

CURRICULUM VITAE

Xu Lei Ph.D., Professor, PhD Supervisor, Bayu Scholar distinguished Professor of Chongqing. Principal Investigator, **Director** of *Sleep and NeuroImaging Center*, Faculty of Psychology, Southwest University, and **Associate Director** of *Key Laboratory of Cognition and Personality*, Ministry of Education. Chongqing, China. He was born in Chongqing, China, in 1982. He received the B.S. degree in Information and Computational Science from University of Electronic Science and Technology of China (UESTC), Chengdu, in 2005. In 2011, he received the Ph.D. degree in Biomedical Engineering from UESTC. He is the author or coauthor of more than 60 scientific papers, H-index: 22 ([Visit his Google Scholar Profile](#)). His research interests include memory consolidation during sleep; emotion regulation after sleep deprivation; brain networks associated with sleep disorders; data-driven EEG/fMRI fusion.



Lab Page

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Academic Appointment

Editor of: Plos one (Academic Editor), BioMed Research International (Guist Editor), Frontiers in Neuroscience - Brain Imaging Methods (Review Editor)

Reviewer of: Cereb Cortex, NeuroImage, Human Brain Mapping, Cortex, International Journal of Psychophysiology... More than 20 Journals

Education and Work Experiment

2016.06-current:

Professor of Psychology, Faculty of Psychology, Southwest University

Director of *Sleep and NeuroImaging Center*, Faculty of Psychology,

Southwest University, Chongqing, China

Associate Director of *Key Laboratory of Cognition and Personality*,

Ministry of Education.

2011.07-2016.06:

Associate Professor of Psychology, Faculty of Psychology, Southwest University

Master Advisor of Psychology

2014.9-2015.9:

Visiting Scientist, Cognition and Brain Sciences Unit,
Medical Research Council, University of Cambridge, UK

2005.9-2011.6:

Ph.D. in Biomedical Engineering, School of Life Science and Technology,
University of Electronic Science and Technology of China (UESTC)

2001.9-2005.6:

B.S. Information and Computational Science, School of Mathematics, UESTC

Research Interests

Memory consolidation during sleep
Emotion regulation after sleep deprivation
Neuroimaging of dreaming (day dream and lucid dream)
Neural dynamics during different stages of sleep
Brain networks associated with sleep disorders
Cognitive behavior therapy for insomnia

Courses

Data Analysis of Functional MRI
E-Prime Experimental Design
Research Methods in Psychology
Psychology Research Using EEG
Visit my courses page for more information: <http://www.leixulab.net/course.asp>

Projects and Grants

2017-2020:

Chongqing Research Program of Basic Research and Frontier Technology, Audiovisual information processing during sleep: a neuroimaging study

2016-2019:

National Nature Science Foundation of China (31571111), Simultaneous EEG-fMRI Studies of Sleep-dependent Memory Consolidation

2015-2019:

National High Technology Research and Development Program of China (863 Program) (2015AA020504), Simultaneous EEG-fMRI System: Development and Improvement

2016-2018:

Fundamental Research Funds for the Central Universities (SWU1609109), Multimodality neuroimaging study on the sleep-regulated active forgetting

2013-2015:

National Nature Science Foundation of China (31200857), Non-rapid eye movement sleep: a simultaneous EEG-fMRI study

2013-2015:

Specialized Research Fund for the Doctoral Program of Higher Education of China (20120182120001), Multimodal neuroimaging of sleep deprivation

2012-2014:

Humanity and Social Science Youth foundation of Ministry of Education of China (12YJC190015), Brain network analysis methods based on simultaneous EEG-fMRI

2012-2014:

Fundamental Research Funds for the Central Universities (SWU1209319), Research of Brain Network Based on multimodal Function Signal

Journal Publications

2019 年

1. Xiaoli Huang, Zhiliang Long, **Xu Lei***. Electrophysiological Signatures of the Resting-state fMRI Global Signal: A Simultaneous EEG-fMRI Study. *Journal of Neuroscience Methods*. In Press. DOI: 10.1016/j.jneumeth.2018.09.017. (SCI)
2. Wenjun Gui, Pengyun Wang, **Xu Lei**, Tian Lin, Marilyn Horta, Xiaoyi Liu, Jing Yu*. Sleep facilitates consolidation of positive emotional memory in healthy older adults. *Memory*. In Press. DOI: 10.1080/09658211.2018.1513038. (SCI)

2018 年

1. Wenrui Zhao, Dong Gao, Faguo Yue, Yanting Wang, Dandan Mao, Xinyuan Chen, **Xu Lei***. Response Inhibition Deficits in Insomnia Disorder: An Event-related Potential Study with the Stop-signal Task. *Frontiers in Neurology*. Aug 2018 9:610. (SCI 2017IF 3.508)
2. Xinqi Zhou, **Xu Lei***. Wandering Minds with Wandering Brain Networks. *Neuroscience Bulletin*. Dec 2018 34(6):1017-1028. (SCI 2017IF 3.155)
3. Jing Sheng, Chao Xie, Dong-qiong Fan, **Xu Lei**, Jing Yu*. High definition-transcranial direct current stimulation changes older adults' subjective sleep and corresponding resting-state functional connectivity. *International Journal of Psychophysiology*. DOI: 10.1016/j.ijpsycho.2018.05.002. (SCI)
4. Yun-Rui Liu, Dong-Qiong Fan, Wen-Jun Gui, Zhi-Liang Long, **Xu Lei**, Jing Yu*. Sleep-related brain atrophy and disrupted functional connectivity in older adults. *Behavioural Brain Research*. July 2018 347: 292-299. (SCI)
5. Xiaojuan Dong, Haixia Qin, Taoyu Wu, Hua Hu, Dong Gao, **Xu Lei***. Rest but busy: aberrant resting-state functional connectivity of triple network model in insomnia. *Brain and Behavior*. Feb 2018 8(2): e00876. (SCI 2017IF 2.219)
6. Wei Gao, Shengdong Chen, Bharat Biswal, **Xu Lei**, Jiajin Yuan*. Temporal dynamics of spontaneous default-mode network activity mediate the association between reappraisal and depression. *Social Cognitive and Affective Neuroscience*. Dec 2018 13(12): 1235-1247.
7. Hailing Wang, **Xu Lei**, Zhichao Zhan, Li Yao, Xia Wu*. A new fMRI informed mixed-norm constrained algorithm for EEG source localization. *IEEE Access*. Jan 2018 6: 8258 - 8269. (EI, SCI IF=)

2017 年

1. **Xu Lei***, Keren Liao. Understanding the Influences of EEG Reference: A Large-scale Brain

Network Perspective. *Frontiers in Neuroscience - Brain Imaging Methods*. April 2017 11: 205. (SCI IF=3.87)

2. Jing Yu*, Rui Li, Yuhua Guo, Fang Fang, Suhuan Duan, **Xu Lei***. The resting-state functional connectivity within medial prefrontal cortex mediates age differences in risk taking. *Developmental Neuropsychology*. May 2017 42(3): 187-197. (SCI IF=2.333)
3. Hong Yuan*, Serik Tabarak, Wenxin Su, Yong Liu, Jing Yu, **Xu Lei***. Transcranial Direct Current Stimulation of Medial Prefrontal Cortex Affects Judgments of Moral Violations. *Frontiers in Psychology - Cognitive Science*. Oct 2017 8: 1812. (SCI IF=2.089)
4. Xinqi Zhou, Taoyu Wu, Jing Yu, **Xu Lei***. Sleep Deprivation Makes the Young Brain Resemble the Elderly Brain: A Large-Scale Brain Networks Study. *Brain Connectivity*. Feb 2017 7(1): 58-68.
5. Wenjun Gui, Huijie Li, Yuhua Guo, Peng Peng, **Xu Lei**, Jing Yu*. Age-related differences in sleep-based memory consolidation: A meta-analysis. *Neuropsychologia*. Mar 2017 97: 46-55. (SCI)

2016

1. Xiaoxiao Xu, Hong Yuan, **Xu Lei**. Activation and Connectivity within the Default Mode Network Contribute Independently to Future-Oriented Thought. *Scientific Reports*. Feb 2016 6: 21001.
2. Tianliang Yang, **Xu Lei**, Michael Anderson. Decreased Inhibitory Control of Negative Information in Directed Forgetting. *International Journal of Psychophysiology*. Feb 2016 100: 44-51.
3. Jie Zhang, Wei Cheng, Zhaowen Liu, Kai Zhang, **Xu Lei**, Ye Yao, Benjamin Becker, Yicen Liu, Keith Kendrick, Guangming Lu, Jianfeng Feng. Neural, electrophysiological and anatomical basis of brain-network variability and its characteristic changes in mental disorders. *Brain*. 2016. In Press. DOI: 10.1093/brain/aww143.
4. 雷旭, 赵文瑞. 睡眠影响记忆巩固的同步 EEG-fMRI 研究. *心理科学进展*. Mar 2016 24(3): 327-334.
5. 樊东琼, 李锐, 雷旭, 喻婧. 阿尔兹海默症及轻度认知障碍静息态大尺度脑网络功能连接的变化. *心理科学进展*. Feb 2016 24(2): 217-227.

2015

1. Fei Xin, **Xu Lei**. Competition between frontoparietal control and default networks supports social working memory and empathy. *Social Cognitive and Affective Neuroscience*. Aug 2015 10(8): 1144-1152.
2. **Xu Lei**, Tianliang Yang, Taoyu Wu. Functional Neuroimaging of Extraversion-Introversion. *Neuroscience Bulletin*. Dec 2015 31(6): 663-675.
3. Ming Ye, Tianliang Yang, Peng Qing, **Xu Lei**, Jiang Qiu, Guangyuan Liu. Changes of Functional Brain Networks in Major Depressive Disorder: A Graph Theoretical Analysis of Resting-State fMRI. *Plos One*. Sep 2015 10(9): e0133775.
4. Yulin Wang, Huan Liu, Glenn Hitchman, **Xu Lei**. Module Number of Default Mode Network: Inter-Subject Variability and Effects of Sleep Deprivation. *Brain Research*. Jan 2015 1596: 69-78.
5. **Xu Lei**, Yulin Wang, Hong Yuan, Antao Chen. Brain Scale-free Properties in Awake Rest and NREM Sleep: A Simultaneous EEG/fMRI Study. *Brain Topography*. Mar 2015 28(2): 292-304.

6. Peiyang Li, Xurui Wang, Fali Li, Rui Zhang, Teng Ma, Yueheng Peng, **Xu Lei**, Yin Tian, Daqing Guo, Tiejun Liu, Dezhong Yao, Peng Xu. Autoregressive model in the L_p norm space for EEG analysis. *Journal of Neuroscience Methods*. Jan 2015 240: 170-178.
7. **Xu Lei**, Taoyu Wu, Pedro Valdes-Sosa. Incorporating priors for EEG source imaging and connectivity analysis. *Frontiers in Neuroscience - Brain Imaging Methods*. Aug 2015 9: 284.
8. Changquan Long, Xu Lei, Jie Chen, Yun Chang, Antao Chen, Hong Li. Event-related potential parameters of category and property violations during semantic category-based induction. *International Journal of Psychophysiology*. April 2015 96(3): 141-148.
9. Hong Yuan, Serik Tabarak, Jing Yu, **Xu Lei**. Transcranial direct current stimulation in patients with Alzheimer's disease: Challenges and responses. *ADMET & DMPK*. Sep 2015 3(3): 235-241.
10. 徐晓晓, 喻婧, 辛斐, **雷旭**. 想象未来的认知加工成分及其脑网络. *心理科学进展*. Mar 2015 23(3): 394-404.
11. 杨天亮, 辛斐, **雷旭**. 人类大脑结构和功能的性别差异: 来自脑成像研究的证据. *心理科学进展*. Mar 2015 23(4): 571-581.
12. 贵文君, **雷旭**, 袁宏, 高东, 喻婧. 老化对睡眠依赖性记忆巩固的影响. *心理科学进展*. Sep 2015 23(9): 1568-1578.
13. 汪玉林, **雷旭**. 基于 Think/No-think 范式的动机性遗忘研究: 行为与脑机制. *心理科学*. Sep 2015 5: 1058-1066.

2014

1. Huan Liu, Hong Li, Yulin Wang, **Xu Lei**. Enhanced Brain Small-worldness after Sleep Deprivation: A Compensatory Effect. *Journal of Sleep Research*. Mar 2014 23(5): 553-563. (SCI 2013IF: 3.043)
2. Debo Dong, **Xu Lei**, Tod Jackson, Yulin Wang, Y Su, Hong Chen, 2014. Altered regional homogeneity and efficient response inhibition in restrained eaters. *Neuroscience* 266 116-126.
3. Xin Zhang, **Xu Lei**, Ting Wu, Tianzi Jiang. A review of EEG and MEG for brainnetome research. *Cognitive Neurodynamics* 8(1), 1-12.
4. Xi-Nian Zuo, Jeffrey S Anderson, [...], Xu Lei, [...], Michael P Milham. An open science resource for establishing reliability and reproducibility in functional connectomics. *Scientific Data* 1, 140049.
5. **Xu Lei**, Yulin Wang, Hong Yuan, Dante Mantini. Neuronal oscillations and functional interactions between resting state networks: effects of alcohol intoxication. *Human Brain Mapping*. In Press. DOI: 10.1002/hbm.22418. (SCI 2012IF: 6.878)
6. Tingyong Feng, Pan Feng, Zhencai Chen, **Xu Lei**. Memory consolidation of fear conditioning: bistable amygdala connectivity with dorsal anterior cingulate and medial prefrontal cortex. *Social Cognitive and Affective Neuroscience*. Nov 2014 9(11): 1730-1737. (SCI 2012IF: 5.042)
7. Zhenyu Wang, Peng Xu, Tiejun Liu, Yin Tian, **Xu Lei**, Dezhong Yao. Robust removal of ocular artifacts by combining Independent Component Analysis and system identification. *Biomedical Signal Processing and Control*. Mar 2014 10: 250-259.
8. 崔茜, 雷旭, 杨文静, 王一峰, 张庆林. 有无反馈对欺骗过程的神经机制的调控作用. *中国科学: 生命科学*. Sep 2014 9: 010.

2013

1. **Xu Lei**, Zhiying Zhao, Hong Chen. Extraversion is Encoded by Scale-free Dynamics of Default Mode Network. *NeuroImage*. Jul 2013 74: 52–57. (封面文章) (SCI 2012IF: 6.252)
2. Zhencai Chen, **Xu Lei**(共同第一作者), Cody Ding, Hong Li, Antao Chen. The neural mechanisms of semantic and response conflicts: An fMRI study of practice-related effects in the Stroop task. *NeuroImage*. Feb 2013 66: 577–584.(SCI 2012IF: 6.252)
3. 雷旭, 刘欢, 李红. 睡眠的同步 EEG-fMRI 研究述评. *心理科学进展*. Mar 2013 21(3):448-457.

2012

1. **Xu Lei**, P. Valdes Sosa, D. Yao, EEG/fMRI fusion based on independent component analysis: integration of data-driven and model-driven methods. *Journal of Integrative Neuroscience*. Sep 2012 11(3):313-337.(SCI)
2. **Xu Lei**, Jiehui Hu, dezhong Yao. Incorporating fMRI functional networks in EEG source imaging: A Bayesian model comparison approach. *Brain Topogr*. Jan 2012 25(1): 27-38. (SCI: 876EU 2011IF: 3.288)
3. Li Dong, Yuan Shen, **Xu Lei**, Cheng LUO, Qing-wei Li, Wen-yuan Wu, Dezhong Yao, Chun-bo LI. The heterogeneity of aging brain: altered functional connectivity in default mode network in older adults during verbal fluency tests. *Chinese Medical Journal*. 2012 125(4):604-610.(SCI: 910XK)
4. Cheng Luo, Qifu Li, Yang Xia, **Xu Lei**, Kaiqing Xue, et al. Resting state Basal Ganglia Network in idiopathic generalized epilepsy. *Human Brain Mapping*. 2012. 33:1279-1294. (SCI 2010IF: 6.256)
5. Cheng Luo, Chuan Qiu, Zhiwei Guo, Jiajia Fang, Qifu Li, **Xu Lei**, Yang Xia, Yongxiu Lai, Qiyong Gong, Dong Zhou, Dezhong Yao. Disrupted Functional Brain Connectivity in Partial Epilepsy: A Resting-State fMRI Study. *Plos One* 2012 7(1), e28196.

2011 and before

- (1) **Xu Lei**, Dirk Ostwald, Jiehui Hu, Chuan Qiu, Camillo Porcaro, Andrew P. Bagshaw, Dezhong Yao. Multimodal Functional Network Connectivity: An EEG-fMRI Fusion in Network Space. *Plos One* 2011 6, e24642. (SCI IF: 4.351)
- (2) **Xu Lei**, Peng Xu, Cheng Luo, Jinping Zhao, Dong Zhou, Dezhong Yao. fMRI Functional Networks for EEG Source Imaging. *Hum Brain Mapp*. 2011 32(7):1141-1160. (封面文章) (SCI IF: 6.256)
- (3) **Xu Lei**, Jiehui Hu, dezhong Yao. Incorporating fMRI functional networks in EEG source imaging: A Bayesian model comparison approach. *Brain Topogr*. 2011. In Press. DOI: 10.1007/s10548-011-0187-9 (SCI IF: 2.080)
- (4) **Xu Lei**, Cheng Luo, Dezhong Yao. Imaging epileptic networks using spatial-temporal EEG-fMRI fusion. *International Journal of Bioelectromagnetism*. 2011 13(4):249-254.
- (5) **Xu Lei**, Chuan Qiu, Peng Xu, Dezhong Yao. A parallel framework for simultaneous EEG/fMRI analysis: Methodology and simulation. *NeuroImage*. Sep 2010 52(3): 1123-1134 (SCI: 629FY IF: 5.739)
- (6) **Xu Lei**, Ping Yang, Dezhong Yao. An Empirical Bayesian Framework for Brain Computer Interfaces. *IEEE T Neur Sys Reh*. Dec 2009 17(6): 521-529. (封面文章) (SCI: 540NU IF: 2.934)
- (7) **Xu Lei**, Antao Chen, Peng Xu, Dezhong Yao. Gaussian Source Model based Iterative Algorithm for EEG source Imaging. *Computers in Biology and Medicine*. Nov 2009 39(11):

- 978-988. (SCI: 518KM IF: 1.272)
- (8) **Xu Lei**, Ping Yang, Peng Xu, Tie-Jun Liu, and De-Zhong Yao. Common Spatial Pattern Ensemble Classifier and Its Application in Brain-Computer Interface. *Journal of Electronic Science and Technology of China (Journal of ESTC)*. March 2009 7(1): 17-21.
 - (9) **Xu Lei**, Dezhong Yao. EEG Source Localization Based on Multiple fMRI Spatial Patterns. In: Wang R, Gu F, eds. *Advances in Cognitive Neurodynamics (II)*: Springer Berlin / Heidelberg; 2009:381-386. (EI).
 - (10) **Xu Lei**, Huafu Chen, Dezhong Yao, and Guanhua Luo. An Improved Ordered Subsets Expectation Maximization Reconstruction. In: Jiao L, Wang L, Gao X-b, Liu J, Wu F, eds. *Advances in Natural Computation*: Springer Berlin / Heidelberg; 2006:968-971. (SCI: BFH67).
 - (11) Cheng Luo, Chuan Qiu, Zhiwei Guo, Jiajia Fang, Qifu Li, **Xu Lei**, Yang Xia, Yongxiu Lai, Qiyong Gong, Dong Zhou, Dezhong Yao. Disrupted Functional Brain Connectivity in Partial Epilepsy: A Resting-State fMRI Study. *Plos One* 2011 7(1), e28196. (SCI IF: 4.351)
 - (12) Cheng Luo, Qifu Li, Yang Xia, **Xu Lei**, Kaiqing Xue, et al. Resting state Basal Ganglia Network in idiopathic generalized epilepsy. *Human brain mapping*. 2011. DOI: 10.1002/hbm.21286 (SCI IF: 6.256)
 - (13) 尧德中, 罗程, **雷旭**, 薛开庆, 夏阳, 赖永秀. 脑成像与脑连接. *中国生物医学工程学报* 2011 30(1): 6-10.
 - (14) Peng Xu, Ping Yang, **Xu Lei** and Dezhong Yao. An enhanced probabilistic lda for multi-class brain computer interface. *Plos One*. 2011 6(1), e14634. (SCI IF: 4.351)
 - (15) Cheng Luo, Zhiping Yao, Qifu Li, **Xu Lei**, Dong Zhou et al. Imaging foci of epileptic discharges from simultaneous EEG and fMRI using the canonical HRF. *Epilepsy Res*. 2010 91:133-142. (SCI: 676LQ IF: 2.479)
 - (16) 李凌, 程识君, **雷旭**, 尧德中. 功能磁共振和脑电神经成像技术与大脑刺激相结合的研究进展. *生物化学与生物物理进展*. 2010 37(11): 1188-1194. (SCI: 686UX)
 - (17) Peng Xu, Yin Tian, **Xu Lei** and Dezhong Yao. Neuroelectric source imaging using 3SCO: A space coding algorithm based on particle swarm optimization and l0-norm constraint. *NeuroImage*. 2010 51: 183-205. (SCI: 580WC IF: 5.739)
 - (18) 尧德中, 刘铁军, **雷旭**, 杨平, 徐鹏, 张杨松. 基于脑电的脑-机接口:关键技术和应用前景. *电子科技大学学报*. 2009 38(5): 550-554.
 - (19) Nini Rao, **Xu Lei**, Jianxiu Guo, Hao Huang, Zhenglong Ren. An efficient sliding window strategy for accurate location of eukaryotic protein coding regions. *Computers in Biology and Medicine*. 2009 39(4): 392-395.(SCI: 436SJ IF: 1.272)
 - (20) Ji-Ying Zhong, **Xu Lei** and Dezhong Yao. Semi-Supervised Learning based on Manifold in BCI. *Journal of ESTC*. March 2009 7(1): 22-26.
 - (21) Ping Yang, **Xu Lei**, et al. Probabilistic Methods in Multi-Class Brain-Computer Interface. *Journal of ESTC*. March 2009 7(1): 12-16.
 - (22) AT Chen, **Xu Lei**, et al., Effect of Level of Processing Prior to Response on Cognitive Control: Evidence from ERP. *Journal of ESTC*. March 2009 7(1): 82-87.
 - (23) Y. Huang, Qiang Wu, **Xu Lei**, Ping Yang, et al., An algorithm for Idle-State Detection and Continuous Classifier Design in Motor-Imagery-Based BCI. *Journal of ESTC*. March 2009 7(1): 27-33.
 - (24) Peng Xu; Yin Tian; **Xu Lei**; Xiao Hu; Dezhong Yao. Equivalent Charge Source Model based

- Iterative Maximum Neighbor Weight for Sparse EEG Source Localization. *Annals of Biomedical Engineering*. Dec 2008 36(12): 2051-2067. (SCI: 372YC 2007IF: 2.346)
- (25) 徐鹏; 雷旭; 尧德中. 基于 fMRI 加权约束的 FOCUSS 迭代脑电源定位方法及其初步应用. *生物医学工程学杂志*. 2008 25(6): 1425-1429.
- (26) Wei Liao, Huafu Chen, Qin Yang, **Xu Lei**. Analysis of fMRI Data Using Improved Self-Organizing Mapping and Spatio-temporal Metric Hierarchical Clustering. *IEEE Transactions on Medical Imaging*. Oct 2008 27(10): 1472 - 1483.(SCI: 356YI 2007IF: 3.275)
- (27) Antao Chen, Xuchu Weng, Jiajin Yuan, **Xu Lei**, Qiu Jiang, Dezhong Yao and Hong Li. The Temporal Features of Self-referential Processing Evoked by Chinese Handwriting. *J Cognitive Neurosci*. 2008 20(5): 816–827. (SCI: 285TD 2007IF: 4.997)
- (28) Huafu Chen, **Xu Lei** and Dezhong Yao. An improved ordered subsets expectation maximization positron emission computerized tomography reconstruction. *Computers in Biology and Medicine*. Dec 2007 37(12): 1780-1785.(SCI: 238VM 2007IF: 1.068)

Book and Book Chapters

- (1) Xu Lei, Dezhong Yao. Principles and Techniques of Simultaneous EEG-fMRI [but in Chinese :<]. Beijing, Science Press. Mar. 2014. ISBN 978-7-03-039983-0.
- (2) Xu Lei. EEG-fMRI Fusion Based on Bayesian Theory. PhD Thesis. 2011. University of Electronic Science and Technology of China. Keywords: Simultaneous EEG-fMRI; Fusion; Multimodal imaging; Bayesian theory; EEG source imaging; hemodynamic response function.
- (3) Xu Lei, Dezhong Yao. EEG Source Localization Based on Multiple fMRI Spatial Patterns. In: Wang R, Gu F, eds. *Advances in Cognitive Neurodynamics (II)*: Springer Berlin / Heidelberg; 2009:381-386.
- (4) Xu Lei, Huafu Chen, Dezhong Yao, and Guanhua Luo. An Improved Ordered Subsets Expectation Maximization Reconstruction. In: Jiao L, Wang L, Gao X-b, Liu J, Wu F, eds. *Advances in Natural Computation*: Springer Berlin / Heidelberg; 2006:968-971.

Conference Proceedings

- (1) Xu Lei. Electromagnetic brain imaging based on standardized resting-state networks. 5th International Conference on BioMedical Engineering and Informatics (BMEI'12), Oct 16-18, 2012, Chongqing.(EI).
- (2) Xu Lei, Huan Liu, Anbing Xu, Zhiying Zhao, Yanhan Zhu. BOLD Correlates of Upper and Lower Alpha Rhythms. 18th Annual Meeting of the Organization for Human Brain Mapping(OHBM2012), June 10-14, 2012, Beijing.
- (3) Xu Lei. Stability of resting-state cortical rhythms with and without concurrent fMRI. World Congress on Medical Physics and Biomedical Engineering (WC2012), May 26-31, 2012, Beijing.
- (4) Xu Lei, Dezhong Yao. fMRI Connectivity Networks Improve the Accuracy of EEG Source Localization. 7th International Conference on Cognitive Science (ICCS2010), Aug 17-20, Beijing.
- (5) Peng Xu, Xu Lei, X Hu, Dezhong Yao. Solving of L0 norm constrained EEG inverse problem. *Conf Proc IEEE Eng Med Biol Soc*. 2009; 1:69-72.

Presentation

1. Xu Lei, Yulin Wang, Michael C Anderson , Neural Substrates Underlying Intentional Forgetting: a Simultaneous EEG-fMRI Study, The 6th International Conference on Memory (<http://www.icom2016.com/>), 17-22 July 2016, Budapest , Hungary.
2. Xu Lei, Simultaneous EEG-fMRI: Methods and Applications (<http://www.eee.hku.hk/news/seminars.html>). April 11 2012. University of Hong Kong, Hong Kong.
3. Xu Lei, Multimodal Functional Network Connectivity (<http://www.ccm.org.cn/activities/iscm2012.html>). International Symposium on Computational Medicine. June 15, 2012, Beijing, China.
4. Xu Lei, Cheng Luo, Imaging epileptic networks using EEG/fMRI fusion. The 8th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart & 2011 8th International Conference on Bioelectromagnetism (<http://www.ijbem.org/volume13/number4/index.htm>), May 13-16, 2011. Banff Alberta, Canada.

Personal Data

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These labs are available to anyone who has an approved neutron scattering proposal. The laboratories have been designed to provide a flexible, mobile environment where users can work efficiently. These labs were built to optimize the available space for researchers' ever-changing scientific needs. Many labs offer overhead utilities and mobile furniture, allowing for easy layout reconfiguration for equipment or for quickly changing an experiment's setup.