

# Stanford

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## Manjari Narayan

Postdoctoral Research Fellow, Psychiatry

### Bio

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#### BIO

Manjari Narayan is a postdoctoral research scholar at the Etkinlab. Her current research interests combine high dimensional statistics, graphical models, network science & statistical causal inference methods to analyze interventional neuroimaging experiments as well as precision psychiatry. She received a Ph.D in Electrical Engineering from Rice University in 2016 under the supervision of Dr. Genevera Allen and a B.S in Electrical Engineering from UIUC in 2007. Her dissertation work has been recognized by numerous student paper awards including the 2016 ENAR Distinguished Student Paper Award from the International Biometrics Society and the 2013 best paper travel award in Pattern Recognition in Neuroimaging.

#### HONORS AND AWARDS

- Distinguished Student Paper Award, International Biometrics Society, Eastern North American Region (ENAR) (2016)
- R. L. Anderson Student Poster Award, Southern Regional Council on Statistics (2014)
- Best Paper Travel Award, Pattern Recognition in Neuroimaging (2013)
- Best Poster Award, Conference of Texas Statisticians (2013)
- Google Anita Borg Memorial Scholarship (Women Techmakers), Google (2009)

#### LINKS

- Website: <https://research.manjarnarayan.org/>

### Publications

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#### PUBLICATIONS

- **Individual Patterns of Abnormality in Resting-State Functional Connectivity Reveal Two Data-Driven PTSD Subgroups**  
Maron-Katz, A., Narayan, M., Zamler, S., Longwell, P., Shpigel, E., De Los Angeles, C., Newman, J., Abu Amara, D., Marmar, C., Etkin, A.  
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- **Cognitive Function Networks Vary With Quality of Life**  
Zamler, S., Narayan, M., Marmar, C., Etkin, A.  
ELSEVIER SCIENCE INC.2019: S120
- **Using Tolerance Intervals to Capture Heterogeneity in Neurobiological Abnormalities Within PTSD Patients**  
Maron-Katz, A., Narayan, M., Shpigel, E., Longwell, P., De Los Angeles, C., Marmar, C., Etkin, A.  
ELSEVIER SCIENCE INC.2018: S139
- **Test-retest reliability of transcranial magnetic stimulation EEG evoked potentials** *Brain Stimulation*  
Kerwin, L. J., Keller, C., Wu, W., Narayan, M., Etkin, A.  
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- **Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease** *ALZHEIMERS & DEMENTIA*  
Allen, G. I., Amoroso, N., Anghel, C., Balagurusamy, V., Bare, C. J., Beaton, D., Bellotti, R., Bennett, D. A., Boehme, K. L., Boutros, P. C., Caberlotto, L., Caloian, C., Campbell, et al  
2016; 12 (6): 645-653
- **Mixed Effects Models for Resampled Network Statistics Improves Statistical Power to Find Differences in Multi-Subject Functional Connectivity** *FRONTIERS IN NEUROSCIENCE*  
Narayan, M., Allen, G. I.  
2016; 10
- **Resting state functional MRI reveals abnormal network connectivity in neurofibromatosis 1** *HUMAN BRAIN MAPPING*  
Tomson, S. N., Schreiner, M. J., Narayan, M., Rosser, T., Enrique, N., Silva, A. J., Allen, G. I., Bookheimer, S. Y., Bearden, C. E.  
2015; 36 (11): 4566-4581
- **Two Sample Inference for Populations of Graphical Models with Applications to Functional Connectivity**  
Narayan, M., Allen, G. I.  
<https://arxiv.org/abs/1502.03853>.  
2015
- **Anisotropic nonlocal means denoising** *APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS*  
Maleki, A., Narayan, M., Baraniuk, R. G.  
2013; 35 (3): 452-482
- **Neural Networks of Colored Sequence Synesthesia** *JOURNAL OF NEUROSCIENCE*  
Tomson, S. N., Narayan, M., Allen, G. I., Eagleman, D. M.  
2013; 33 (35): 14098-14106
- **Suboptimality of nonlocal means for images with sharp edges** *APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS*  
Maleki, A., Narayan, M., Baraniuk, R. G.  
2012; 33 (3): 370-387