

# Stanford

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## Ian H. Kratter, MD, PhD

Clinical Assistant Professor, Psychiatry and Behavioral Sciences

### CLINICAL OFFICE (PRIMARY)

- **Psychiatry**

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### Bio

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#### BIO

Dr. Kratter is an adult psychiatrist and fellowship-trained neuropsychiatrist and Clinical Assistant Professor in the Department of Psychiatry & Behavioral Sciences at Stanford University School of Medicine. He is also director of Invasive Technologies in the Stanford Brain Stimulation Laboratory.

His clinical interests include the psychiatric and cognitive aspects of movement disorders like Parkinson's and Tourette's as well as depression, obsessive-compulsive disorder, and non-invasive and invasive neuromodulation for neuropsychiatric illness.

His research interests focus on assessing outcomes and understanding the mechanisms of both neuromodulatory and novel pharmacological treatments. This includes both clinical and more mechanistic studies, such as using techniques like repetitive transcranial magnetic stimulation (rTMS) and deep brain stimulation in combination with neuroimaging and electrophysiology. He has been a co-investigator for such studies focusing on obsessive-compulsive disorder, major depressive disorder, and suicidal ideation, and traumatic brain injury.

His work has appeared in a number of scientific journals including Nature Medicine, American Journal of Psychiatry, Journal of Clinical Investigation, Translational Psychiatry, and Proceedings of the National Academy of Science. He also co-authored the chapter on major depression in the textbook Deep Brain Stimulation: Techniques and Practice.

#### CLINICAL FOCUS

- Psychiatry
- Neuropsychiatry
- Interventional Psychiatry

#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Psychiatry and Behavioral Sciences

## PROFESSIONAL EDUCATION

- Board Certification, United Council for Neurologic Subspecialties , Behavioral Neurology and Neuropsychiatry (2020)
- Board Certification: Psychiatry, American Board of Psychiatry and Neurology (2019)
- Fellowship: Stanford University Psychiatry and Behavioral Sciences (2020) CA
- Residency: Western Psychiatric Institute and Clinic (2019) PA
- Medical Education: University of California San Francisco Registrar Office (2015) CA

## Research & Scholarship

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### CLINICAL TRIALS

- Accelerated Intermittent Theta-Burst Stimulation (aiTBS) in Treatment-Resistant Depression of Bipolar II Disorder, Recruiting
- Neuroimaging Biomarkers for Predicting rTMS Response in OCD, Recruiting
- Opiate Suicide Study in Patients With Major Depression, Recruiting
- Accelerated Theta Burst in Treatment-Resistant Depression: A Dose Finding and Biomarker Study, Not Recruiting
- Pilot Accelerated Theta Burst in Treatment-Resistant Bipolar Depression, Not Recruiting

## Publications

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### PUBLICATIONS

- **Early differences in lassitude predicts outcomes in Stanford Neuromodulation Therapy for difficult to treat depression.** *Npj mental health research*  
Benrimoh, D., Azeez, A., Batail, J. M., Xiao, X., Buchanan, D., Bandeira, I. D., Geoly, A., Keynan, Y., Kratter, I. H., Williams, N. R.  
2024; 3 (1): 49
- **Huntingtin contains an ubiquitin-binding domain and regulates lysosomal targeting of mitochondrial and RNA-binding proteins.** *Proceedings of the National Academy of Sciences of the United States of America*  
Fote, G. M., Eapen, V. V., Lim, R. G., Yu, C., Salazar, L., McClure, N. R., McKnight, J., Nguyen, T. B., Heath, M. C., Lau, A. L., Villamil, M. A., Miramontes, R., Kratter, et al  
2024; 121 (32): e2319091121
- **Increased anti-correlation between the left dorsolateral prefrontal cortex and the default mode network following Stanford Neuromodulation Therapy (SNT): analysis of a double-blinded, randomized, sham-controlled trial.** *Npj mental health research*  
Gajawelli, N., Geoly, A. D., Batail, J. M., Xiao, X., Maron-Katz, A., Cole, E., Azeez, A., Kratter, I. H., Saggat, M., Williams, N. R.  
2024; 3 (1): 35
- **A Preliminary Investigation of Repetitive Transcranial Magnetic Stimulation Applied to the Left Dorsolateral Prefrontal Cortex in the Treatment of Cannabis Use Disorder**  
Sahlem, G., Baker, N., Sherman, B., Wagner, A., Wong, B., Caruso, M., Campbell, L., Kaloani, I., Ford, T. J., Musli, H., Geoly, A., Williams, N., Kratter, et al  
ELSEVIER IRELAND LTD.2024
- **Causal Network Localization of Novel Brain Stimulation Targets for Transdiagnostic Trait Anxiety**  
Siddiqi, S., Klingbeil, J., Kratter, I., Blumberger, D., George, M., Grafman, J., Pascual-Leone, A., Richardson, R., Talati, P., Vila-Rodriguez, F., Downar, J., Hershey, T., Black, et al  
ELSEVIER SCIENCE INC.2024: S32
- **Comparing the Antisuicidal and Antidepressant Effects of Intravenous Ketamine in Major Depressive Episodes With Suicidal Ideation**  
Bandeira, I. D., Tucciarone, J., Kratter, I. H., Heifets, B. D., Pankow, H., Chang, M., Hawkins, J., Schatzberg, A. F.  
ELSEVIER SCIENCE INC.2024: S211
- **Causal network localization of brain stimulation targets for trait anxiety.** *Research square*  
Siddiqi, S. H., Klingbeil, J., Webler, R., Kratter, I. H., Blumberger, D. M., Fox, M. D., George, M. S., Grafman, J. H., Pascual-Leone, A., Pines, A. R., Richardson, R. M., Talati, P., Vila-Rodriguez, et al  
2024

- **Pilot study of stanford neuromodulation therapy (SNT) for bipolar depression.** *Brain stimulation*  
Raj, K. S., Geoly, A. D., Veerapal, C., Gholmieh, M., Toosi, P., Espil, F. M., Batail, J., Kratter, I. H., Williams, N. R.  
2024
- **Magnesium-ibogaine therapy in veterans with traumatic brain injuries.** *Nature medicine*  
Cherian, K. N., Keynan, J. N., Anker, L., Faerman, A., Brown, R. E., Shamma, A., Keynan, O., Coetzee, J. P., Batail, J., Phillips, A., Bassano, N. J., Sahlem, G. L., Inzunza, et al  
2024
- **Sustained Efficacy of Stanford Neuromodulation Therapy (SNT) in Open-Label Repeated Treatment.** *The American journal of psychiatry*  
Geoly, A. D., Kratter, I. H., Toosi, P., Cole, E. J., Sahlem, G. L., Williams, N. R.  
2024; 181 (1): 71-73
- **A preliminary randomized controlled trial of repetitive transcranial magnetic stimulation applied to the left dorsolateral prefrontal cortex in treatment seeking participants with cannabis use disorder.** *Drug and alcohol dependence*  
Sahlem, G. L., Kim, B., Baker, N. L., Wong, B. L., Caruso, M. A., Campbell, L. A., Kaloani, I., Sherman, B. J., Ford, T. J., Musleh, A. H., Kim, J. P., Williams, N. R., Manett, et al  
2023; 254: 111035
- **Responsive deep brain stimulation guided by ventral striatal electrophysiology of obsession durably ameliorates compulsion.** *Neuron*  
Nho, Y. H., Rolle, C. E., Topalovic, U., Shivacharan, R. S., Cunningham, T. N., Hiller, S., Batista, D., Feng, A., Espil, F. M., Kratter, I. H., Bhati, M. T., Kellogg, M., Raslan, et al  
2023
- **Network effects of Stanford Neuromodulation Therapy (SNT) in treatment-resistant major depressive disorder: a randomized, controlled trial.** *Translational psychiatry*  
Batail, J., Xiao, X., Azeez, A., Tischler, C., Kratter, I. H., Bishop, J. H., Saggat, M., Williams, N. R.  
2023; 13 (1): 240
- **Targeted neurostimulation reverses a spatiotemporal biomarker of treatment-resistant depression.** *Proceedings of the National Academy of Sciences of the United States of America*  
Mitra, A., Raichle, M. E., Geoly, A. D., Kratter, I. H., Williams, N. R.  
2023; 120 (21): e2218958120
- **Depression history modulates effects of subthalamic nucleus topography on neuropsychological outcomes of deep brain stimulation for Parkinson's disease.** *Translational psychiatry*  
Kratter, I. H., Jorge, A., Feyder, M. T., Whiteman, A. C., Chang, Y., Henry, L. C., Karp, J. F., Richardson, R. M.  
2022; 12 (1): 213
- **Lateralized Effect of Thalamic Deep Brain Stimulation Location on Verbal Abstraction.** *Movement disorders : official journal of the Movement Disorder Society*  
Wang, D., Jorge, A., Lipski, W. J., Kratter, I. H., Henry, L. C., Richardson, R. M.  
2021
- **Can (or Should) We Treat Depression and Anxiety in Parkinson's Disease Algorithmically?** *The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry*  
Martyna, M. R., Trapp, N. T., Kratter, I. H.  
2021
- **Association of Preoperative Visual Hallucinations With Cognitive Decline After Deep Brain Stimulation for Parkinson's Disease.** *The Journal of neuropsychiatry and clinical neurosciences*  
Kratter, I. H., Karp, J. F., Chang, Y., Whiteman, A. C., Feyder, M. T., Jorge, A., Richardson, R. M., Henry, L. C.  
2020: appineuropsych20040077
- **Anterior Sensorimotor Subthalamic Nucleus Stimulation Is Associated With Improved Voice Function.** *Neurosurgery*  
Jorge, A., Dastolfo-Hromack, C., Lipski, W. J., Kratter, I. H., Smith, L. J., Gartner-Schmidt, J. L., Richardson, R. M.  
2020
- **DBS in major depression** *Deep Brain Stimulation: Techniques and Practice*  
Kratter, I. H., Richardson, R., Karp, J. F.  
Thieme Medical Publishers.2019

- **Serine 421 regulates mutant huntingtin toxicity and clearance in mice** *JOURNAL OF CLINICAL INVESTIGATION*  
Kratter, I. H., Zahed, H., Lau, A., Tsvetkov, A. S., Daub, A. C., Weiberth, K. F., Gu, X., Saudou, F., Humbert, S., Yang, X., Osmand, A., Steffan, J. S., Masliah, et al  
2016; 126 (9): 3585–97
- **Sequence-Level Analysis of the Major European Huntington Disease Haplotype** *AMERICAN JOURNAL OF HUMAN GENETICS*  
Lee, J., Kim, K., Shin, A., Chao, M. J., Abu Elneel, K., Gillis, T., Mysore, J., Kaye, J. A., Zahed, H., Kratter, I. H., Daub, A. C., Finkbeiner, S., Li, et al  
2015; 97 (3): 435–44
- **Targeting H3K4 trimethylation in Huntington disease** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Vashishtha, M., Ng, C. W., Yildirim, F., Gipson, T. A., Kratter, I. H., Bodai, L., Song, W., Lau, A., Labadorf, A., Vogel-Ciernia, A., Troncosco, J., Ross, C. A., Bates, et al  
2013; 110 (32): E3027–E3036
- **PolyQ Disease: Too Many Qs, Too Much Function?** *NEURON*  
Kratter, I. H., Finkbeiner, S.  
2010; 67 (6): 897–99
- **Stereoselective macrocyclization through zirconocene-mediated coupling of achiral dialkynes** *CHEMICAL COMMUNICATIONS*  
Tannaci, J. F., Kratter, I. H., Rider, E. A., McBee, J. L., Miller, A. D., Tilley, T.  
2009: 233–34

## PRESENTATIONS

- Preoperative impulsivity and visual hallucinations are associated with specific patterns of cognitive changes following deep brain stimulation for Parkinson's disease - The American Neuropsychiatric Association Annual Meeting (3/22/2019)
- Antipsychotic-induced thrombocytopenia: A case presentation and literature review - UPMC Psychosomatic Medicine Conference (4/2017)
- Serine 421 is a crucial mediator of pathology in a mouse model of Huntington's disease - Society for Neuroscience annual meeting (11/2011)
- Zirconocene Coupling Routes to Novel Chiral Macrocycles - Honors Symposium, Department of Molecular and Cell Biology, Neurobiology Division, UC Berkeley (4/2005)