



## Derrick Buchanan

Postdoctoral Scholar, Psychiatry

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### Bio

#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

#### STANFORD ADVISORS

- Cammie Rolle, Postdoctoral Research Mentor
- Nolan Williams, Postdoctoral Faculty Sponsor

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### Research & Scholarship

#### LAB AFFILIATIONS

- Nolan Williams, Brain Stimulation Lab (10/1/2021)

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### Publications

#### PUBLICATIONS

- **How Common Are Incidental Brain MRI Findings in Psychiatric Populations? Insights From Patients Seeking Accelerated TMS**  
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- **Increased cortical thickness and decreased brain age among special operations veterans with blast TBI after a magnesium-ibogaine protocol. *iScience***  
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- **Neural correlates of ibogaine: Evidence from functional neuroimaging of military veterans. *Biological psychiatry. Cognitive neuroscience and neuroimaging***  
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- **Accelerated recovery using magnesium ibogaine: characterizing the subjective experience of its rapid healing from neuropsychiatric disorders. *Npj mental health research***

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- **Mystical experiences during magnesium-ibogaine are associated with improvements in PTSD symptoms in veterans.** *Journal of affective disorders*  
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- **Magnesium-ibogaine therapy effects on cortical oscillations and neural complexity in veterans with traumatic brain injury** *NATURE MENTAL HEALTH*  
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- **Higher Intensity of Mystical Experience Following Magnesium-Ibogaine is Associated With Larger Decreases in PTSD Severity**  
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- **Disruptive High-Frequency Stimulation of the Limbic System Reduces Theta Band Activity in Relation to Baseline Connectivity**  
Wada, M., Johnson, N., Buchanan, D., Williams, N., Etkin, A., Bhati, M., Rolle, C.  
ELSEVIER SCIENCE INC.2025
- **ACUTE AND LASTING CHANGES IN CORTICAL DYNAMICS AFTER IBOGAINE TREATMENT IN VETERANS WITH TRAUMATIC BRAIN INJURY**  
Lissemore, J., Chaiken, A., Cherian, K., Buchanan, D., Espil, F., Keynan, J., Sridhar, M., Rolle, C., Saggar, M., Keller, C., Williams, N.  
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- **Early differences in lassitude predicts outcomes in Stanford Neuromodulation Therapy for difficult to treat depression.** *Npj mental health research*  
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- **Strategies to Mitigate Scalp Discomfort during Repetitive Transcranial Magnetic Stimulation.** *Brain stimulation*  
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- **Should rTMS be considered a first-line treatment for major depressive episodes in adults?** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*  
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- **Transcranial magnetic stimulation as a countermeasure for behavioral and neuropsychological risks of long-duration and deep-space missions.** *NPJ microgravity*  
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- **Taking modern psychiatry into the metaverse: Integrating augmented, virtual, and mixed reality technologies into psychiatric care.** *Frontiers in digital health*

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- **Acceptability of transcranial direct current stimulation in children and adolescents with ADHD: The point of view of parents** *JOURNAL OF HEALTH PSYCHOLOGY*

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