ZHEN-QI LIU – CURRICULUM VITAE

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BIOGRAPHY AND INTERESTS

I'm a graduate student in network neuroscience. I work on how complex cognitive and behavioral operations emerge from mesoscale cortical structure and dynamics. I develop network science and machine learning methods for computational neuroscience and neuroimaging.

Connectomics

Computational neuroscience

Machine learning

EDUCATION

2020-present	Ph.D. in Neuroscience, McGill University *Supervisor: Dr. Bratislav Misic*
2018-2020	M.Sc. in Neuroscience, McGill University *Reflections on functional hierarchy and cortico-cortical connections* *Supervisor: Dr. Bratislav Misic*
2014-2018	B.Eng. in Automation, Xi'an Jiaotong University, Honors Youth Program *Functional significance of long-range temporal correlations in neural* *networks with application to brain-inspired computing* *Supervisor: Dr. Shan Yu, Dr. Kai Ye*

PUBLICATIONS

Preprints / Under Review

Rahayel S, Misic B, Zheng YQ, **Liu ZQ**, Abdelgawad A, Abbasi N, Luk K, Dagher A. The agent-based SIR model replicates the spread of alpha-synuclein in the mouse brain.

Published / In Press

Vazquez-Rodriguez B[†], **Liu ZQ**[†], Misic B. (in press) Signal propagation via cortical hierarchies. *Net Neurosci* https://doi.org/10.1101/2020.02.15.950907 ([†]equal contribution, co-first author)

Liu ZQ, Zheng YQ, Misic B. Network topology of the marmoset connectome. (in press) *Net Neurosci* https://doi.org/10.1162/netn_a_00159

CONFERENCE ABSTRACTS

First-author

Liu ZQ, Betzel RF, Misic B. The organization of functional connections without direct structural links. (2020) *Organization for Human Brain Mapping*, Montreal, QC.

Liu ZQ, Betzel RF, Misic B. The organization of functional connections without direct structural links. (2019) *Society for Neuroscience*, Chicago, IL.

Liu ZQ, Zheng YQ, Misic B. Network topology of the mesoscale marmoset connectome. (2019) *Organization for Human Brain Mapping*, Rome, ITA.

Liu ZQ, Zheng YQ, Misic B. Topological organization of the mesoscale marmoset connectome. (2019) *Healthy Brains Healthy Lives Annual Scientific Retreat*, Montreal, QC.

Liu ZQ, Zheng YQ, Misic B. Topological organization of the mesoscale marmoset connectome. (2018) *McConnell Brain Imaging Centre Annual Academic Retreat*, Montreal, QC.

Contributed

Rahayel S, Misic B, Zheng YQ, **Liu ZQ**, Caputo A, Luk K, Dagher A. An agent-based model replicates the pathogenic spread of alpha-synuclein in mice. (2020) *Movement Disorders Society*, Philadelphia, PA.

Vazquez-Rodriguez B, **Liu ZQ**, Hagmann P, Misic B. Signal routing via cortical hierarchies. (2020) *Organization for Human Brain Mapping*, Montreal, QC.
          Selected for **Platform Talk**

Oudyk K, **Liu ZQ**, Markello R, DuPre E, Misic B, Poline JB. Exploring the redundancy of resting-state network connectivity. (2019) *Society for Neuroscience*, Chicago, IL.

AWARDS

2019	GREAT (Graduate Research Enhancement and Travel) Award, McGill University
2018	HBHL's Graduate Student Fellowship (Master's), McGill University
2018	IPN Recruitment Award (Master's), McGill University
2015-2017	Siyuan Scholarship, Xi'an Jiaotong University
2016-2017	Outstanding Student, Xi'an Jiaotong University
2016	XJTU-CASIA Automation Elite Class Program, Xi'an Jiaotong University and Institute of Automation, Chinese Academy of Sciences
2016	Information-technology Talent Program, Xi'an Jiaotong University

SKILLS

Python (fluent), MATLAB, C/C++/C#

TRAINING

Conferences

Organization for Human Brain Mapping (OHBM, 2019, 2020), Society for Neuroscience (SfN, 2019), OCNS

Workshops / Summer schools