CURRICULUM VITAE
(Tianzi Jiang, 09/2019)

1. PERSONAL DATA

Current Positions:

Professor and *Director*, Beijing Key Laboratory of Brainnetome, Institute of Automation, Chinese Academy of Sciences, Beijing, China
Professor and *Director*, Brainnetome Center, Institute of Automation, Chinese Academy of Sciences, Beijing, China
Professor, Neuroimaging and Brainnetome, Queensland Brain Institute, University of Queensland, Brisbane, Australia

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Date of Birth: April 17, 1962
Place of Birth: Hunan Province, China
Citizenship: Chinese
Gender: Male
Languages: Chinese and English

2. EDUCATION

PhD in Computational Mathematics (1994): School of Mathematical Sciences, Zhejiang University, China.
MSc in Approximation Theory (1992): School of Mathematical Sciences, Zhejiang University, China.
BSc in Computational Mathematics (1984): School of Mathematics and Statistics, Lanzhou University, China.

3. TEACHING EXPERIENCES

09/2015-Present: *Professor*, University of the Chinese Academy of Sciences, China.
11/1999-Present: *Professor*, Institute of Automation, the Chinese Academy of Sciences, China.
09/2009-Present: *Chang Jiang Professor*, University of Electronic Science and Technology of China, China
08/2002- 05/2003: *Visiting Professor*, Department of Computer Science, University of Houston.
07/1984-09/1989: *Assistant Lecturer*, Suzhou University, China.

4. RESEARCH EXPERIENCES

01/2015-Present: *Professor* and *Director*, Beijing Key Laboratory of Brainnetome, Institute of Automation, the Chinese Academy of Sciences, China.
12/2013-Present: *Professor* and *Director*, Brainnetome Center, Institute of Automation, the Chinese Academy of Sciences, China.
02/2011-Present: *Professor*, Queensland Brain Institute, University of Queensland, Australia
04/2006-06/2013: *Professor* and *Director*, Sino-European Laboratory for Computer Science, Automation, and Applied Mathematics, Institute of Automation (LIAMA), the Chinese Academy of Sciences, China.
01/2003-08/2006: *Professor* and *Deputy Director*, National Laboratory of Pattern Recognition, Institute of Automation, the Chinese Academy of Sciences, China.
11/1999-01/2003: *Professor*, National Laboratory of Pattern Recognition, Institute of Automation, the Chinese Academy of Sciences, China.
04/2000-04/2001: *Research Fellow*, School of Computer Science at the Queen's University of Belfast, UK.
06/1999-03/2000: *Visiting Scientist*, Max Planck Institute for Human Cognitive and Brain Sciences, Image Processing Group, Leipzig, Germany.
06/1997-06/1999: UNSW Vice-Chancellor's *Postdoctoral Research Fellow*, School of Mathematics, the University of New South Wales, Sydney, Australia.
05/1996-10/1999: *Associate Professor*, National Laboratory of Pattern Recognition, Institute of Automation, the Chinese Academy of Sciences.
07/1994-05/1996: *Postdoctoral Research Fellow*, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China.

5. AWARDS AND HONOURS

- ***Member***, Academia Europaea (The Academy of Europe, 2019)
- ***Fellow***, American Institute for Medical and Biological Engineering (2019)
- ***Science and Technology Award,*** China Society of Image and Graphics (2018)
- ***Chinese Medical Science and Technology Award,*** Chinese Medical Association (2014)
- ***Science and Technology Progress Award,*** the Ministry of Education of China (2012)
- ***Outstanding Graduate Supervisor***, the Chinese Academy of Sciences (2009)
- ***Beijing Science and Technology Award***, Beijing Municipal Government (2009)
- ***Chang Jiang Scholars***, the Ministry of Education of China (2008)
- ***Outstanding Graduate Supervisor***, the Chinese Academy of Sciences (2008)
- ***Chinese Medical Science and Technology Award,*** Chinese Medical Association (2007)
- ***Natural Science Award of China*** (Highest Award in Science for Chinese Scientists) (2004)
- ***Science and Technology Progress Award of China*** (Highest Award in Science and Technology Progress for Chinese Scientists) (2004)
- ***Outstanding Young Scholars of China***, Natural Science Foundation of China (Highest Career Accomplishment Award for Chinese Scientist under 45 years old) (2004)
- ***Hundred Talent Program***, the Chinese Academy of Sciences (2001)
- ***Max-Planck Research Fellowships*** (1999)
- ***UNSW Vice-Chancellor's Postdoctoral Research Fellow*** (1997-1999) (The success rate in 1997 round was less than 4%, i.e., 6 out of over 150)
- ***Outstanding Investigator Award***, Institute of Automation, the Chinese Academy of Sciences (1997)
- ***Natural Science Award***, the Chinese Academy of Sciences (1996)

6. ACADEMIC SERVICES

6.1. Editorships

- 2014-Present: **Associate Editor**, *IEEE Transactions on Cognitive and Developmental Systems*
- 2015- Present: **Section Editor**, *BMC Neuroscience*
- 2015- Present: **Associate Editor**, *Frontiers in Neuroinformatics*
- 2012- Present: **Associate Editor**, *Neuroscience Bulletin*
- 2010-Present: **Academic Editor**, *PLoS One*
- 2004-2015: **Associate Editor**, *IEEE Transactions on Medical Imaging*.
- 2008-2014: **Associate Editor**, *IEEE Transactions on Autonomous Mental Development*.
- 2006-2011: **Series Editor**, Book Series on *Computational Imaging and Vision*, Springer Verlag
- 2010-14: **Deputy Editor in Chief**, *Chinese Journal of Medical Imaging and Technology*
- 2007: **Guest Editor**, Special issue on Computational Diffusion MRI, *IEEE Transactions on Medical Imaging*.
- 2006-2009: **Member of Editorial Board**, *NeuroImage*, Elsevier
- 2006-present: **Member of Editorial Board**, *Cognitive Neurodynamics*, Springer Verlag
- 2006-2012: **Member of Editorial Board**, *Genomics, Proteomics & Bioinformatics*, Elsevier
- 2000-2010: **Member of Editorial Board**, *International Journal of Computer Mathematics*, Taylor & Francis
- 2002-2010: **Member of Editorial Board**, *Chinese Journal of Medical Imaging and Technology*

6.2. Chairs and Committee Members for International Conferences

- **Founder and** *Co-Chairs, International Symposium on Brainnetome Meets Genome* (SBMG 2012 in Brisbane, SBMG 2013 in Beijing, and SBMG 2016 in Haikou)
- **Chair**, 11th Brain Connectivity Workshop (BCW'2012), June 6-8, 2012, Chengdu, China
- **General Chair,** *the Thirteenth International Conference on Medical Image Computing and Computer Assisted Intervention* (MICCAI'10), September 20-24, 2010, Beijing, China.
- **Co-Chair** (with Alan Evans), *MICCAI Workshop on Multi-modal Imaging of Brain Connectivity,* September 24, 2010, Beijing, China
- **General Co-Chair**, *IEEE Workshop on Communication among Neuroscience, Cognition and Information Technology: A Focus on Brain Imaging and Neuroinformatic,* September 28-29, 2010, Chengdu, China.
- **Executive General Chair** of *International Workshop on Medical Imaging and Augmented Reality* (MIAR'04), August 19-20, 2004, Beijing, China.
- **Program Co-chair**, *International Workshop on Medical Imaging and Augmented Reality* (MIAR'06), August 17-18, 2006, Shanghai, China.
- **Local Chair**, *Computer Vision for Biomedical Applications***:** *Current Techniques and Future Trends,* October 21, 2005, Beijing, China.
- **Track Chair**, *the 24th International Conference on Pattern Recognition* (ICPR'18), August 20-24, 2018, Beijing, China.
- **Track Co-Chair**, *the 20th International Conference on Pattern Recognition* (ICPR'10), August 23-26, 2010, Istanbul, Turkey.
- **Area Chair**, *the Tenth International Conference on Medical Image Computing and Computer Assisted Intervention* (MICCAI'08), September 6-10, 2008, New York, USA
- **Area Chair**, *the 19th IEEE International Symposium on Computer-Based Medical Systems*, June 22-23, 2006, Salt Lake City, Utah, USA.
- **Program Committee Members:** Working for 100+ International Conferences, Symposia and Workshops.

6.3. Reviewer for Journals (100+ Journals)

Nature Methods, Nature Protocol, PNAS, Journal of Neuroscience, Brain, Cerebral Cortex, PLoS Computational Biology, JAMA Psychiatry, American Journal of Psychiatry, Biological Psychiatry, NeuroImage, Human Brain Mapping, IEEE Transactions on Medical Imaging, IEEE Transactions on

Biomedical Engineering, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Image Processing and so on.

7. PROFESSIONAL MEMBERSHIPS

- **President,** the Branch of Consciousness and its Disorders of Chinese Society for Neuroscience, 2018-Present.
- **Member of Board of Directors**, Chinese Society for Neuroscience, 2017-Present.
- **President,** the Branch of Neural Circuits and their Information Processing of Chinese Society for Cognitive Science, 2016-Present.
- **Chair,** *Chinese Chapter of the Organization of Human Brain Mapping*, 2014-Present.
- **Member of Board of Directors**, Chinese Society for Cognitive Science, 2013-Present.
- **Standing Member of Board of Directors**, Chinese Society for Anatomical Sciences, 2014- Present.
- **President,** Brainnetome Branch of Chinese Society for Anatomical Sciences, 2013-Present.
- **Scientific Committee Chair,** Tianjing Key Laboratory of Brain Functional Imaging, 2014-Present.
- **Scientific Committee Deputy Chair,** Hunan Key Laboratory of Diagnosis and Therapy of Psychiatry, 2013-Present.
- **Scientific Committee Member**, Institute of Automation, the Chinese Academy of Sciences, 2010-Present.
- **Member of Board of Directors**, *the Medical Image Computing and Computer Assisted Intervention Society* (the MICCAI Society), 2008-2012.
- **Program Committee Member**, *the Organization for Human Brain Mapping*, 2007-2009.
- **Member**, *Bio Imaging and Signal Processing Technical Committee*, IEEE Signal Processing Society, 2006-2010.
- **Senior Member**, IEEE
- **Senior Member**, IEEE Engineering in Medicine and Biology Society
- **Senior Member**, Signal Processing
- **Member,** Organization of Human Brain Mapping
- **Member,** International Society for Magnetic Resonance in Medicine

8. PUBLICATIONS (Since 2000)

8.1. Papers in Peer-Reviewed Journals (*Corresponding Author)

2019

[1]. Jiang R, Calhoun VD, Fan L, Zuo N, Jung R, Qi S, Lin D, Li J, Zhuo C, Song M, Fu Z, **Jiang T***, Sui J*. Gender Differences in Connectome-based Predictions of Individualized Intelligence Quotient and Sub-domain Scores. ***Cereb Corte***x. 2019 Jul 29. pii: bhz134. doi: 10.1093/cercor/bhz134.

[2]. Wang J, Becker B, Wang L, Li H, Zhao X, **Jiang T***, Corresponding anatomical and coactivation architecture of the human precuneus showing similar connectivity patterns with macaques. ***Neuroimage***. 2019 Jul 2. pii: S1053-8119(19)30563-4. doi: 10.1016/j.neuroimage.2019.07.001.

[3]. Zuo N, Salami A, Yang Y, Yang Z, Sui J, **Jiang T***, Activation-based association profiles differentiate network roles across cognitive loads. ***Hum Brain Mapp.*** 2019 Jun 15; 40(9):2800-2812. doi: 10.1002/hbm.24561.

[4]. Wu D, Li X, **Jiang T***, Reconstruction of behavior-relevant individual brain activity: an individualized fMRI study. ***Sci China Life Sci.*** 2019 Jul 8. doi: 10.1007/s11427-019-9556-4.

[5]. Li X, Wu D, Cui Y, Liu B, Walter H, Schumann G, Li C, **Jiang T***, Reliable heritability estimation using sparse regularization in ultrahigh dimensional genome-wide association studies. ***BMC Bioinformatics***. 2019 Apr 30;20(1):219. doi: 10.1186/s12859-019-2792-7.

[6]. Yan W, Calhoun V, Song M, Cui Y, Yan H, Liu S, Fan L, Zuo N, Yang Z, Xu K, Yan J, Lv L, Chen J, Chen Y, Guo H, Li P, Lu L, Wan P, Wang H, Wang H, Yang Y, Zhang H, Zhang D, **Jiang T***, Sui J. Discriminating schizophrenia using recurrent neural network applied on time courses of multi-site

FMRI data. ***EBioMedicine***. 2019. pii: S2352-3964(19)30545-6. doi: 10.1016/j.ebiom.2019.08.023.

[7]. Xia X, Fan L, Cheng C, Yao R, Deng H, Zhao D, Li H, **Jiang T***, Interspecies Differences in the Connectivity of Ventral Striatal Components Between Humans and Macaques. ***Front Neurosci.*** 2019 Jun 14;13:623. doi: 10.3389/fnins.2019.00623.

[8]. Wu D, **Jiang T***, Schizophrenia-related abnormalities in the triple network: a meta-analysis of working memory studies. ***Brain Imaging Behav.*** 2019 Mar 1. doi: 10.1007/s11682-019-00071-1.

[9]. Yang Y, Liu S, Jiang X, Yu H, Ding S, Lu Y, Li W, Zhang H, Liu B, Cui Y, Fan L, **Jiang T***, Lv L*. Common and Specific Functional Activity Features in Schizophrenia, Major Depressive Disorder, and Bipolar Disorder. ***Front Psychiatry***. 2019 Feb 19;10:52. doi: 10.3389/fpsyt.2019.00052.

[10].Hu G, Huang X, **Jiang T**, Yu S, Multi-Scale Expressions of One Optimal State Regulated by Dopamine in the Prefrontal Cortex, ***Front Physiol***. 2019 Feb 28;10:113. doi: 10.3389/fphys.2019.00113.

[11].Luo YL, Gao B, Deng YY, Zhu XM, **Jiang T**, Zhao XD, Yang ZY, Automated brain extraction and immersive exploration of its layers in virtual reality for the rhesus macaque MRI data sets, ***Computer Animation and Virtual Worlds***, 2019, 30: e1841, doi.org/10.1002/cav.1841.

[12]. Jiang R, Calhoun VD, Cui Y, Qi S, Zhuo C, Li J, Jung R, Yang J, Du Y, **Jiang T**, Sui J, Multimodal data revealed different neurobiological correlates of intelligence between males and females. ***Brain Imaging Behav***. 2019 Jul 5. doi: 10.1007/s11682-019-00146-z.

[13].Yan J, Cui Y, Li Q, Tian L, Liu B, **Jiang T**, Zhang D, Yan H. Cortical thinning and flattening in schizophrenia and their unaffected parents. ***Neuropsychiatr Dis Treat.*** 2019 Apr 12;15:935-946. doi: 10.2147/NDT.S195134.

[14].Liu S, Li A, Liu Y, Li J, Wang M, Sun Y, Qin W, Yu C, **Jiang T**, Liu B. MIR137 polygenic risk is associated with schizophrenia and affects functional connectivity of the dorsolateral prefrontal cortex. ***Psychol Med***. 2019 Jun 26:1-9. doi: 10.1017/S0033291719001442.

[15].Liu S, Li A, Liu Y, Yan H, Wang M, Sun Y, Fan L, Song M, Xu K, Chen J, Chen Y, Wang H, Guo H, Wan P, Lv L, Yang Y, Li P, Lu L, Yan J, Wang H, Zhang H, Wu H, Ning Y, Zhang D, **Jiang T**, Liu B. Polygenic effects of schizophrenia on hippocampal grey matter volume and hippocampus-medial prefrontal cortex functional connectivity. ***Br J Psychiatry***. 2019 Jun 6:1-8. doi: 10.1192/bjp.2019.127.

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[18].Zeng G, Huang X, **Jiang T**, Yu S. Short-term synaptic plasticity expands the operational range of long-term synaptic changes in neural networks. ***Neural Netw.*** 2019 Jun 18;118:140-147. doi: 10.1016/j.neunet.2019.06.002.

[19].Zhang DF, Fan Y, Xu M, Wang G, Wang D, Li J, Kong LL, Zhou H, Luo R, Bi R, Wu Y, Li GD; ADNI, Li M, Luo XJ, Jiang HY, Tan L, Zhong C, Fang Y, Zhang C, Sheng N, **Jiang T**, Yao YG, Complement C7 is a novel risk gene for Alzheimer's disease in Han Chinese. ***Natl Sci Rev.*** 2019 Mar;6(2):257-274. doi: 10.1093/nsr/nwy127.

[20].Yang W, Liu Y, Tu Z, Xiao C, Yan S, Ma X, Guo X, Chen X, Yin P, Yang Z, Yang S, **Jiang T**, Li S, Qin C, Li XJ. CRISPR/Cas9-mediated PINK1 deletion leads to neurodegeneration in rhesus monkeys. ***Cell Res***. 2019 Feb 15. doi: 10.1038/s41422-019-0142-y.

2018

[21].Song M, Yang Y, He J, Yang Z, Yu S, Xie Q, Xia X, Dang Y, Zhang Q, Wu X, Cui Y, Hou B, Yu R, Xu R, **Jiang T.***, Prognostication of chronic disorders of consciousness using brain functional networks and clinical characteristics. ***Elife***. 2018 Aug 14;7. pii: e36173. doi: 10.7554/eLife.36173.

[22].Cheng C, Fan L, Xia X, Eickhoff SB, Li H, Li H, Chen J, **Jiang T.***, Rostro-caudal organization of the human posterior superior temporal sulcus revealed by connectivity profiles. ***Hum Brain Mapp.*** 2018, 39(12):5112-5125.

[23].Xie S, Liu B, Wang J, Zhou Y, Cui Y, Song M, Chen Y, Li P, Lu L, Lv L, Wang H, Yan H, Yan J, Zhang H, Zhang D, **Jiang T.***, Hyperconnectivity in perisylvian language pathways in schizophrenia with auditory verbal hallucinations: A multi-site diffusion MRI study. ***Schizophr Res***. 2018 Dec 23. pii: S0920-9964(18)30720-5. doi: 10.1016/j.schres.2018.12.024.

[24].Zuo N, Yang Z, Liu Y, Li J, **Jiang T.***, Core networks and their reconfiguration patterns across cognitive loads. ***Hum Brain Mapp.*** 2018 Apr 20. doi: 10.1002/hbm.24193.

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[27]. Zhang YY, Xu L, Liang ZY, Wang K, Hou B, Zhou Y, Li S, **Jiang T.***, Separate Neural Networks for Gains and Losses in Intertemporal Choice. ***Neurosci Bull.*** 2018, 34(5):725-735.

[28]. Xu K, Liu Y, Zhan Y, Ren J, **Jiang T.***, BRANT: A Versatile and Extendable Resting-State fMRI Toolkit. ***Front Neuroinform.*** 2018 Sep 3;12:52. doi: 10.3389/fninf.2018.00052.

[29]. Wu T, Fan J, Chen Y, Xiang J, Zhu D, Zhang J, Shi J, **Jiang T.***, Interictal Abnormalities of Neuromagnetic Gamma Oscillations in Migraine Following Negative Emotional Stimulation. ***Front Behav Neurosci.*** 2018 Aug 17;12:169. doi: 10.3389/fnbeh.2018.00169.

[30]. Li J, Zhang X, Li A, Liu S, Qin W, Yu C, Liu Y, Liu B, **Jiang T.***, Polygenic risk for Alzheimer's disease influences precuneal volume in two independent general populations. ***Neurobiol Aging***. 2018, 64:116-122.

[31]. Jiang R, Calhoun VD, Zuo N, Lin D, Li J, Fan L, Qi S, Sun H, Fu Z, Song M, **Jiang T***, Sui J.*, Connectome-based individualized prediction of temperament trait scores. ***Neuroimage.*** 2018, 183:366-374.

[32]. Wang C, Liu B, Zhang X, Cui Y, Yu C, **Jiang T.***, Multilocus genetic profile in dopaminergic pathway modulates the striatum and working memory. ***Sci Rep.*** 2018, 8(1):5372.

[33]. Wang J, Feng X, Wu J, Xie S, Li L, Xu L, Zhang Y, Ren X, Hu Z, Lv L, Hu X, **Jiang T.***, Alterations of Gray Matter Volume and White Matter Integrity in Maternal Deprivation Monkeys. ***Neuroscience***. 2018, 384:14-20.

[34]. Yang Y, Yu H, Li W, Liu B, Zhang H, Ding S, Lu Y, **Jiang T***, Lv L.* Association between cerebral dopamine neurotrophic factor (CDNF) 2 polymorphisms and schizophrenia susceptibility and symptoms in the Han Chinese population. ***Behav Brain Funct.*** 2018, 14(1):1.

[35]. Fang X, Wang Y, Cheng L, Zhang Y, Zhou Y, Wu S, Huang H, Zou J, Chen C, Chen J, Wang H, **Jiang T.***, Prefrontal dysconnectivity links to working memory deficit in first-episode schizophrenia. ***Brain Imaging Behav***. 2018, 12(2):335-344.

[36]. **Jiang T.***, Recent Progress in Basic and Clinical Research on Disorders of Consciousness. ***Neurosci Bull***. 2018, 34(4):589-591. (Editorial)

[37]. Wang J, Zuo Z, Xie S, Miao Y, Ma Y, Zhao X, **Jiang T.***, Parcellation of Macaque Cortex with Anatomical Connectivity Profiles. ***Brain Topogr***. 2018, 31(2):161-173.

[38]. Si J, Dang Y, Zhang Y, Li Y, Zhang W, Yang Y, Cui Y, Lou X, He J, **Jiang T.***, Spinal Cord Stimulation Frequency Influences the Hemodynamic Response in Patients with Disorders of Consciousness. ***Neurosci Bull***. 2018, 34(4):659–667.

[39]. Song M, Zhang Y, Cui Y, Yang Y, **Jiang T.***, Brain Network Studies in Chronic Disorders of

Consciousness: Advances and Perspectives. ***Neurosci Bull***. 2018, 34(4):592–604.

[40]. Xu Q, Fu J, Liu F, Qin W, Liu B, **Jiang T.**, Yu C., Left Parietal Functional Connectivity Mediates the Association Between COMT rs4633 and Verbal Intelligence in Healthy Adults. ***Front Neurosci.*** 2018, 12:233.

[41]. Huang H, Shu C, Chen J, Zou J, Chen C, Wu S, Xiao L, Liu Z, Wang H, Zhou Y, Wang G, **Jiang T.** Altered corticostriatal pathway in first-episode paranoid schizophrenia: Resting-state functional and causal connectivity analyses. ***Psychiatry Res Neuroimaging***. 2018, 272:38-45.

[42]. Qi S, Yang X, Zhao L, Calhoun VD, Perrone-Bizzozero N, Liu S, Jiang R, **Jiang T**, Sui J, Ma X. MicroRNA132 associated multimodal neuroimaging patterns in unmedicated major depressive disorder. ***Brain***. 2018 Feb 2. doi: 10.1093/brain/awx366.

[43]. Liu S, Wang H, Song M, Lv L, Cui Y, Liu Y, Fan L, Zuo N, Xu K, Du Y, Yu Q, Luo N, Qi S, Yang J, Xie S, Li J, Chen J, Chen Y, Wang H, Guo H, Wan P, Yang Y, Li P, Lu L, Yan H, Yan J, Wang H, Zhang H, Zhang D, Calhoun VD, Jiang T, Sui J. Linked 4-Way Multimodal Brain Differences in Schizophrenia in a Large Chinese Han Population. ***Schizophr Bull***. 2018, doi: 10.1093/schbul/sby045.

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[45]. Wu T, Chen D, Chen QQ, Zhang R, Zhang WY, Li YJ, Zhang L, Liu HY, Wan SR, **Jiang T**, and Zhang JP., Automatic Lateralization of Temporal Lobe Epilepsy Based on MEG Network Features Using Support Vector Machines, ***Complexity***, Volume 2018, Article ID 4325096.

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[47]. Qi S, Calhoun VD, van Erp TGM, Bustillo J, Damaraju E, Turner JA, Du Y, Yang J, Chen J, Yu Q, Mathalon DH, Ford JM, Voyvodic J, Mueller BA, Belger A, McEwen S, Potkin SG, Preda A, **Jiang T**, Sui J. Multimodal Fusion With Reference: Searching for Joint Neuromarkers of Working Memory Deficits in Schizophrenia. ***IEEE Trans Med Imaging***. 2018, 37(1):93-105.

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[49]. Sui J, Qi S, van Erp TGM, Bustillo J, Jiang R, Lin D, Turner JA, Damaraju E, Mayer AR, Cui Y, Fu Z, Du Y, Chen J, Potkin SG, Preda A, Mathalon DH, Ford JM, Voyvodic J, Mueller BA, Belger A, McEwen SC, O'Leary DS, McMahon A, **Jiang T**, Calhoun VD. Multimodal neuromarkers in schizophrenia via cognition-guided MRI fusion. ***Nat Commun***. 2018, 9(1):3028.

2017

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[55]. Si, J., Zhang, X., Zhang, Y., **Jiang, T.***, Hemispheric differences in electrical and hemodynamic responses during hemifield visual stimulation with graded contrasts. ***Biomed Opt Express***.2017.8:2018-2035.

[56]. Zhang Y, Yang Y, Si J, Xia X, He J, **Jiang T.*,** Influence of inter-stimulus interval of spinal cord stimulation in patients with disorders of consciousness: A preliminary functional near-infrared spectroscopy study. ***Neuroimage Clin.*** 2017 Sep 27;17:1-9. doi: 10.1016/j.nicl.2017.09.017.

[57]. Zuo N, Yang Z, Liu Y, Li J, **Jiang T.***, Both activated and less-activated regions identified by functional MRI reconfigure to support task executions. ***Brain Behav.*** 2017, 8(1):e00893.

[58]. Fan, L., **Jiang,T.***, Mapping Underlying Maturational Changes in Human Brain. ***Neuroscience Bulletin***. 2017. 33(4)478-480.

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[23]. **Tianzi Jiang** and Frithjof Kruggel (2000), 3D MR Image Restoration by Combining Genetic Algorithm with Adaptive Precoditioning, Proc. 15th International Conf. on Pattern Recognition, vol. 3, pp. 302-305, Barcelona, Spain, 2000.

[24]. Qing Lu and **Tianzi Jiang** (2000), A New Bayesian Approach to Image Denoising with a Combination of MRFs and Pixon Map, *Proc. 15th International Conf. on Pattern Recognition*, vol. 3, pp.734-737, Barcelona, Spain, 2000.

8.4. Selected Invited Presentations

[1]. "The Human Brainnetome Atlas and its Applications in Understanding of Brain Functions and Disorders *(OHBM2019)*, 2019, Rome, Italy. (Keynote Speech)

[2]. "Brainnetome Atlas Based Neuroimage Big Data Analysis and Platform of Mental Disorders", *International Life Science Summit - Neuroscience and Mental Health*, 2018, Beijing, China.

[3]. "The Human Brainnetome Atlas and its Applications", *the 25th International Symposia on Morphological Sciences (ISMS2017)*, 2017, Xi'an, China. (Plenary Speech)

[4]. "Brainnetome Atlas of Language", *International Workshop on Brain-inspired Computing (BRAINCOMP 2017),* 2017, Cetraro, Italy. (Keynote Speech)

[5]. "The Human Brainnetome Atlas and its Applications", *2017 Science International Innovation-Oriented Forum on Disruptive Technology in Biomedical Science,* 2017, China.

[6]. "The Human Brainnetome Atlas and its Applications", *ISBI Pediatric Neuroimaging*, 2017, Australia.

[7]. "Mathematics for the Brainnetome Atlas", *Mathematics and Statistics in Medical Imaging Applications and Big Data Integration Workshop*", 2016, China.

[8]. "Neuroimaging Techniques for the Brainnetome Atlas", *Northeastern Asian Conference on Molecular Imaging–based Precision Medicine,* 2016, China.

[9]. "Brainnetome Atlas Based on Multimodal Neuroimaging and its Applications", *2016 World Life Science Conference*, 2016, China.

[10]."The Human Brainnetome Atlas: A New Brain Atlas Based on Connectional Architecture", *Brain Networks 2016*, South Korea.

[11]."Human Brainnetome Atlas and its Potential Applications in Brain-inspired Computing", *IEEE Signal and Data Science Forum*, 2016. (Keynote Speech)

[12]."Brainnetome Atlas: A New Brain Atlas Based on Connectivity Profiles", *International Conference of Human Brain Development*, 2015. (Keynote Speech)

[13]."Brainnetome Atlas: A New Brain Atlas Based on Connectivity Profiles", *International Workshop on Brain-Inspired Computing (BRAINCOMP 2015)*", 2015. (Keynote Speech)

[14]."Brainnetome Meets Genome: Studies with Multimodal Magnetic Resonance Imaging", *International Symposium on Computational Psychophysiology*, 2015. (Keynote Speech)

[15]. "How Do Risky Genes of Brain Diseases Affect the Brainnetome", *Cortical Connections 2015*, 2015, Australia.

[16]."Brainnetome: A New Avenue to Understand the Brain and its Disorders", *18th Congress of International Federation of Associations of Anatomists* (IFAA 2014), 2014.

[17]."Brainnetome Studies of Mental Disorders with Neuroimaging", *International Forum on Brain Disorders*, 2014, China.

[18]. "Brainnetome-wide Association Studies in Schizophrenia", *OHBM Morning Workshop on the Use of Brain Network Measures to Characterize Major Mental Disorders*, 2013, USA.

[19]."Brainnetome Meets Genome: The Future of Mental Disease", *United States-China-Australia Workshop on NBIC2 (Nanotechnology, Biotechnology, Information Technology and Cognitive Science)*, 2012, China. (Plenary Speech)

[20]. "Brainnetome: A new -ome to understand the brain and its disorders", *International Conference on Prefrontal Cortex*, 2012.

[21]."Brainnetome Based on Multimodal Magnetic Resonance Imaging", *Janelia Conference on Turning Images to Knowledge: Large-Scale 3D Image Annotation, Management, and Visualization*, 2012, USA

[22]."Brainnetome Based on Multimodal Magnetic Resonance Imaging", *International Symposium on Brain Image Processing*, 2011, South Korea.

[23]."Brainnetome: an Emerging Frontier of Human Brain Mapping", *Netherlands Science & Technology Officers Network Seminar on Brain & Cognition: BRAINS MEAN BUSINESS*, 2011, the Netherlands.

[24]."Brainnetome Based on Multimodal Magnetic Resonance Imaging", *International Workshop "Mathematical Methods in Medical Imaging*, 2011, South Korea.

[25]. "Brainnetome Meets Genome: A New Avenue to Study Alzheimer's Disease", *FRQS-NSFC Joint Work Shop on Aging 2011*, 2011, Canada.

[26]. "Relationships between Intelligence and Brain Networks", *The International Forum on Medical Imaging in Asia (IFMIA)*, 2010, Japan.

[27]. "Studies of Brain Disorders with Resting-state fMRI", *German-Chinese Workshop on Functional Brain Imaging*, 2010, Germany.

[28]. "Altered Brain Networks in Neuropsychiatric Disorders", *International Conference on Cognitive Science*, 2010.

[29]. "How Brain Networks Correlate with Intelligence", *New Horizons in Human Brain Mapping: A Focus on Brain Networks and Connectivity*, 2010, USA.

[30]. "Brain Networks: From Anatomy to Dynamics", *International Symposium on Neurobehavioral Science*, 2009.

[31]. "Studies of Brain Networks Based on Neuroimages", *LIAMA-QBI Symposium on Neuroimaging*, 2009, Australia.

[32]. "Do Brain Networks Correlate with Intelligence", *International Conference on Brain Informatics*, 2009.

[33]. "Spontaneous Low-Frequency Fluctuation Observed with Functional Magnetic Resonance Imaging as a Potential Biomarker in Neuropsychiatric Disorders", *The 2nd International Conference on Cognitive Neurodynamics*, 2009.

[34]. "Disrupted Small-world Networks in Cognitive Disorders: Evidence from Rest-state fMRI", *International Conference on Statistical Paradigms - Recent Advances and Reconciliations*, 2008, India.

[35]. "Disrupted Small-world Networks in Brain Disorders", *International Symposium on Brain Functional Genomics*, 2008.

8.5. Patents

[1]. NEUROVASCULAR COUPLING ANALYTICAL METHOD BASED ON ELECTROENCEPHALOGRAM AND FUNCTIONAL NEAR INFRARED SPECTROSCOPY TECHNOLOGY, PCT/CN2016/104455.

[2]. WIRELESS WEARABLE BRAIN BLOOD OXYGEN MONITORING SYSTEM, PCT/CN2015/073585.

[3]. METHOD FOR PHOTOELECTRICALLY SYNCHRONIZING DATA STORAGE OF BRAIN ACTIVITY RECORDING, PCT/CN2014/086904.

[4]. METHOD AND SYSTEM FOR DETECTING CEREBRATION, WO/2016/019526.

Besides the above PCT patents, 32 parents were approved in China and filed in Chinese language.

9. GRANTS (Since 2005)

[1]. ***New Imaging Techniques for Visualizing Whole Brain-wide Neural Circuits at Multi-scale***, the Key Project of National Science Foundation of China, 1.0 million (RMB), 2018-2019(PI)

[2]. ***Prediction of Cognitive Capability Based on Brainnetome Atlas and Machine Learning,*** the Key Frontier Project of National Laboratory of Pattern Recognition, 3.0 millions (RMB), 2018-2020 (PI)

[3]. ***Multi-modal Mapping of the Human Brain Atlas,*** the Key Project of National Science Foundation of China for International Collaboration, 2.8 millions (RMB), 2017-2021 (PI)

[4]. ***Investigation of Multiscale Macaque Brainnetome Atlas and its Transcriptome,*** the Key Frontier Project of the Chinese Academy of Sciences, 3.0 millions (RMB), 2016-2019 (PI)

[5]. ***Advancing ultrahigh-field MRI based neuroimaging,*** Queensland-Chinese Academy of Sciences (Q-CAS) Collaborative Science, 700,000 (RMB) for Tianzi Jiang (PI from CAS), $125,000 for Stuart Crozier (PI from UQ), 2016-2017.

[6]. ***Neural Circuit of Emotion Based on Primates and its Applications to Depression***, Beijing Brain Project, 1.8 millions (RMB), 2016-2019 (PI)

[7]. ***Studies of Brainnetome Atlas and its Biological Basis,*** the Key Project of National Science Foundation of China, 3.0 millions (RMB), 2015-2018 (PI)

[8]. ***Brainnetome Atlas of Depression***, the Strategic Priority Research Programs of the Chinese Academy of Sciences, 10 millions (RMB), 2012-2016 (PI)

[9]. ***Investigations of Brainnetome for Working Memory Impairment in Schizophrenia***, the Key Project of National Science Foundation of China, 3.5 millions (RMB), 2012-2015 (PI)

[10]. ***Development of New Optical-Electrical integrated Equipment for Brain Activity Detection (NEG System),*** National Key Instrumentation Program, the Ministry of Science and Technology of China, 42.12 millions (RMB), 2012-2016.(PI)

[11]. ***Brain Networks and Their Clinical Applications (Brainnetome Project)***, National Key Basic Research Projects of China (973), the Ministry of Science and Technology of China, 26 millions (RMB), 2011-2015.(PI)

[12]. ***Improved Deep Brain Stimulation Method for Parkinson's Diseases,*** the Key Project of International Collaboration of the Chinese Academy of Sciences, 800,000 (RMB) for Tianzi Jiang (PI from CAS), 240,000 Euros for Bart ter Haar Romeny PI from the Netherlands) 2012-2014 (PI)

[13]. ***Neurobiology of Human Intelligence,*** National Key Basic Research Projects of China (973), the

Ministry of Science and Technology of China, 750,000(RMB), 2011-2015. (PI: Mu-Ming Poo)

[14]. ***Brain Disease Oriented Computational Theory and Algorithms for Multimodal Magnetic Resonance Imaging***, the Key Project of National Science Foundation of China, 1.7 millions (RMB), 2008-2011. (PI)

[15]. ***Early Diagnosis Systems Based on Brain Imaging for Mild Cognitive Impairment and Alzheimer's Disease***, the Key Project of the External Cooperation Program of the Chinese Academy of Sciences, 900,000 (RMB), 2008-2011. (PI)

[16]. ***Study of Multimodal Imaging and Computing Biomarkers for Mild Cognitive Impaired and Alzheimer's Diseases***, the Key Project of International Collaboration Program, the Ministry of Science and Technology of China, 2.37 millions (RMB), 2008-2011. (PI)

[17]. ***Computational Theory and Methodologies for Brain Imaging and Their Applications to Brain Diseases***, the National Outstanding Youth Foundations of China, National Science Foundation of China, 1.4 millions (RMB), 2005-2008. (PI)

[18]. ***Study of Human Uncertain Decision-Making with functional Magnetic Resonance Imaging***, National Science Foundation of China, 280,000 (RMB), 2007-2009. (PI)

[19]. ***Computational Theory and Methodology of Diffusion Tensor Imaging***, National Science Foundation of China, 230,000 (RMB), 2006-2008. (PI)