

Xueyi Shen

Division of Psychiatry, University of Edinburgh
Edinburgh, United Kingdom

PERSONAL INFORMATION

Citizenship: Chinese
Email: s1517658@sms.ed.ac.uk
Tel: +44 (0)131-537-46656
Address: Kennedy Tower, Royal Edinburgh Hospital, Edinburgh, EH10 5HF

QUALIFICATIONS

Division of Psychiatry, University of Edinburgh, United Kingdom

2015-2019 PhD in Psychiatry

National Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, China

2012-2015 MS in Cognitive Neuroscience

School of Psychology, South China Normal University, China

2008-2012 BS in Psychology

PUBLICATIONS

Cox, S. R., Lyall, D. M., Ritchie, S. J., Bastin, M. E., Harris, M. A., Buchanan, C. R., ... Deary, I. J. (2019). Associations between vascular risk factors and brain MRI indices in UK Biobank. *BioRxiv*, 511253. <http://doi.org/10.1101/511253>

Shen, X., Howard, D.M., Adams, M.J.,... McIntosh, A.M., and Whalley, H.C (2019). A phenome-wide association study of polygenic risk scores for depression using behavioural and neuroimaging phenotypes from UK Biobank. *In Submission*.

Shen, X., Ritakari, T.E., Adams, M.J., Cox, S.R., McIntosh, A.M., and Whalley, H.C (2019). White matter microstructure is related to the mean and within-subject variance of depressive symptoms. *In Submission*.

Harris, M.A., **Shen, X.**, Gibson, J., Cox, S.R., Adams, M.A.,...McIntosh, A.M., and Whalley, H.C (2019). Stratifying major depressive disorder by polygenic risk for schizophrenia: Differences in underlying neurobiology. *In Submission*.

Van Velzen., L.S., Kelly., S., Isaev, D., Aftanas, L.I., Bauer, J.,...Schmaal L (2019). White matter abnormalities in major depression in 2,907 individuals: Findings from the ENIGMA Major Depressive Disorder working group. *In Submission*.

Howard, D.M., Adams, M.J., Clarke, T.K., Hafferty, J.D., Gibson, J.,...McIntosh, A.M. (2019). Genome-wide meta-analysis of depression identifies 102 independent variants and highlights the importance of the prefrontal brain regions. *Nature Neuroscience*. *In Press*.

- de Nooij, L., Harris, M.A., Hawkins, E.L., Shen, X., Clarke, T.K.,...McIntosh, A.M., and Whalley, H.C. (2019). Trajectory of brain maturation in adolescent individuals at familial risk of mood disorder. *In Submission*.
- Neilson, E., **Shen, X.**, Cox, S.R., Clarke, T-K., Wigmore, E.M.,...Whalley, H.C, McIntosh, A.M, and Lawrie, S.M (2019). The causal impact of birth weight on cortical brain structure in UK Biobank. *In Submission*.
- Neilson, E., **Shen, X.**, Cox, S.R., Clarke, T-K., Wigmore, E.M.,...Whalley, H.C, McIntosh, A.M, and Lawrie, S.M (2019). Impact of polygenic risk for Schizophrenia on cortical structure in UK Biobank (n = 2,864). *In Submission*.
- Zhu, R., Wu, H., Xu, Z., Tang, H., **Shen, X.**, Mai, X., & Liu, C. (2019). Early distinction between shame and guilt processing in an interpersonal context. *Social Neuroscience*, 14(1), 53–66.
<http://doi.org/10.1080/17470919.2017.1391119>
- Romaniuk, L., Sandu A., Waiter G., McNeil C.J., **Shen, X.**,...Whalley, H. (2018). The neurobiology of personal control during reward learning and its relation to mood. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 2018
- Whalley, H., Harris, M., **Shen, X.**, Gibson, J., Lawrie, S., & McIntosh, A. (2018). S130. Dissecting the Neuroimaging Phenotype of Major Depressive Disorder Based on Genetic Loading for Schizophrenia. *Biological Psychiatry*, 83(9), S398.
- Harris, M., Cox, S., **Shen, X.**, Adams, M., Lawrie, S., Whalley, H., & McIntosh, A. (2018). S125. Different Definitions Reflect Neurobiologically Distinct Subtypes of Depression. *Biological Psychiatry*, 83(9), S396.
- Barbu, M. C., Zeng, Y., **Shen, X.**, Cox, S., Clarke, T., Gibson, J., ... & Deary, I. J. (2018). Association of whole-genome and NETRIN1 signaling pathway-derived polygenic risk scores for Major Depressive Disorder and thalamic radiation white matter microstructure in UK Biobank. *bioRxiv*, 282053.
- Clarke, T.K., Coleman, J., Wigmore, E., Deary, I., Davies, G., Smith, D., ... & Marioni, R. (2018). Summary statistics for three depression phenotypes in UK Biobank.
- Shen, X.**, Cox, S.R., Adams, M.J., et al. Resting-state connectivity and its association with cognitive performance, educational attainment, and household income in UK Biobank (N= 3,950). *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 2018: 164053.
- Ritchie, S.J., Cox, S.R., **Shen, X.**, et al. (2018) Sex differences in the adult human brain: Evidence from 5,216 UK Biobank participants. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhy109>
- Howard, D. M., Adams, M. J., Shirali, M., Clarke, T. K., Marioni, R. E., Davies, G., ... & Wigmore, E. M. (2018). Genome-wide association study of depression phenotypes in UK Biobank identifies variants in excitatory synaptic pathways. *Nature communications*, 9(1), 1470.
- Reus, L. M., **Shen, X.**, Gibson, J., Wigmore, E., Ligthart, L., Adams, M. J., ... & Deary, I. J. (2017). Association of polygenic risk for major psychiatric illness with subcortical volumes and white matter integrity in UK Biobank. *Scientific Reports*, 7, 42140.
- Shen, X.**, Reus, L. M., Cox, S. R., Adams, M. J., Liewald, D. C., Bastin, M. E., ... & McIntosh, A. M. (2017). Subcortical volume and white matter integrity abnormalities in major depressive disorder: findings from UK Biobank imaging data. *Scientific Reports*, 7(1), 5547.

- Zhu, R., Wu, H., Xu, Z., Tang, H., **Shen, X.**, Mai, X., & Liu, C. (2017). Early distinction between shame and guilt processing in an interpersonal context. *Social neuroscience*, 1-14.
- Zhu, R., Jin, T., **Shen, X.**, Zhang, S., Mai, X., & Liu, C. (2017). Relational utility affects self-punishment in direct and indirect reciprocity situations. *Social Psychology*.
- Zhu, R., **Shen, X.**, Tang, H., Ye, P., Wang, H., Mai, X., & Liu, C. (2017). Self-punishment promotes forgiveness in the direct and indirect reciprocity contexts. *Psychological reports*, 120(3), 408-422.
- Zhu, R., Zhang, S., **Shen, X.**, & Liu, C. (2014). Self-punishment: Contributing Factors, Theoretical Models and Research Prospects. *Advances in Psychological Science*, 22(12), 1935-1943.
- Shen, X.**, Mai, X., & Liu, C. (2015). Application of Internet-based big data in social cognitive science. *Chinese Science Bulletin*, 60(11), 986-993.
- Shen X**, Liu C, Luo YJ (2013). A hundred thousand whys: brain and cognition (sixth edition). Juvenile & children's publishing house. P162-163.
- Feng C, Luo Y, Gu R, Broster LS, **Shen X**, Tian T, Luo YJ, Krueger F (2013). The Flexible Fairness: Equality, Earned Entitlement, and Self-Interest. *PloS one* 8 (9), e73106

PUBLIC PRESENTATIONS

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| Poster presentation in World Congress of Psychiatric Genetics entitled " <i>Polygenic risk of major depressive disorder is associated with white matter microstructure: evidence from UK Biobank imaging study of 9,748 participants</i> " | 2018 |
| Oral presentation in NRS Mental Health Network Seminar entitled " <i>How can neuro-biological models help us understand adolescent depression?</i> " | 2017 |
| Oral presentation in Leith Scottish Women's Institute entitled " <i>Big data, brain and depression</i> " | 2017 |
| Poster presentation in World Congress of Psychiatric Genetics entitled " <i>Resting state functional dynamics in Major Depressive Disorder and relationship with polygenic risk loading: evidence from UK Biobank</i> " | 2017 |
| Poster presentation in the research day of the Centre for Cognitive Ageing and Cognitive Epidemiology, University of Edinburgh, entitled " <i>Subcortical volume and white matter integrity abnormalities in major depressive disorder: findings from UK Biobank (N=4446)</i> " | 2016 |
| Oral presentation in Sackler's Research Day entitled " <i>Subcortical volume and white matter integrity abnormalities in major depressive disorder: findings from the first imaging release of UK Biobank</i> " | 2016 |
| Poster presentation in Organization for Human Brain Mapping entitled " <i>Maladaptive top-down control networks underpin heightened loss aversion in trait anxiety</i> " | 2015 |
| Poster presentation in Organization for Human Brain Mapping entitled " <i>The role of rDLPFC for norm-abiding behavior in advantageous context: A tDCS study</i> " | 2015 |

SELECTED AWARDS

Poster Finalist Award, World Congress of Psychiatric Genetics	2018
Go Abroad Award, University of Edinburgh	2017
Poster Finalist Award, World Congress of Psychiatric Genetics	2017
1 st Award for Posters, CCACE research day	2016
Scholarship for outstanding new students, NKLCNL	2012
Outstanding undergraduate graduation thesis, South China Normal University	2012
Outstanding students award, South China Normal University	2011
First-class scholarship for undergraduates, South China Normal University	2011