



## Mahendra Bhati

- Clinical Professor, Psychiatry and Behavioral Sciences
- Clinical Associate Professor, Neurosurgery

### CLINICAL OFFICES

- **Psychiatry Clinic**

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### Bio

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#### BIO

Dr. Bhati is a board certified neuropsychiatrist with expertise in psychiatric diagnosis, psychopharmacology, and neuromodulation. He completed postdoctoral research studying transcranial magnetic stimulation (TMS) evoked potentials in schizophrenia and was a principle investigator for the DSM-5 academic field trials. His research experience included roles as an investigator in the first controlled clinical trials of deep brain stimulation and low field synchronized TMS for treatment of depression. His current interests include studying TMS-evoked potentials as biomarkers for neuropsychiatric disorders, augmented-reality TMS, closed-loop responsive neurostimulation for treatment of impulse and fear-related disorders, and magnetic resonance guided focused ultrasound for treatment-resistant obsessive compulsive disorder and depression.

#### CLINICAL FOCUS

- Psychiatry
- Psychopharmacology
- Neuromodulation

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Psychiatry and Behavioral Sciences
- Clinical Associate Professor, Neurosurgery

#### ADMINISTRATIVE APPOINTMENTS

- Director of Electroconvulsive Therapy, Stanford University Hospital, (2016- present)
- Chief of Interventional Psychiatry, Stanford University, (2016- present)

#### HONORS AND AWARDS

- Small Grant Program Award, Stanford University Department of Psychiatry (2018)
- Health Care Hero, University of Pennsylvania Health System (2014)
- Earl Bond Award, University of Pennsylvania Department of Psychiatry (2013)

- Irma Bland Award for Excellence in Teaching Residents, American Psychiatric Association (2012)
- Stunkard Faculty Award, University of Pennsylvania Department of Psychiatry (2010)
- Junior Investigator Grant Award, University of Pennsylvania (2007)
- Travel Fellowship Award, Society of Biological Psychiatry (2006)
- Ruth L. Kirschstein National Research Service Award, National Institutes of Health (2005-2007)
- Clinical Research Scholar, National Institutes of Health (2002-2005)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, American College of Psychiatrists (2018 - present)
- Affiliate, Stanford Neurosciences Institute (2017 - present)
- Member, Society of Biological Psychiatry (2017 - present)
- Psychiatric Disease Steering Committee, Focused Ultrasound Foundation (2016 - present)
- Member, International Society for ECT and Neurostimulation (2009 - present)
- Diplomate, American Board of Psychiatry and Neurology (2006 - present)
- Member, American Society of Clinical Psychopharmacology (2005 - present)
- Member, American Medical Association (1997 - present)
- Member, American Psychiatric Association (1997 - present)

## **PROFESSIONAL EDUCATION**

- Postdoctoral research, University of Pennsylvania , Neuropsychiatry (2007)
- Residency, University of Pennsylvania , Psychiatry (research track) (2005)
- Medical Education: Louisiana State University Health Sciences Center Registrar (2001) LA
- B.S., Emory University , Biology (1996)
- B.A., Emory University , Chemistry (1996)

## **LINKS**

- Stanford Psychiatry: <http://med.stanford.edu/psychiatry.html>
- Stanford Neurosurgery: [http://med.stanford.edu/neurosurgery/people/research\\_faculty.html](http://med.stanford.edu/neurosurgery/people/research_faculty.html)
- Stanford Neurosciences Institute: <https://neuroscience.stanford.edu/people/affiliated-faculty/grid>
- Stanford Health Care: <https://stanfordhealthcare.org/doctors/b/mahendra-bhati.html>

## **Research & Scholarship**

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### **CLINICAL TRIALS**

- Investigations of Amygdala Function Using Neurophysiological Recording and Stimulation, Recruiting
- Adaptive Design Study of NEST sTMS in Subjects With Major Depressive Disorder, Not Recruiting

## **Publications**

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### **PUBLICATIONS**

- **Comparative effectiveness of neuroablation and deep brain stimulation for treatment-resistant obsessive-compulsive disorder: a meta-analytic study** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*  
Kumar, K. K., Appelboom, G., Lamsam, L., Caplan, A. L., Williams, N. R., Bhati, M. T., Stein, S. C., Halpern, C. H.  
2019; 90 (4): 469–73

- **MR-Guided Focused Ultrasound Versus Radiofrequency Capsulotomy for Treatment-Refractory Obsessive-Compulsive Disorder: A Cost-Effectiveness Threshold Analysis** *FRONTIERS IN NEUROSCIENCE*  
Kumar, K. K., Bhati, M. T., Ravikumar, V. K., Ghanouni, P., Stein, S. C., Halpern, C. H.  
2019; 13
- **Adjunctive repetitive transcranial magnetic stimulation delivers superior quality of life for focal epilepsy compared to anti-epileptic drugs: A meta-analytic utility prediction study.** *Brain stimulation*  
Mahajan, U. V., Parker, J. J., Williams, N. R., Bhati, M. T., Ku, S., Grant, G., Fisher, R. S., Stein, S. C., Halpern, C. H.  
2019
- **Naturalistic Clinical Monitoring of rTMS-Induced Plasticity With TMS-EEG**  
Keller, C., Wu, W., Sarhadi, K., Zhang, Y., Kerwin, L., Bhati, M., Etkin, A.  
ELSEVIER SCIENCE INC.2018: S195
- **Deep Brain Stimulation for Alzheimer's Disease: Ethical Challenges for Clinical Research.** *Journal of Alzheimer's disease : JAD*  
Siegel, A. M., Barrett, M. S., Bhati, M. T.  
2017; 56 (2): 429-439
- **Deciphering deep brain stimulation for depression.** *The lancet. Psychiatry*  
Bhati, M. T., Halpern, C. H.  
2017
- **A naturalistic, multi-site study of repetitive transcranial magnetic stimulation therapy for depression.** *Journal of affective disorders*  
Taylor, S. F., Bhati, M. T., Dubin, M. J., Hawkins, J. M., Lisanby, S. H., Morales, O., Reti, I. M., Sampson, S., Short, E. B., Spino, C., Watcharotone, K., Wright, J.  
2016; 208: 284-90
- **A Commentary on Attitudes Towards Deep Brain Stimulation for Addiction.** *Journal of neurology & neuromedicine*  
Lee, K. E., Bhati, M. T., Halpern, C. H.  
2016; 1 (8): 1-3
- **Cognitive outcome after ventral capsule/ventral striatum stimulation for treatment-resistant major depression.** *Journal of neurology, neurosurgery, and psychiatry*  
Kubu, C. S., Brelje, T., Butters, M. A., Deckersbach, T., Malloy, P., Moberg, P., Tröster, A. I., Williamson, E., Baltuch, G. H., Bhati, M. T., Carpenter, L. L., Dougherty, D. D., Howland, et al  
2016
- **A Randomized Sham-Controlled Trial of Deep Brain Stimulation of the Ventral Capsule/Ventral Striatum for Chronic Treatment-Resistant Depression** *BIOLOGICAL PSYCHIATRY*  
Dougherty, D. D., Rezaei, A. R., Carpenter, L. L., Howland, R. H., Bhati, M. T., O'Reardon, J. P., Eskandar, E. N., Baltuch, G. H., Machado, A. D., Kondziolka, D., Cusin, C., Evans, K. C., Price, et al  
2015; 78 (4): 240-248
- **Efficacy and Safety of Low-field Synchronized Transcranial Magnetic Stimulation (sTMS) for Treatment of Major Depression** *BRAIN STIMULATION*  
Leuchter, A. F., Cook, I. A., Feifel, D., Goethe, J. W., Husain, M., Carpenter, L. L., Thase, M. E., Krystal, A. D., Philip, N. S., Bhati, M. T., Burke, W. J., Howland, R. H., Sheline, et al  
2015; 8 (4): 787-794
- **Defining Psychosis: The Evolution of DSM-5 Schizophrenia Spectrum Disorders** *CURRENT PSYCHIATRY REPORTS*  
Bhati, M. T.  
2013; 15 (11)
- **Effect of retrieval effort and switching demand on fMRI activation during semantic word generation in schizophrenia** *SCHIZOPHRENIA RESEARCH*  
Ragland, J. D., Moelter, S. T., Bhati, M. T., Valdez, J. N., Kohler, C. G., Siegel, S. J., Gur, R. C., Gur, R. E.  
2008; 99 (1-3): 312-323
- **Facial emotion recognition in schizophrenia: When and why does it go awry?** *SCHIZOPHRENIA RESEARCH*  
Turetsky, B. I., Kohler, C. G., Indersmitten, T., Bhati, M. T., Charbonnier, D., Gur, R. C.  
2007; 94 (1-3): 253-263
- **Clinical manifestations, diagnosis, and empirical treatments for catatonia.** *Psychiatry (Edmont (Pa. : Township))*  
Bhati, M. T., Datto, C. J., O'Reardon, J. P.

2007; 4 (3): 46-52

- **Catatonia and prediction of response to ECT** *Psychiatric Annals*  
Caroff, S. N., Ungvari, G. S., Bhati, M. T., Datto, C. J., O'Reardon, J. P.  
2007; 32 (1): 57-64
- **The brain, language, and schizophrenia.** *Current psychiatry reports*  
Bhati, M. T.  
2005; 7 (4): 297-303
- **What makes aripiprazole the 'different' antipsychotic.** *Current Psychiatry*  
Bhati, M. T.  
2005; 4 (7): 51-60