# JING LI

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## EDUCATION

**Icahn School of Medicine at Mount Sinai** New York, NY
*Ph.D. in Neuroscience* Expected May 2027

**Duke University** Durham, NC
*Bachelor of Science in Neuroscience with Minor in Psychology* May 2019

Coursework: Machine learning, Computational Psychiatry, Systems Neuroscience, Behavioral and Cognitive Neuroscience, Pathophysiology of Neurological and Psychiatric Disorders, Stats Methods

Skills: Neuroimaging Data Analysis, Machine Learning, Reinforcement Learning, Python

## RESEARCH EXPERIENCE

**Icahn School of Medicine at Mount Sinai** New York, NY
*PhD Researcher* Aug 2022 – Present

- Developed a novel reinforcement learning model to study the emergence of mania in bipolar disorders
- Analyzed fMRI neuroimaging data to identify neural circuitry related to alcohol addiction and used machine learning techniques to distinguish between heavy and light alcohol users
- Analyzed sEEG data from epilepsy patients performing tasks in an EMU setting, providing insights into brain activity during cognitive tasks in humans

**Brigham and Women's Hospital** Boston, MA
*Research Assistant* Aug 2020 – May 2022

- Analyzed lesion datasets and fMRI data to identify brain circuits associated with various psychiatric and neurological disorders, including depression, tic disorders, and pain
- Created computational pipelines for lesion network analysis and individual functional neuroimaging data processing, enhancing data analysis efficiency
- Initiated a symptom-specific clinical trial using a transcranial magnetic stimulation (TMS) to study a novel TMS target for severe anxiety treatment, implementing a neuro-navigation and robotic system to improve TMS delivery precision

**Carney Center for Computational Brain Sciences** Providence, RI
*Research Intern* May – Aug 2019

- Employed a dynamic neural model, the Hierarchical Drift Diffusion Model (HDDM), to examine approach and avoidance behaviors in individuals with major depressive disorder (MDD) compared to healthy controls
- Analyzed model results to identify reduced reward sensitivity in MDD patients, providing insight into the disorder's neural mechanisms

## INDUSTRY EXPERIENCE

**Putnam Associates** Boston, MA
*Associate Consultant* Sep 2019 – Aug 2020

- Analyzed qualitative and quantitative data from physician/patient interviews and surveys to develop market access strategy recommendations for pharmaceutical clients
- Assisted pharmaceutical companies in understanding market dynamics and identifying successful product launch opportunities, contributing to multiple product launches

**CVS Health** Woonsocket, MA
*Strategic Product Development Intern* Jun – Aug 2018

- Designed interview protocols, recruited patients, and collected qualitative and quantitative data on medication adherence behavior, focusing on improving adherence rates
- Analyzed patient behavior research data to identify medication adherence patterns and trends, and presented findings and suggested interventions to management

**IMS Health** Shanghai, China
*Consulting Intern* Dec 2017 – Jan 2018

- Conducted research and analysis on Parkinson's Disease and Atrial fibrillation in China, generating comprehensive disease reports emphasizing unique challenges and unmet needs
- Identified opportunities for community healthcare center development to address unmet healthcare needs and challenges for patients in China

## JOURNAL ARTICLES

[1] Kletenik, I. et al. including Li, J. (2023). Multiple sclerosis lesions that impair memory map to a connected memory circuit. Journal of Neurology. https://doi.org/10.1007/s00415-023-11907-8
[2] Ganos, C. et al. including Li, J. (2022). A neural network for tics: insights from causal brain lesions and deep brain stimulation. Brain. doi:10.1093/brain/awac009
[3] Kim, N. et al. including Li, J. (2022). Network Effects of Brain Lesions Causing Central Post-Stroke Pain. Annals of Neurology. doi: 10.1002/ana.26468

## CONFERENCE POSTERS

[1] Li J, Radulescu A. Dynamic self-efficacy updating as a computational mechanism of mania emergence. (2023). *Computational Psychiatry Conference,* Dublin, Ireland.
[2] Li, J., Jiang, J., Cooke, D., Schineller, M., Press, D., Carpenter, L., Siddiqi, S., & Fox, M. TMS sites connected to the left ventrolateral prefrontal cortex modulate emotional conflict regulation. (2021). *Brain Stimulation*, Charleston, US.
[5] Palm, S. et al. including Li, J. TMS site connectivity to an anxiosomatic network predicts improvements in emotional conflict regulation. (2023). *Brain Stimulation*, Lisbon, Portugal.