, J. H., Zhang, X\*, [Liu, Y\\*](#) Network-Based Statistic Show Aberrant Functional Connectivity in Alzheimer's Disease. *IEEE Journal of Selected Topics in Signal Processing*, 10:1182-1188, 2016.
- [8] [Liu Y\\*](#), Yu C<sup>#</sup>, Zhang X<sup>#</sup>, Liu J., Duan Y., Alexander-Bloch A.F., Liu B., Jiang T\*, Bullmore E., Impaired long distance functional connectivity and weighted network architecture in Alzheimer's disease. *Cereb Cortex* 24, 1422-1435. 2014
- [9] [Liu Y](#), Liang M, Zhou Y, He Y, Hao Y, Song M, Yu C, Liu H, Liu Z, Jiang T\*. Disrupted small-world networks in schizophrenia. *Brain*. 2008;131(Pt 4):945-61.
- [10] [Liu Y](#), Yu C, Liang M, Li J, Tian L, Zhou Y, Qin W, Li K, Jiang T\*. Whole brain functional connectivity in the early blind. *Brain*. 2007. 130(Pt 8):2085-96.

## **Selected Honours and Awards**

- Wu Wen Jun AI Science & Technology Award (the first level, R02)
- Member of Center for Excellence in Brain Science and Intelligence Technology CAS (2016--)
- Member of Beijing Nova Program (2015)
- Member of the Youth Innovation Promotion Association, CAS (2014)
- Lu Jiayi Young Talent Award, the Chinese Academy of Sciences (50/year, <1%) (2013)
- Visiting Scholar of Cambridge University (2011)
- SCOPUS Young Researcher New Star Scientist Award in Life Science, Elsevier (2010)
- National Excellent Doctoral Dissertation Award Nomination (2010)
- Third level of Beijing Municipal Science and Technology Award (3/5) (2009)
- Outstanding Doctoral Dissertation, Chinese Academy of Sciences (50/year, <1%) (2009)
- President Scholarship, Chinese Academy of Sciences (200/year, ~1%)(2008)
- Travel Award for the 14th Human Brain Mapping Conference (2008)
- Best Graduate Award, the Chinese Academy of Sciences (2008)
- Travel Award of OHBM (~5%) (2008)
- Outstanding Student in Social Practice, Shandong Province (<0.1%) (1999)

## **Professional Service**

### Board Member for

- Journal of Alzheimer Disease, Senior Editor, 2020.1—
- Journal of Alzheimer Disease, Associate Editor, 2015.12—2019.12
- PLoS One, Academic Editor, 2012.5--
- Neuroimmunology and Neuroinflammation, Editor, 2014.5—2016.12
- Brain Connectivity, Guest Editor, 2013.6-2014.6
- Neural Plasticity, Guest Editor, 2014.12---2015.12

### Organizing committee member for

- The Human Brainnetome Atlas and its Applications (BNA) in MICCAI-2019
- International Symposium on Computational Medicine (Co-Chair, 2012)
- International Conference on Medical Image Computing and Computer Assisted Intervention (Organizer, MICCAI, 2010)
- Multi-modal Imaging of Brain Connectivity (co-organizer, MIBC 2010)
- International Symposium on Computational Medicine (2008, 2009,2011)

### Reviewer for

- Brain, Molecular Psychiatry , Biological Psychiatry, Neuroimage, Schizophrenia Research, Human Brain Mapping, Cerebral Cortex, IEEE Transactions on Medical Image, Journal of Alzheimer Disease, PLoS One. Neuroscience Bulletin, Brain Connectivity, Current Alzheimer Research, Computational and Mathematical Methods in Medicine, Neuroscience
- International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI: 2009, 2010,2015, 2019), International Workshop on Medical Imaging and Augmented Reality (MIAR, 2008), Annual Conference of Organization of Human Brain Mapping (2008-- present)