Peipei Li

Curriculum Vitae

3939 O'Hara St, 624 LRDC
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Education

University Of Pittsburgh; Center for Neutral Basis Cognition,Carnegie Mellon University
..... ……. Expected 2018 - 2023
Ph.D Candidate, Cognitive Neuroscience

Columbia University .... 2014 - 2015
M.S, Neuroscience.

The Ohio State University ..... 2011 - 2014
B.S, Major Cognitive Neuroscience. Minor Psychology
Cum Laude

Research Experiences

Graduate student researcher, University of Pittsburgh. Mentor: Walter Schneider

Research Assistant, Columbia University Medical Center
Yaakov Stern Cognitive neuroscience of aging Lab. ..... 2015 - 2018

Projects:
1. White matter integrity mediates decline in age-related cognitive control
(Independent project)

2. Connectome-based predictive modeling of processing speed on young and older adults
(Independent project)

3. Explore cognitive aging using reference ability neural network
My role: DTI tractography processing

4. Neural correlate of cognitive reserve
My role: DTI tractography processing

5. Large-sclae neuronal network functional connectivity differs across cognitive phenotype groups in multiple sclerosis
My role: T1 images, resting state functional connectivity processing

6.Clinical trial on the effectiveness of Tolcapone on Frontotemporal Dementia
My role: Longitudinal T1 images segmentation and processing.

7.Neuroticism is linked to smaller hippocampal volume and worse memory in early multiple sclerosis
My role: T1 images, resting state functional connectivity, DTI tractography processing

8.Neural Correlates of Cognitive Phenotypes in Multiple Sclerosis
My role: T1 images, resting state functional connectivity, DTI tractography processing

Research Assistant, Department of Neurological Surgery, The Ohio State University Medical Center, Nakano Ichiro Lab..... 2012 - 2013

Project:
Gene subtype identification of Glioblastoma

My role: Cell Culture, PCR, immunohistochemistry, DNA microarrays, Immunocytochemistry

Research Assistant, Department of Psychology, The Ohio State University
Derick Lindquist's Neurobiology of Learning and Memory Lab..... 2011 - 2012

Projects:
1. Long-term hippocampal-dependent memory is impaired in adult rats exposed to ethanol as neonates
2. Postnatal ethanol exposure reduces expression of trace fear conditioning and ERK1/2 phosphorylation in dorsal hippocampus of adult rats

My role: hippocampus dissection, running behavioral experiments, immunohistochemistry, brain slicing, perfusion, western blotting.

Publications and manuscripts

1. Mao, P., Joshi, K., Li, J, Kim, S.H., **Li, P.**, Santana-Santos, S., … Nakano, I. (2013). Mesenchymal glioma stem cells are maintained by activated glycolytic metabolism involving aldehyde dehydrogenase 1A3. ***Proceedings of the National Academy of Sciences,***110(21), 8644-649.

2. **Li, P.**, Tsapanou, A., Razlighi, R.Q., & Gazes,Y. (2018). White matter integrity mediates decline in age-related inhibition control**.** ***Behavioral Brain Research****.* 339 (26),249-254

3. Gazes,Y., **Li, P.**, Sun, E., Razlighi, R.Q.,& Tsapanou, A(2018). Age specificity in fornix-to-hippocampus association. ***Brain Imaging and Behavior.*** https://doi.org/10.1007/s11682-018-9958-1

4. **Li**, **P.**, He,H., Garcia,V.I, Gazes,Y., Stern, Y. & Habeck, C. Connectome-based predictive modeling predicts individual differences of processing speed in in health young adults (In preparation)

5. Leavitt, V.M.,Shah, K., Fabian**,** M.T., **Li, P.**, Tsapanou, A., Klineova, S., & Sumowski,J.F. Distinct Cognitive Signatures of Depression and Anxiety in Early Multiple Sclerosis (Under review)

Scientific Abstract and Conference Presentations

1. **Li, P.**, He,H., Garcia,V.I, Gazes,Y., Stern, Y. & Habeck, C. Connectome-based predictive modeling predicts individual differences of processing speed in health young adults. ***Society of Neuroscience, 2018***

2. Gazes, Y., Habeck,C.,Razlighi, R.Q., **Li, P.** Differences in functional activation and fractional anisotropy between age-stable ability, vocabulary, and an age-declining ability, perceptual speed, provides support for greater resilience in neural processes for vocabulary ***Society of Neuroscience, 2018***

3. Gazes, Y., **Li, P.**, Razlighi, R.Q., Stern,Y, & Habeck,C. Functional activation, and not white matter integrity, contributes to age related differences in vocabulary
Cognitive Aging, 2018

4. Gazes, Y, **Li, P.**, Razlighi, R.Q., Stern,Y, & Habeck,C.
Crystallized vs. Non-Crystallized abilities in aging.
Human Brain Mapping, 2017

5. **Li, P.**, Tsapanou, A., Razlighi, R.Q., & Gazes,Y.
White matter integrity mediates decline in age-related inhibition control.
Society of Neuroscience, 2017

6. Leavitt, V.M.,Shah, K., Fabian**,** M.T., **Li, P.**, Tsapanou, A., Klineova, S., & Sumowski, J.F.
Neuroticism is linked to smaller hippocampal volume and worse memory in early multiple sclerosis.
European Committee for Treatment and Research in Multiple Sclerosis, 2017

7. Levin, S.N., Habeck, C., Riley,C.S., Sumowski, J.F., **Li,P.**, Tsapanou, A., & Leavitt, V.M.
Neural Correlates of Cognitive Phenotypes in Multiple Sclerosis.
European Committee for Treatment and Research in Multiple Sclerosis, 2017

Relevant courses and workshops

HCP workshop; CONN workshop; Neurohacking in R; introduction to fMRI data analysi; advanced fMRI data analysis

Techniques

Python, R, Matlab, bash, Freesurfer, FSL, SPM, HCP workbench, CONN