

# The Friedman Brain Institute

## 2023 FBI Research Scholars

On behalf of the Philanthropic Leadership Council of The Friedman Brain Institute, we are pleased to announce the 2023 recipients of The FBI Research Scholars Awards.

### Harvey Schwartz Research Scholar Award



**Muhammad A Parvaz, PhD**

Assistant Professor, Psychiatry  
and Neuroscience



**Cheryl M Corcoran, MD**

Associate Professor, Psychiatry

### Neurocomputational modeling to distinguish clinical phenotypes of comorbid psychosis and cannabis use.

Rising prevalence of high-potency cannabis use confers greater than a twofold risk for later development of a primary psychotic disorder. Such high comorbidity often leads to the development of a cannabis-induced psychotic disorder, which only in some cases progresses to become a primary psychotic disorder with comorbid cannabis use, complicating the diagnostic process. Currently, the onset of a primary psychotic disorder is assessed by tracking clinical presentations over time, which is costly, time-consuming, and unfeasible. Here, we propose to develop neurocomputational brain network models using dynamic causal modeling of the person-specific high-density EEG data to mechanistically predict clinical outcomes. These disease-specific and neurobiologically informed models will deepen our understanding of differential mechanisms and will help identify disease-specific targets to develop more effective and personalized treatment and intervention.



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