

中国科学院大学

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基本信息



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中科院卓越青年科学家，卢嘉锡青年人才奖获得者，北京市科技新星，国家重点专项课题负责人

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## 研究领域

数据挖掘，医学图像处理，复杂网络分析，精准医学，影像基因组学

## 招生信息

主要招收理工科背景（信号处理，电子通信，计算机，生物医学、自动控制、数理统计等），对与脑科学及临床医学等交叉学科研究有浓厚兴趣的研究生。

注：考生除具备扎实的基础知识与踏实的研究态度外，还要有良好的语言表达与英文写作能力。

招生专业

081104-模式识别与智能系统

081203-计算机应用技术

## 教育背景

2002-09--2007-06 中国科学院自动化研究所 博士

## 工作经历

工作经历

2015-10~现在, 中国科学院自动化研究所, 研究员

2010-10~2015-10, 中国科学院自动化研究所, 副研究员

2007-07~2010-10, 中国科学院自动化研究所, 助理研究员

## 专利与奖励

个人荣誉

- (1) 北京市科技进步三等奖, 三等奖, 省级, 2015
- (2) 卢嘉锡青年人才奖, 部委级, 2015
- (3) 中国科学院卓越青年科学家, 院级, 2014
- (4) 北京市科技新星, 省级, 2010
- (5) 中国科学院院长奖, 院级, 2007
- (6) 宝钢奖学金, 其他, 2006

## 近年代表性论文

1. **Bing Liu**, Xiaolong Zhang, Yue Cui, Wen Qin, Yan Tao, Ji Li, Chunshui Yu, Tianzi Jiang. Polygenic Risk for Schizophrenia Influences Cortical Gyrification in 2 Independent General Populations. *Schizophrenia Bulletin*. 2016, In press. (SCI IF = 8.450)
2. **Bing Liu**, Lingzhong Fan, Yue Cui, Xiaolong Zhang, Bing Hou, Yonghui Li, Wen Qin, Dawei Wang, Chunshui Yu\*, Tianzi Jiang\*. DISC1 Ser704Cys impacts thalamic-prefrontal connectivity. *Brain Structure & Function*. 2015;220(1):91-100. (SCI IF = 5.618)
3. **Bing Liu** (<http://www.pubfacts.com/author/Bing+Liu>), Xiaolong Zhang (<http://www.pubfacts.com/author/Xiaolong+Zhang>), Bing Hou (<http://www.pubfacts.com/author/Bing+Hou>), Jin Li (<http://www.pubfacts.com/author/Jin+Li>), Chengxiang Qiu (<http://www.pubfacts.com/author/Chengxiang+Qiu>), Wen Qin (<http://www.pubfacts.com/author/Wen+Qin>), Chunshui Yu (<http://www.pubfacts.com/author/Chunshui+Yu>)\*, Tianzi Jiang (<http://www.pubfacts.com/author/Tianzi+Jiang>)\*. The impact of MIR137 on dorsolateral prefrontal-hippocampal functional connectivity in healthy subjects. *Neuropsychopharmacology*. 2014;39(9):2153-60. (SCI IF = 7.048)
4. **Bing Liu** (<http://www.pubfacts.com/author/Bing+Liu>), Ming Song (<http://www.pubfacts.com/author/Ming+Song>), Jun Li (<http://www.pubfacts.com/author/Jun+Li>), Yong Liu (<http://www.pubfacts.com/author/Yong+Liu>), Kuncheng Li (<http://www.pubfacts.com/author/Kuncheng+Li>), Chunshui Yu (<http://www.pubfacts.com/author/Chunshui+Yu>)\*, Tianzi Jiang (<http://www.pubfacts.com/author/Tianzi+Jiang>)\*. Prefrontal-related functional connectivities within the default network are modulated by COMT Val158Met in healthy young adults. *The Journal of Neuroscience*. 2010;30(1):64-9. (SCI IF = 6.344)
5. **Bing Liu** (<http://www.pubfacts.com/author/Bing+Liu>), Jun Li (<http://www.pubfacts.com/author/Jun+Li>), Chunshui Yu (<http://www.pubfacts.com/author/Chunshui+Yu>), Yonghui Li (<http://www.pubfacts.com/author/Yonghui+Li>), Yong Liu (<http://www.pubfacts.com/author/Yong+Liu>), Ming Song (<http://www.pubfacts.com/author/Ming+Song>), Ming Fan (<http://www.pubfacts.com/author/Ming+Fan>), Kuncheng Li (<http://www.pubfacts.com/author/Kuncheng+Li>), Tianzi Jiang (<http://www.pubfacts.com/author/Tianzi+Jiang>)\*. Haplotypes of catechol-O-methyltransferase modulate intelligence-related brain white matter integrity. *NeuroImage*. 2010;50(1):243-9. (SCI IF = 6.357)
6. Xiaolong Zhang, Jin-tai Yu, Jin Li, Chao Wang, Lan Tan, **Bing Liu**\*, Tianzi Jiang\*. Bridging Integrator 1 (BIN1) Genotype Effects on Working Memory, Hippocampal Volume and Functional Connectivity in Young Healthy Individuals. *Neuropsychopharmacology*. 2015;40(7):1794-803. (通信作者, SCI IF = 7.048)
7. Xiaolong Zhang, Jin Li, Wen Qin, Chunshui Yu, **Bing Liu**\*, and Tianzi Jiang. The catechol-o-methyltransferase Val158Met polymorphism modulates the intrinsic functional network centrality of the parahippocampal cortex in healthy subjects. *Scientific Reports*. 2015; 5: 10105. (通信作者, SCI IF = 5.578)
8. Geng Chen (<http://www.pubfacts.com/author/Geng+Chen>), Chengxiang Qiu (<http://www.pubfacts.com/author/Chengxiang+Qiu>), Qipeng Zhang (<http://www.pubfacts.com/author/Qipeng+Zhang>), **Bing Liu** (<http://www.pubfacts.com/author/Bing+Liu>)\*, Qinghua Cui (<http://www.pubfacts.com/author/Qinghua+Cui>)\*. Genome-wide analysis of human SNPs at long intergenic noncoding RNAs. *Human Mutation*. 2013;34(2):338-44. (通信作者, SCI IF = 5.340)
9. Yan Tao, **Bing Liu**\*, Xiaolong Zhang, Jin Li, Wen Qin, Chunshui Yu, Tianzi Jiang. The Structural Connectivity Pattern of the Default Mode Network and Its Association with Memory and Anxiety. *Frontiers in Neuroanatomy*. 2015; 9:152. (通信作者, SCI IF = 3.544)
10. Jin Li ([https://www.researchgate.net/researcher/64248152\\_Jin\\_Li](https://www.researchgate.net/researcher/64248152_Jin_Li))<sup>‡</sup>, **Bing Liu**<sup>‡</sup>, Chuansheng Chen ([https://www.researchgate.net/researcher/54051423\\_Chuansheng\\_Chen](https://www.researchgate.net/researcher/54051423_Chuansheng_Chen)), Yue Cui ([https://www.researchgate.net/researcher/2035263743\\_Yue\\_Cui](https://www.researchgate.net/researcher/2035263743_Yue_Cui)), Liqing Shang

([https://www.researchgate.net/researcher/2070190770\\_Liqing\\_Shang](https://www.researchgate.net/researcher/2070190770_Liqing_Shang)), Yun Zhang ([https://www.researchgate.net/researcher/2074360957\\_Yun\\_Zhang](https://www.researchgate.net/researcher/2074360957_Yun_Zhang)), Chao Wang ([https://www.researchgate.net/researcher/14893365\\_Chao\\_Wang](https://www.researchgate.net/researcher/14893365_Chao_Wang)), Xiaolong Zhang ([https://www.researchgate.net/researcher/2035260724\\_Xiaolong\\_Zhang](https://www.researchgate.net/researcher/2035260724_Xiaolong_Zhang)), Qinghua He ([https://www.researchgate.net/researcher/14157888\\_Qinghua\\_He](https://www.researchgate.net/researcher/14157888_Qinghua_He)), Wen Zhang ([https://www.researchgate.net/researcher/2080413927\\_Wen\\_Zhang](https://www.researchgate.net/researcher/2080413927_Wen_Zhang)), Wenwei Bi ([https://www.researchgate.net/researcher/2079329472\\_Wenwei\\_Bi](https://www.researchgate.net/researcher/2079329472_Wenwei_Bi)), Tianzi Jiang ([https://www.researchgate.net/researcher/7142622\\_Tianzi\\_Jiang](https://www.researchgate.net/researcher/7142622_Tianzi_Jiang))\*. RAB2A Polymorphism impacts prefrontal morphology, functional connectivity, and working memory. *Human Brain Mapping*. 2015; 36(11):4372-82. (共同第一作者, **SCI IF = 5.969**)

11. Yue Cui<sup>#</sup>, **Bing Liu**<sup>#</sup>, Yuan Zhou, Lingzhong Fan, Jin Li, Yun Zhang, Huawang Wu, Bing Hou, Chao Wang, Fanfan Zheng, Chengxiang Qiu, Li-Lin Rao, Yuping Ning, Shu Li, Tianzi Jiang\*. Genetic Effects on Fine-Grained Human Cortical Regionalization. *Cerebral Cortex*. 2015; in press. (共同第一作者, **SCI IF = 8.665**)

12. Yonghui Li (<http://paperity.org/search/?q=authors%3A%22Yonghui+Li%22>)<sup>#</sup>, **Bing Liu** (<http://paperity.org/search/?q=authors%3A%22Bing+Liu%22>)<sup>#</sup>, Bing Hou (<http://paperity.org/search/?q=authors%3A%22Bing+Hou%22>)<sup>#</sup>, Wen Qin (<http://paperity.org/search/?q=authors%3A%22Wen+Qin%22>), Dawei Wang (<http://paperity.org/search/?q=authors%3A%22Dawei+Wang%22>), Chunshui Yu (<http://paperity.org/search/?q=authors%3A%22Chunshui+Yu%22>)<sup>\*</sup>, Tianzi Jiang (<http://paperity.org/search/?q=authors%3A%22Tianzi+Jiang%22>)<sup>\*</sup>. Less efficient information transfer in Cys-allele carriers of DISC1: a brain network study based on diffusion MRI. *Cerebral Cortex*. 2013;23(7):1715-23. (共同第一作者, **SCI IF = 8.665**)

13. Chao Wang (<http://www.pubfacts.com/author/Chao+Wang>)<sup>#</sup>, Yuanchao Zhang (<http://www.pubfacts.com/author/Yuanchao+Zhang>)<sup>#</sup>, **Bing Liu** (<http://www.pubfacts.com/author/Bing+Liu>)<sup>#</sup>, Haixia Long (<http://www.pubfacts.com/author/Haixia+Long>), Chunshui Yu (<http://www.pubfacts.com/author/Chunshui+Yu>), Tianzi Jiang (<http://www.pubfacts.com/author/Tianzi+Jiang>)<sup>\*</sup>. Dosage effects of BDNF Val66Met polymorphism on cortical surface area and functional connectivity. *The Journal of Neuroscience*. 2014;34(7):2645-51. (共同第一作者, **SCI IF = 6.344**)

14. Dawei Wang<sup>#</sup>, **Bing Liu**<sup>#</sup>, Wen Qin, Junping Wang, Yunting Zhang, Tianzi Jiang, Chunshui Yu\*. KIBRA gene variants are associated with synchronization within the default-mode and executive control networks. *NeuroImage*. 2013;69:213-22. (共同第一作者, **SCI IF = 6.357**)

## 科研活动

### 科研项目

- (1) 基于影像遗传学的人脑默认网络及与情感和记忆神经环路的关系研究, 主持, 国家级, 2013-01--2015-12
- (2) 青促会专向, 主持, 部委级, 2012-01--2015-12
- (3) 精神分裂症的脑网络研究, 主持, 国家级, 2011-01--2015-12
- (4) 院卓越青年科学家项目, 主持, 部委级, 2014-01--2016-12
- (5) 精神分裂症工作记忆障碍的脑网络组图谱研究, 参与, 国家级, 2016-01--2018-12
- (6) 基于影像的情绪环路关键节点的脑网络研究, 参与, 部委级, 2013-01--2017-06
- (7) 精神分裂症系统水平表型组学研究, 主持, 国家级, 2016-07--2019-06

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