**LINYUAN SHI**

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**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**University of Illinois at Urbana-Champaign**, Champaign IL 9.2020 – present

* Candidate for Master of Science in Psychological Sciences

**Johns Hopkins University**, Baltimore MD 9.2016 – 5.2019

* Bachelor of Science
* Neuroscience Honors Degree

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**University of Illinois at Urbana-Champaign,** ChampaignIL

Neuropsychopharmacology lab, ***Research Assistant*** 8.2020 – present

* Mastered brain slice electrophysiology recording technique in 5 months with remote training
* Leading a project on the effect of alcohol and THC co-exposure during adolescence on prefrontal cortex development
* Interviewed and recruited an undergrad into the lab
* Trained undergrads to perform subcutaneous injection on rats

**Johns Hopkins Medical Institute**, Baltimore MD 6.2017 – 6.2020

Worley Lab, ***Research Technologist***

* Compiled protocols and conducted behavioral experiments on mice with Arc regulatory gene knockout, including Open Field, Social Interaction, Y-Maze Spontaneous Alternation, Novel Object Recognition, Pre-pulse Inhibition and Startle Response
* Dissected mice cortex and striatum samples to investigate the role of Arc protein on Dopamine D2 pathway of schizophrenia
* Discovered greater increase in phosphorylated GSK3β level (a downstream signaling protein of D2 pathway) in Arc-KO mice striatum with the injection of antipsychotic drug haloperidol compared to Control group

**Johns Hopkins University,** Baltimore MD 9.2019 – 5.2020

Neuroscience Department, ***Part-time Junior Lecturer***

* Held office hours twice a week; monitored online forum discussions
* Wrote and edited questions for quizzes and exams with the professor
* Supervised undergraduate teaching assistants; organized group grading sessions

**Johns Hopkins University,** Baltimore MD 7.2018 – 1.2019

Dr. Michael Miller’s Lab, ***Research Assistant***

* Performed quality control on 990 segmented MRI brain images of PPMI dataset on Parkinson’s Disease
* Qualitatively compared surface deformations on mid-brain areas from human subjects using shape analysis pipeline

**Johns Hopkins University,** Baltimore MD 2.2017 – 5.2017

Language Comprehension Lab, ***Research Assistant***

* Recruited participants for a computer-based speaking and typing tongue-twister experiment
* Performed EEG experiments on word-typing and identified frontal areas activated during typing

**Hickok Center for Brain Injury**, Rochester NY 5.2016 – 8.2016

***Intern***

* Interviewed 5 brain injury survivors and found that face-to-face talks and computer usage were two main factors in rehabilitation
* Established Go (Japanese chess) project in Hickok to help participants rehabilitate
* Organized morning meetings and “daily news discussion” sessions so that participants stayed connected to the outside world and improved language ability by sharing their comments
* Compiled residents’ feedback and modified Hickok’s Annual Customer Satisfaction Survey

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* **Shi, L.** (2021) The effects of ethanol and THC co-use during adolescence on neuronal plasticity in the prefrontal cortex. Oral presentation at the University of Illinois at Urbana-Champaign Annual Research Fair.
* Yang, L., **Shi, L.**, Wu, J., Savonenko A., Worley P. (2019). Arc regulates dopamine receptor intracellular signaling pathways. In preparation.
* Liu, C., Padhy, S., Ramachandran, S., Wang, VX., Efimov, A., Bernal, A., **Shi, L.**, … Miller, MI. (2019). Using deep Siamese neural networks for detection of brain asymmetries associated with Alzheimer’s Disease and Mild Cognitive Impairment*.**Magnetic Resonance Imaging*, *64*, 190-199. <https://doi.org/10.1016/j.mri.2019.07.003>
* **Shi, L.** (2018). Arc & dopamine signaling pathway in schizophrenia. Oral presentation at Johns Hopkins University Undergraduate Research Symposium.

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* **Schizophrenia Center Annual Symposium** – 2017
* **Society for Neuroscience (SfN)** – Neuroscience 2017

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* **Biochemical Lab skills:** 
  + Mice/rats behavioral experiments
  + PCR, cell culture, protein and DNA gel-electrophoresis
  + In-vitro slice electrophysiology recording
* **Experimental design:** 
  + Literature reviewing, protocol compiling, and pre-registration writing
* **Computer skills:** 
  + Coding with MatLab, Java, and R;
  + Software proficiency: Excel, GraphPad Prism, Image-J, TopScan, ANY-Maze, pCLAMP

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* **Joshua M. Gulley**

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* **Alena Savonenko**

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