

Feng Xue, Ph.D.

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Education

Ph.D., Developmental & Educational Psychology, Beijing Normal University, July 2010
Dissertation: The Neural Mechanism Underlying Conflict Processing and Its Plasticity
Advisor: Dr. Qi Dong
B.S., Psychology, Beijing Normal University, June 2002

Professional Employment

2018-2019

Computational & Data Science Research Specialist III
University of California San Diego
Department of Radiology
Data Analysis and Informatics Core of the ABCD project

2017-2018

Bioinformatics Programmer II
University of California San Diego
Department of Radiology
Data Analysis and Informatics Core of the ABCD project

2015-2017

Research Scientist
University of Southern California
Department of Psychology

2014

Adjunct Instructor
The Chicago School of Professional Psychology, Los Angeles Campus

2011-2015

Postdoctoral Research Associate
University of Southern California
Department of Psychology

2010-2012

(Part-time after 2011)

Postdoctoral Researcher
Beijing Normal University
National Key Laboratory of Cognitive Neuroscience and Learning

Awards/Academic Fellowships

USC Postdoctoral Scholar Travel & Training Award, 2013
UCLA Neuroimaging Training Program Fellowship (NIH/NIDA), 2012

Research and Teaching Interests

Cognitive Control; Risky Decision-Making; Habit Formation; Neural Plasticity; Neuroimaging; Social Psychology; Research Method; Research Toolbox Development

Research Tool Development

XFSL: A BASH script library for MRI data management, FSL automation, parallel computation and web application (In Development). Website: <http://xfsl.fmri.cn>

Teaching Experience

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| Adjunct Instructor , PY451L “Social Basis of Behavior” (Graduate level) | Fall 2014 |
| The Chicago School of Professional Psychology, Los Angeles Campus | |
| Coach , Advanced Neuroimaging Data Analysis Workshop, | 2012 |
| Beijing Normal University, Beijing, China | |

Professional Organization Memberships

Social and Affective Neuroscience Society
Organization for Human Brain Mapping

Publications

PEER REVIEWED JOURNAL PUBLICATIONS

Hagler, DJ., ..., **Xue, F.**, ..., Dale, AM. (in press). Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. *NeuroImage*.

Droutman, V., **Xue, F.**, Barkley-Levenson, E., Lam, H. Y., Bechara, A., Smith, B., ... & Read, S. J. (2019). Neurocognitive decision-making processes of casual methamphetamine users. *Neuroimage: clinical*, 21, 101643.

Xue, F., Droutman, V., Barkley-Levenson, EE., Smith, B., Xue, G., Lu, ZL., Bechara, A., Miller, LC., Read, SJ. (2018). The role of the dorsal anterior insula in sexual risk: Evidence from an erotic Go/NoGo task and real-world risk-taking. *Human Brain Mapping*, 39(4), 1555-1562.

Barkley-Levenson, EE., **Xue, F.**, Droutman, V., Miller, LC., Smith, BJ., Jeong, DC.,

Lu, ZL., Bechara, A., Read, SJ. (2018). Prefrontal cortical activity during the Stroop task: New insights into the why and the who of real-world risky sexual behavior. *Annals of Behavioral Medicine*, 52(5), 367-379.

Smith, BJ., **Xue, F.**, Droutman, V., Barkley-Levenson, EE., Melrose, AJ., Miller, LC., Monterosso, JR., Bechara, A., Appleby, PR., Read, SJ. (2017). Virtually ‘in the heat of the moment’: insula activation in safe sex negotiation among risky men. *Social Cognitive and Affective Neuroscience*, 13(1), 80-91.

Liu, G., Weinger, J. G., Lu, Z. L., **Xue, F.**, & Sadeghpour, S. (2015). Efficacy and Safety of MMFS-01, a Synapse Density Enhancer, for Treating Cognitive Impairment in Elderly: A Randomized, Double-Blind, Placebo-Controlled Trial. *Journal of Alzheimer's Disease*, (Preprint), 1-19.

Liu, G., Weinger, J. G., Lu, Z. L., **Xue, F.**, & Sadeghpour, S. (2015). Efficacy and safety of MMFS-01, a synapse density enhancer, for restoring cognitive ability in age-related mild cognitive impairment: A randomized, double-blind, placebo-controlled trial. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 11(7), P900-P901.

Lei, X., Chen, C., **Xue, F.**, He, Q., Chen, C., Liu, Q., et al. (2014). Fiber connectivity between the striatum and cortical and subcortical regions is associated with temperaments in Chinese males. *NeuroImage*, 89(0), 226-234.

Xue, G., **Xue, F.**, Droutman, V., Lu, Z.-L., Bechara, A., & Read, S. (2013). Common Neural Mechanisms Underlying Reversal Learning by Reward and Punishment. *PLoS ONE*, 8(12), e82169.

Mei, L., Xue, G., Lu, Z. L., He, Q., Zhang, M., **Xue, F.**, ... & Dong, Q. (2013). Orthographic transparency modulates the functional asymmetry in the fusiform cortex: An artificial language training study. *Brain and language*, 125(2), 165-172.

Mei, L., Xue, G., Chen, C., **Xue, F.**, Zhang, M., Dong, Q. (2010). The “Visual Word Form Area” is Involved in Successful Memory Encoding of Both Words and Faces. *NeuroImage*. 52(1):371-7.

Li, L., Ding, N., **Xue, F.**, Mei, L., Dong, Q. (2009). Correlation between Clinical Symptoms and Brain Function Changes in Unipolar Depression: An fMRI Study. *Journal of Capital Medical University*. 30(1),32-36. (In Chinese)

Mei, L., Chen, C., Xue, G., He, Q., Li, T., **Xue, F.**, Yang, Q., Dong, Q. (2008). Neural Predictors of Auditory Word Learning. *NeuroReport*. 19(2):215-5.

Dong, Q., Mei, L., Xue, G., Chen, C., Li, T., **Xue, F.**, Huang, S. (2008). Sex-dependent Neurofunctional Predictors of Long-Term Maintenance of Visual Word Learning. *Neuroscience Letters*. 430(2):87-5.

Wang, Y., Xue, G., Chen, C., **Xue, F.**, Dong, Q. (2007). Neural Bases of Asymmetric Language Switching in Second-language Learners: An ER-fMRI Study. *Neuroimage*. Apr 1;35(2):862-9.

Chen, C., Xue, G., Dong, Q., Jin, Z., Li, T., **Xue, F.**, Zhao, L., Guo, Y. (2007). Sex Determines the Neurofunctional Predictors of Visual Word Learning. *Neuropsychologia*. Mar 2;45(4):741-7.

Li, L., Ding, N., **Xue, F.**, Mei, L., Dong, Q. (2007). Changes in Volume of Gray Matter of Depressed Woman Patients. *Chinese Journal of Clinical Psychology*. 15(5):486. (In Chinese)

CONFERENCE ABSTRACTS

Xue, F., Barkley-Levenson, EE., Xue, G., Smith, BJ., Droutman, V., Pham, R., Lu, ZL., Bechara, A., Miller, LC., Read, SJ. (2015). How Risky You are? Survey the Right Frontal Pole. *21th OHBM, Honolulu, HI. U.S.A.*

Xue, F., Xue, G., Droutman, V., Lu, ZL., Bechara, A., Read, SJ. (2013). How can we solve task with tempting information evident from an fMRI study in homosexual. *19th OHBM, Seattle, WA. U.S.A.*

Xue, F., Droutman, V., Xue, G., Lu, ZL., Bechara, A., & Read, SJ. (2013). Common neural mechanism underlying reversal learning by reward and punishment. *Meeting of the Social Affective Neuroscience Society. San Francisco, CA. U.S.A.*

Xue, G., **Xue, F.**, Droutman, V., Lu, ZL., Bechara, A., & Read, SJ. (2013). Common and distinct neural mechanisms for Reinforcement learning by reward and punishment. *Meeting of the Reinforcement Learning and Decision-making conference. Princeton, NJ. U.S.A.*

Xue, F., Xue, G., Mei, L., Lei, X., Chen, C., Dong, Q. (2012) Extensive Practice Improves Stroop Task Performance by Increasing Efficiency in Conflict Resolution. *18th OHBM, Beijing, China.*

Xue, F., Li, L., Han, Y., Lei, X., Li, J., Huang, R., Dong, Q. (2010). Reduced Connectivity in Left Precuneus in Unipolar Depression with Deficiency Syndrome.

16th OHBM, Barcelona, Spain.

Xue, F., Lei, X., Mei, L., Xue, G., Dong, Q. (2009). The Neural Plasticity Associated with Practice in Stroop Task. *CS-2009, Beijing, China.*

PAPERS IN PROGRESS

Xue, F., Barkley-Levenson, EE., Droutman, V., Xue, G., Smith, B., Miller, LC., Lu, ZL., Bechara, A., Read, SJ. Neural Basis of Motivated Decision-making: Role of VLPFC and a VLPFC Centered Neural Network. (Under Review)

Droutman, V., **Xue, F.**, Lam, H., Read, SJ. Does looking for safety lead to risk? The relationship between social exclusion and risk-taking. (Under Review)

Xue, F., Barkley-Levenson, EE., Droutman, V., Xue, G., Smith, BJ., Miller, LC., Lu, ZL., Bechara, A., Read, SJ. The Three Neural Systems Hypothesis in Risky Decision-Making: A New Perspective. (In Preparation)

Xue, F., Xue, G., Mei, L., Lei, X., Chen, C., Dong, Q. Extensive Practice Improved Stroop Task Performance by Improving Efficiency in Conflict Resolution, But Not by Reducing Conflict Itself. (Invited for Resubmission)

AD HOC REVIEWER

Organization for Human Brain Mapping, 2016-2017

PLOS ONE, 2018 (N: 1)

Frontiers and Nature Publishing Group: Research Topic Editor, 2018

Invited Talks

Xue, F., Read, SJ. Neural basis of risky sex: a tale of two brain regions. The 30th APS Annual Convention, San Francisco, California, May, 2018.

Xue, F., Monterosso, JR., Wood, W. Neural Gains and Losses with Habit Formation. The Habit Driven Consumer, Catalina Island, California, August, 2016.

Xue, F., Read, SJ. Risky business: what's behind: Neural mechanism underlying risky decision-making. Social Psychology Brownbag, University of Southern California, November, 2015

Xue, F. FSL SGE Linux: an HPC Application in Neuroimaging Data Analysis. Beijing Normal University, November, 2009.

Xue, F., Li D., Dong, Q. fMR-A Paradigm and Application: An Introduction. *The 11th Chinese Congress of Psychology, Kaifeng, China, 2007.*

Technical Skills

Neuroimaging Software

- FSL / SPM / SDM / MRICron / Connectome workbench / MMPS

Statistical Software

SPSS / R / Excel (VBA / Macro capable).

Machine Learning

- Python / scikit-learn / Pandas.

Software Development

- Matlab / Python / UNIX Shell / MS Visual Basic (designed & developed an experimental software framework for several NSFC/NIH/NSF funded projects).
- Website design & programming (PHP/MySQL, Python/PGSQL & ASP/MSSQL).

Server and Network Administration

- CCNA (CCNP pending, passed switching test in 2015)
- 15+ years of Windows/Linux/Networking administration experience. Designed and deployed several computational clusters for neuroimaging data processing.