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WORK EXPERIENCE

- 2016.9- Research Staff, Max Planck Institute for Psycholinguistics / Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands
- 2016.7-2016.8 Visiting Researcher, State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China

EDUCATION

2010.9-2016.6 Ph.D., Cognitive Neuroscience, State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China

2006.9-2010.6 B.S., Computer Science, Beijing Normal University, Beijing, China

AWARDS & HONORS

- 2017 Distinguished Doctorial Dissertation Award (优秀博士学位论文), Beijing Normal University
- 2016 Graduate Student Principal Class Scholarship (特等奖学金), State Key Laboratory of Cognitive Neuroscience and Learning
- 2015 Graduate Student First-class Scholarship (一等奖学金), Beijing Normal University
- 2014 Graduate Student Outstanding Academic Achievement Award, State Key Laboratory of Cognitive Neuroscience and Learning
- 2014.5 Star Volunteer, China Association for Science and Technology
- 2013 Graduate Student First-class Scholarship, Beijing Normal University
- 2013 Outstanding Scientific Contribution Award, State Key Laboratory of Cognitive Neuroscience and Learning
- 2008 The National Encouragement Scholarship and Professional First-class Scholarship
- 2008 Outstanding volunteer for the Beijing Olympics & Paralympics Games, Beijing Normal University

CURRENT RESEARCH AND INTERESTS

Imaging genetics, and applications to basic and applied research: genetics for the language network and brain asymmetry; integration of neuroimaging and gene expression data.

Brain imaging, and big data neuroscience methodologies to examine individual differences in brain structure and function, and open science.

PUBLICATIONS

* *Equally contributed.*

✉ *Corresponding Author*

✉**Kong, X.Z.**, Mathias, S.R., Guadalupe, T., Glahn, D.C., Franke, B., Crivello, F., Tzourio-Mazoyer, N., Fisher, S.E., Thompson, P.M., ✉Francks, C. and ENIGMA Laterality Working Group (2018). Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. *Proceedings of the National Academy of Sciences*, 115(22).

Kong, X. Z., Huang, Y., Hao, X., Hu, S., & Liu, J. (2017). Sex-linked association between cortical scene selectivity and navigational ability. *NeuroImage*, 158, 397–405.

*Zhen, Z., ***Kong, X-Z.**, Huang, L., Yang, Z., Wang, X., Dang, X., Huang, Y., Song, Y., & Liu, J. (2017). Quantifying the variability of scene-selective regions: interindividual, interhemispheric and sex differences. *Human Brain Mapping*, 38(4):2260-2275.

***Kong, X-Z.**, *Song, Y., Zhen, Z., Liu, J. Genetic variation in S100B modulates neural processing of visual scenes in Han Chinese. (2017). *Cerebral Cortex*, 27(2):1326-1336.

Hu, C-P, **Kong, X-Z.**, Wagenmakers, EJ, Ly, A., Peng, K. The Bayes Factor and Its Implementation in JASP: A Practical Primer (贝叶斯因子及其在 JASP 中的实现). (2017). *Advances in Psychological Science (心理科学进展)*, 21 (10), 1874-1882

✉**Kong, X-Z.**, Wang, X., Huang, L., Zhen, Z., & ✉Liu, J. (2016). Human navigation network: intrinsic properties and the behavioral relevance. *Brain Structure and Function*, doi: 10.1007/s00429-016-1243-8.

Kong, X-Z., Liu, Z., Huang, L., Wang, X., Yang, Z., Zhou, G., Zhen, Z., & Liu, J. Mapping individual brain networks using statistical similarity in regional morphology from MRI. (2015). *PLoS ONE*, 10(11): e0141840.

Kong X-Z., Wang X., Huang L., Pu Y., Yang Z., Dang X., Zhen Z., & Liu J. (2014). Measuring individual morphological relationship of cortical regions. *Journal of Neuroscience Methods*, 237, 103-107.

Li J., ✉**Kong X-Z.** (2017). Morphological connectivity correlates with trait impulsivity in healthy adults. *PeerJ*:e3533

***Kong X-Z.**, *Zhen Z., Li X, Lu H-h, Wang R., Liu, L., He, Y., Zang, Y-F, Liu, J. (2014). Individual differences in impulsivity predict head motion during magnetic resonance imaging. *PLoS ONE*, 9(8), e104989.

Kong X-Z. (2014). Association between in-scanner head motion with cerebral white matter microstructure: a multiband diffusion-weighted MRI study. *PeerJ*, 2, e366.

Zhen, Z., Yang, Z., Huang, L., **Kong X-Z.**, Wang, X., Dang, X., Huang, Y., Song, Y., Liu, J. (2015). Quantifying interindividual variability and asymmetry of face-selective regions: A probabilistic functional atlas. *NeuroImage*, 113, 13-25.

Liang, S., Vega, R., **Kong, X.**, Deng, W., Wang, Q., Ma, X., Li, M., Hu, X., Greenshaw, A.J., Greiner, R. and Li, T., 2018. Neurocognitive Graphs of First-Episode Schizophrenia and Major Depression Based on Cognitive Features. *Neuroscience Bulletin*, 34(2), pp.312-320.

Hao, X., Wang, X., Song, Y., **Kong, X.** and Liu, J., 2018. Dual roles of the hippocampus and intraparietal sulcus in network integration and segregation support scene recognition. *Brain Structure and Function*, 223(3), pp.1473-1485.

*Hao, X., *Huang, Y., *Li, X., Song, Y., **Kong, X-Z.**, Wang, X., Yang, Z., Zhen, Z., & Liu, J. (2016). Structural and functional neural correlates of spatial navigation: a combined voxel - based morphometry and functional connectivity study. *Brain and Behavior*, 6(12).

Wang, Y., Zhang, L., **Kong, X-Z.** Hong, Y., Cheon, B., & Liu, J. (2016). Pathway to neural resilience: Self - esteem buffers against deleterious effects of poverty on the hippocampus. *Human brain mapping*, 37(11), 3757-3766.

Huang, Y., **Kong, X-Z.**, Zhen, Z., Liu, J. (2014). The comparison of multiple testing corrections methods in genome-wide association studies (全基因组关联研究中的多重校正方法比较). *Advances in Psychological Science (心理科学进展)*, 21 (10), 1874-1882.

*Wang, X., *Zhen, Z., Song, Y., Huang, L., **Kong, X-Z.**, & Liu, J. The hierarchical structure of the face network revealed by its functional connectivity pattern. *Journal of Neuroscience*, 36 (3), 890-900.

*Li, W., *Li, X., Huang, L., **Kong, X-Z.**, Yang, W., Wei, D., Li J., Cheng H., Zhang Q., Qiu J., Liu J. (2015). Brain structure links trait creativity to openness to experience. *Social Cognitive and Affective Neuroscience*, 10(2), 191-198.

*Yang, Z., *Zhen, Z., Huang, L., **Kong, X-Z.**, Wang, X., Song, Y., & Liu, J. (2016). Neural univariate activity and multivariate pattern in the posterior superior temporal sulcus differentially encode facial expression and identity, *Scientific Reports*, 6: 23427.

Huang, L., Zhou, G., Liu, Z., Dang, X., Yang, Z., **Kong, X-Z.**, Wang, X., Song, Y., Zhen, Z., & Liu, J. (2016). A multi-atlas labeling approach for identifying subject-specific functional regions of interest. *PLoS ONE*. 11(1): e0146868.

*Liu, C., ***Kong, X-Z.**, Liu, X., Zhou, R., & Wu, B. (2013). Long-term total sleep deprivation reduces thalamic gray matter volume in healthy men. *Neuroreport*, 25, 320-323.

Peer-Reviewed Conference Proceedings Articles

Kong, X-Z., Huang, Y., Zhen Z., & Liu, J. Sexually dimorphic relationship of scene-processing activation in the parahippocampal place area with navigational ability. *Annual Academic Conference for Ph.D. Candidates* (2014).

Ongoing Works

Kong, X-Z., Tzourio-Mazoyer, N., Joliot, M., Fedorenko, E., Liu, J., Fisher, S. E., & Francks, C. (2018). Gene Expression Correlates of the Cortical Network Underlying Sentence Processing. *bioRxiv*, 439984. (In submission)

Kong, X-Z., Boedhoe, P., Abe Y., Alonso, P., Ameis S., Arnold P., ..., Francks C. Mapping Cortical and Subcortical Asymmetry in Obsessive-Compulsive Disorder: Findings from the ENIGMA Consortium. (Under revision in *Biological Psychiatry*)

Kong, X-Z., Pu, Y., Wang, X., Xu, S., Hao, X., Zhen, Z., & Liu, J. Intrinsic Hippocampal-Caudate Interaction Correlates with Human Navigation. *bioRxiv*, 116129. (In submission)

Others

China National Invention Patent Number: ZL201410128284.2, Zhen, Z., **Kong, X-Z.**, & Liu, J.

National Software Copyright Number: 2013SR162802, Liu, J., **Kong, X-Z.**, Huang, Y.

PROFESSIONAL ACTIVITIES

Member: Organization for Human Brain Mapping; Society of Biological Psychiatry; Chinese Psychological Society; Chinese Association for Psychological & Brain Sciences

Teaching: Guest lecturer at fMRI Summer School 2013 in Southwest University, Chongqing; Guest lecturer at Brain Imaging Genetics Radboud Summer School 2018, Nijmegen

Conference Committee: Organizing Committee of the Annual Event of Chinese Young Scholars for Human Brain Mapping 2018 Singapore; Organizing Committee of Chinese Association for Psychological & Brain Sciences 2018 Meeting Nijmegen

Editor: Frontiers in Neuroscience (Brain Imaging Methods); Psychology in China

Software/Collection Projects: Nipype; obsBrain; multiBrain; neurohemi; AsymOCD; PIB.

Reviewer: Biological Psychiatry, Cerebral Cortex, Human Brain Mapping, NeuroImage, Brain Structure and Function, Frontiers in Neuroscience, Frontiers in Human Neuroscience, PLOS ONE, Psychology in China (中国心理学前沿), China Medical Equipment (中国医疗设备), OHBM Annual Meeting, COGNOMICS Conference 2017

Talk:

Donders Discussion, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands (Oct. 2018)

ENIGMA Blitz and Dinner, New York Academy of Medicine, New York City, USA (May 2018)

Workshop on Imaging Genetics of Human Brain Laterality, Max Planck Institute, Nijmegen (Jan. 2018)

52brain 2017 Academic Salon, Dusseldorf, Germany (Dec. 2017)

ENIGMA Blitz and Dinner, Vancouver, Canada (Jun. 2017)

Human Brain Project Education Programme - Third HBP School, Obergurgl, Austria (Nov. 2016)

Tsinghua-52brain 2015 Academic Salon for Ph.D. Candidates, Beijing, China (Dec. 2015)

Academic Annual Conference of State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, Beijing Normal University (Jan. 2015)

The 17th National Academic Congress of Psychology, Beijing, China (Oct. 2014)

The 12th Academic Annual Conference for Ph.D. Candidates, Kunming, China (May 2014)

ABSTRACTS/CONFERENCE PRESENTATIONS

Kong X-Z., et al., Mapping Cortical Brain Asymmetry in 17,141 Healthy Individuals Worldwide via the ENIGMA Consortium, *Annual Meeting of the Organization for Human Brain Mapping*, Singapore (17-21 Jun. 2018).

Kong X-Z., et al., A Survey of Altered Brain Anatomical Asymmetry in Obsessive-Compulsive Disorder, *Society of Biological Psychiatry Annual Meeting*, New York City, USA (May 10-12, 2018).

Kong X-Z., et al., Gene Expression Correlates of the Human Language Network, *Neurogenomics: the road ahead*, Nijmegen, The Netherlands (7-8 Sep. 2017)

Kong X-Z., Francks C. Differential Gene Expression Associated with Frontal and Occipital Asymmetries of the Human Brain, *Annual Meeting of the Organization for Human Brain Mapping*, Vancouver, Canada (25-29 Jun. 2017)

Kong X-Z., Fisher S., Francks C. Language-Related Gene Activity: From Gene to Brain to Behavior, *Human Brain Project - Third HBP School*, Obergurgl, Austria (28 Nov. - 4 Dec. 2016)

Xu S., **Kong X-Z.**, Song Y., Liu J. Game-based assessment on visuospatial ability in a large population of human participants: an Internet-based big-data approach, *Beijing Vision Science Conference 2016*, Beijing, China (Jul. 2016)

Kong X-Z., Pu Y., Wang X., Hao X., Zhen Z., Liu J. Weak Intrinsic Functional Connectivity between the Hippocampus and Caudate Is Behaviorally Relevant, *Annual Meeting of the Organization for Human Brain Mapping*, Geneva, Switzerland (Jun. 2016).

Kong, X-Z., Pu, Y., Wang, X., Huang, L., Hao, X., Zhen, Z., & Liu, J. Network-based brain-behavior associations studies with functionally meaningful nodes, *Annual Meeting of the Organization for Human Brain Mapping*, Hawaii, USA (Jun. 2015).

Kong, X-Z., Huang, Y., Zhen, Z., & Liu, J. Serum S100B Levels are Associated With Scene-Processing Activation of the Retrosplenial Cortex in Healthy Young Adults, *The 17th National Academic Congress of Psychology*, Beijing, China (Oct. 2014)

Kong, X-Z., Dang, X., Zhen, Z., & Liu, J. Large-scale anatomical networks: Does node refining matter? *Annual Meeting of the Organization for Human Brain Mapping*, Hamburg, Germany (Jun. 2014).

Kong, X-Z., Zhen, Z., & Liu, J. Measuring Regional Diffusivity Dependency via Mutual Information. In *IEEE International Symposium on Biomedical Imaging*, Beijing, China (Apr. 2014).

Zhen, Z., Huang, L., Yang, Z., **Kong, X-Z.**, Wang, X., Dang, X., Zhou, G., Liu, Z., Song, Y., & Liu, J. An Activity Atlas of the Human Brain, *The 17th National Academic Congress of Psychology*, Beijing, China (Oct. 2014)

Huang, L., Yang, Z., Zhou, G., Liu, Z., Dang, X., **Kong, X-Z.**, Wang, X., Zhen, Z., & Liu, J. FreeROI, *The 17th National Academic Congress of Psychology*, Beijing, China (Oct. 2014)