



Nolan Williams

Clinical Assistant Professor, Psychiatry and Behavioral Sciences

CLINICAL OFFICES

- **Psychiatry and Behavioral Sciences**

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Bio

BIO

Nolan Williams, MD, is a Clinical Assistant Professor of Psychiatry and Behavioral Sciences at Stanford University. Dr. Williams received his medical degree at the Medical University of South Carolina. He then completed his psychiatry and neurology residencies as well as his concurrent research and clinical fellowships at Medical University of South Carolina with Mark George. Dr. Williams joined the faculty in 2014 where he began working with Alan Schatzberg in the Depression Research Clinic. In 2015, Dr. Williams started the Stanford Brain Stimulation Laboratory which he directs.

CLINICAL FOCUS

- Neurology
- Neuropsychiatry
- Interventional Psychiatry
- Psychiatry

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Psychiatry and Behavioral Sciences

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Brain Stimulation Laboratory, (2015- present)
- Chief Resident of Neuropsychiatry, Medical University of South Carolina, (2011-2014)
- Chief Resident of Neurology, Medical University of South Carolina, (2011-2012)

HONORS AND AWARDS

- Domestic Travel Fellowship Award, Society of Biological Psychiatry (2018)
- Innovation Award, Stanford Center for Cognitive and Neurobiological Imaging (2017)
- Interdisciplinary Initiatives Seed Grant Program, Stanford Bio-X (2016-2018)
- NARSAD Young Investigator Award, Brain & Behavior Research Foundation (2016-2018)

- Innovation Accelerator Award, The Stanford Center for Clinical and Translational Research and Education (2016-2017)
- Chairman's Small Grant Program, Stanford Department of Psychiatry (2016)
- Innovation Award, Stanford Center for Cognitive and Neurobiological Imaging (2016)
- Miller Award, Stanford University Department of Psychiatry (2015)
- Career Development Institute for Psychiatry, Stanford University and University of Pittsburgh (2014-2016)
- Chairman's Choice Award, Society of Biological Psychiatry (2014)
- J.J. Cleckley Clinical Excellence Award, Medical University of South Carolina (2014)
- Young Investigator Award, American Neuropsychiatric Association (2014)
- Research Colloquium for Junior Investigators, American Psychiatric Association (2013)
- Drug Abuse Research Training Program at MUSC, National Institute on Drug Abuse (2012-2014)
- Travel Award, American Neuropsychiatric Association (2012)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Neuropsychiatric Association Committee on Research (2016 - present)
- Diplomate, American Board of Psychiatry and Neurology (2014 - present)

PROFESSIONAL EDUCATION

- Board Certification: Psychiatry, American Board of Psychiatry and Neurology (2014)
- NIH R25 Research Fellowship, Medical University of South Carolina (Mentor: Mark George, MD) , Human Neuroscience (2014)
- Clinical Fellowship, Medical University of South Carolina (Mentor: Mark George, MD) , Interventional Psychiatry (2014)
- Residency, Medical University of South Carolina , Psychiatry (2014)
- Residency, Medical University of South Carolina , Neurology (2014)
- Internship, Medical University of South Carolina , Internal Medicine (2009)
- MD, Medical University of South Carolina , Medicine (2008)

Research & Scholarship

CLINICAL TRIALS

- Rapid Non-Invasive Brain Stimulation for OCD (oTMS), Recruiting
- Use of Repetitive Transcranial Magnetic Stimulation to Augment Hypnotic Analgesia, Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Research Mentor

James Bishop, Eleanor Cole, Xiaoqian Xiao

Publications

PUBLICATIONS

- **Attenuation of Antidepressant Effects of Ketamine by Opioid Receptor Antagonism.** *The American journal of psychiatry*
Williams, N. R., Heifets, B. D., Blasey, C., Sudheimer, K., Pannu, J., Pankow, H., Hawkins, J., Birnbaum, J., Lyons, D. M., Rodriguez, C. I., Schatzberg, A. F.
2018: appiajp201818020138
- **High-dose spaced theta-burst TMS as a rapid-acting antidepressant in highly refractory depression.** *Brain : a journal of neurology*

- Williams, N. R., Sudheimer, K. D., Bentzley, B. S., Pannu, J., Stimpson, K. H., Duvio, D., Cherian, K., Hawkins, J., Scherrer, K. H., Vyssoki, B., DeSouza, D., Raj, K. S., Keller, et al
2018
- **Five Year Follow-Up of Bilateral Epidural Prefrontal Cortical Stimulation for Treatment-Resistant Depression** *BRAIN STIMULATION*
Williams, N. R., Short, E. B., Hopkins, T., Bentzley, B. S., Sahlem, G. L., Pannu, J., Schmidt, M., Borckardt, J. J., Korte, J. E., George, M. S., Takacs, I., Nahas, Z.
2016; 9 (6): 897-904
 - **Deep brain stimulation (DBS) at the interface of neurology and psychiatry** *JOURNAL OF CLINICAL INVESTIGATION*
Williams, N. R., Okun, M. S.
2013; 123 (11): 4546-4556
 - **Closing the loop on impulsivity via nucleus accumbens delta-band activity in mice and man.** *Proceedings of the National Academy of Sciences of the United States of America*
Wu, H., Miller, K. J., Blumenfeld, Z., Williams, N. R., Ravikumar, V. K., Lee, K. E., Kakusa, B., Sacchet, M. D., Wintermark, M., Christoffel, D. J., Rutt, B. K., Bronte-Stewart, H., Knutson, et al
2018; 115 (1): 192-97
 - **Influence of gender on inpatient treatment for bipolar disorder: An analysis of 60,607 hospitalisations** *JOURNAL OF AFFECTIVE DISORDERS*
Fellinger, M., Waldhoer, T., Blueml, V., Williams, N., Vyssoki, B.
2018; 225: 104-7
 - **Modulation of the Neural Circuitry Underlying Trait Hypnotizability With Spaced Continuous Theta-Burst Stimulation**
Williams, N., Sudheimer, K., Stimpson, K., Duvio, D., Chung, C., DeSouza, D., Jo, B., Williams, L., Yeomans, D., Spiegel, D.
NATURE PUBLISHING GROUP.2017: S508-S509
 - **Neuroversion: using electroconvulsive therapy as a bridge to deep brain stimulation implantation** *NEUROCASE*
Williams, N. R., Sahlem, G., Pannu, J., Takacs, I., Short, B., Revuelta, G., George, M. S.
2017; 23 (1): 26-30
 - **It Takes Time to Tune** *Annals of Translational Medicine*
Bentzley, B. S., Pannu, J., Badran, B. W., Halpern, C. H., Williams, N. R.
2017; In Press
 - **Optimization of epidural cortical stimulation for treatment-resistant depression.** *Brain stimulation*
Williams, N. R., Bentzley, B. S., Hopkins, T., Pannu, J., Sahlem, G. L., Takacs, I., George, M. S., Nahas, Z., Short, E. B.
2017
 - **Description of a Novel, Surgically Implanted Neuromodulatory Technique Known as Bilateral Epidural Prefrontal Cortical Stimulation (EpCS) for Treatment-Resistant Depression (TRD)** *Journal of Visualized Experiments*
Williams, N. R., Pannu, J., Bentzley, B. B., Hopkins, T., Badran, B. W., Short, E., George, M. S., Takacs, I., Nahas, Z.
2017; In Press
 - **Unilateral ultra-brief pulse electroconvulsive therapy for depression in Parkinson's disease.** *Acta neurologica Scandinavica*
Williams, N. R., Bentzley, B. S., Sahlem, G. L., Pannu, J., Korte, J. E., Revuelta, G., Short, E. B., George, M. S.
2016
 - **Reward circuit DBS improves Parkinson's gait along with severe depression and OCD** *NEUROCASE*
Williams, N. R., Hopkins, T. R., Short, E. B., Sahlem, G. L., Snipes, J., Revuelta, G. J., George, M. S., Takacs, I.
2016; 22 (2): 201-204
 - **NMDA antagonist treatment of depression.** *Current opinion in neurobiology*
Williams, N. R., Schatzberg, A. F.
2016; 36: 112-117
 - **Beyond Neural Cubism: Promoting a Multidimensional View of Brain Disorders by Enhancing the Integration of Neurology and Psychiatry in Education** *ACADEMIC MEDICINE*
Taylor, J. J., Williams, N. R., George, M. S.
2015; 90 (5): 581-586

- **Oscillating Square Wave Transcranial Direct Current Stimulation (tDCS) Delivered During Slow Wave Sleep Does Not Improve Declarative Memory More Than Sham: A Randomized Sham Controlled Crossover Study** *BRAIN STIMULATION*
Sahlem, G. L., Badran, B. W., Halford, J. J., Williams, N. R., Korte, J. E., Leslie, K., Strachan, M., Breedlove, J. L., Runion, J., Bachman, D. L., Uhde, T. W., Borckardt, J. J., George, et al
2015; 8 (3): 528-534
- **Adjunctive triple chronotherapy (combined total sleep deprivation, sleep phase advance, and bright light therapy) rapidly improves mood and suicidality in suicidal depressed inpatients: An open label pilot study** *JOURNAL OF PSYCHIATRIC RESEARCH*
Sahlem, G. L., Kalivas, B., Fox, J. B., Lamb, K., Roper, A., Williams, E. N., Williams, N. R., Korte, J. E., Zuschlag, Z. D., El Sabbagh, S., Guille, C., Barth, K. S., Uhde, et al
2014; 59: 101-107
- **Role of functional imaging in the development and refinement of invasive neuromodulation for psychiatric disorders.** *World journal of radiology*
Williams, N. R., Taylor, J. J., Lamb, K., Hanlon, C. A., Short, E. B., George, M. S.
2014; 6 (10): 756-778
- **Interventional Psychiatry: Why Now?** *JOURNAL OF CLINICAL PSYCHIATRY*
Williams, N. R., Taylor, J. J., Kerns, S., Short, E. B., Kantor, E. M., George, M. S.
2014; 75 (8): 895-897
- **Interventional Psychiatry: How Should Psychiatric Educators Incorporate Neuromodulation into Training?** *ACADEMIC PSYCHIATRY*
Williams, N. R., Taylor, J. J., Snipes, J. M., Short, E. B., Kantor, E. M., George, M. S.
2014; 38 (2): 168-176
- **STN vs. GPi Deep Brain Stimulation: Translating the Rematch into Clinical Practice.** *Movement disorders clinical practice*
Williams, N. R., Foote, K. D., Okun, M. S.
2014; 1 (1): 24-35
- **Incidence of sport-related traumatic brain injury and risk factors of severity: a population-based epidemiologic study** *ANNALS OF EPIDEMIOLOGY*
Selassie, A. W., Wilson, D. A., Pickelsimer, E. E., Voronca, D. C., Williams, N. R., Edwards, J. C.
2013; 23 (12): 750-756
- **Unique Case of "Post-Lumbar Puncture Headache"** *HEADACHE*
Patel, B. A., Williams, N. R., Pritchard, P. B.
2013; 53 (9): 1479-1481
- **Sports-Related Concussions** *PEDIATRIC EMERGENCY CARE*
Upshaw, J. E., Gosserand, J. K., Williams, N., Edwards, J. C.
2012; 28 (9): 926-935
- **High school coaches perceptions of physicians' role in the assessment and management of sports-related concussive injury.** *Frontiers in neurology*
Williams, N., Sas, A., Madey, J., Bodle, J., Scovel, L., Edwards, J.
2012; 3: 130-?
- **Diagnosis, Treatment, and Long-Term Outcomes of Late-Onset (Type III) Multiple Acyl-CoA Dehydrogenase Deficiency** *JOURNAL OF CHILD NEUROLOGY*
Pollard, L. M., Williams, N. R., Espinoza, L., Wood, T. C., Spector, E. B., Schroer, R. J., Holden, K. R.
2010; 25 (8): 954-960
- **Relapse rates with long-term antidepressant drug therapy: a meta-analysis** *HUMAN PSYCHOPHARMACOLOGY-CLINICAL AND EXPERIMENTAL*
Williams, N., Simpson, A. N., Simpson, K., Nahas, Z.
2009; 24 (5): 401-408