

Alumni Cell, Office of Technology and Professional Affairs, IITA, Prayagraj, India

Brief Biodata of the Speaker Dr. Manish Saggar
(IITA Alumnus, B.Tech. IT, Enrollment No. 2001130)

MANISH SAGGAR, PH.D.



EDUCATION

2005	B.S. (Information Tech.)	Indian Institute of Information Tech., Allahabad, India
2009	M.S. (Computer Science)	University of Texas at Austin, Austin TX USA
2011	Ph.D. (Computer Science)	University of Texas at Austin, Austin TX USA
2014	Postdoc (Psychiatry)	Stanford University, Stanford CA USA

APPOINTMENTS

03/17-	Assistant Professor, Psychiatry & Behavioral Sciences, Stanford University
05/13-	Faculty, d.school, Stanford University
05/15-02/17	Instructor, CIBSR, School of Medicine, Stanford University
10/14-04/15	Research Associate, CIBSR, School of Medicine, Stanford University
09/11-09/14	Postdoctoral Scholar, CIBSR, School of Medicine, Stanford University

PERSONAL STATEMENT

I am an Assistant Professor working in the area of Computational Neuropsychiatry at Stanford University and currently direct the Brain Dynamics Lab (<http://bdl.stanford.edu>). The overarching goal of my lab is to develop computational methods that could allow for anchoring psychiatric diagnosis into biological features (e.g., neural circuits, spatiotemporal neurodynamics, etc.). Our lab has been currently funded through an NIH Director's New Innovator Award (DP2; 2018-2023) and through a faculty scholar award from the Stanford's Maternal and Child Health Research Institute (MCHRI; 2020-2025). I have previously received a career development award (K99/R00; 2015-2020) from the NIMH and BBRF's NARSAD Young Investigator Award (2016-2018). My work has been recognized by several local (e.g., Department's Innovator Award 2016 and Excellence in Advancing Science 2019), national and international awards (e.g., Institute for Scientific Interchange, Italy, Fellow 2019).

Our lab excels in developing data-driven computational methods to generate clinically and behaviorally relevant insights from high dimensional biological data (e.g., neuroimaging data) without necessarily averaging the data at the outset. For example, we have recently developed methods to mine fluctuations in whole-brain activations maps at not only an individual participant level (n=1) but also at the highest spatiotemporal resolution possible with functional Magnetic Resonance Imaging devices (Saggar et al. 2018, Nature Comm.). We also actively pursue developing novel technologies for experimental design and data collection. For example, we have recently performed one of the first ever 3-person fMRI hyperscanning paradigm, where 3 MR scanners at Stanford were linked with each other and the participants played a game of PictionaryTM (Xie et al. 2020). Similarly, I have developed novel paradigms and technology (e.g., MR-safe table for drawing) to study (1) neural correlates of creativity and its enhancement in healthy adults (Saggar et al. 2015, 2016); (2) neural correlates of naturalistic non-verbal communication (Saggar et al. 2014); and (3) how brain development affects creativity in young children (Saggar et al., 2019).

GRANTS & AWARDS

2020-2025	Tashia and John Morgridge Endowed Faculty Scholar in Pediatric Translational Medicine, Stanford
2019-2022	International Fellow, Institute for Scientific Interchange Foundation, Italy
2019	Annual Chairman's Award for Advancing Science, Psychiatry, Stanford University
2018-2023	NIH Director's New Innovator Award (DP2)
2017-2020	Hasso Plattner Design Thinking Research Program (HPDTRP) Grant
2015-2020	NIH Career Development Award (K99/R00) from the NIMH
2016-2018	NARSAD Young Investigator Award from the Brain & Behavior Foundation
2016-2017	Innovator Award, Psychiatry & Behavioral Sciences
2013-2014	Child Health Research Institute (CHRI) Postdoctoral grant
2012	Seed-grant award from Stanford's Center for Neuroimaging (CNI)
2006-2011	Francisco J. Varela Memorial Grant Award from the Mind and Life Institute

SYNERGISTIC ACTIVITIES

- Editorial Board Member for the journal Scientific Reports (Nature Publishing Journal), NeuroImage (Elsevier)
- Executive Board Member for the Society of Neuroscience of Creativity (2017-present)
- Member on the departmental committee on Reimagining Mental Health Care (2017)
- Lecturer for the Clinical Neuroscience Internship Experience (CNI-X) for high-school students (2015-present)