

Stanford



Anup Das

Postdoctoral Research Fellow, Psychiatry

Bio

HONORS AND AWARDS

- Electrical and Computer Engineering Departmental Fellowship, University of California San Diego (2013-14)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California San Diego , Electrical Engineering (Signal and Image Processing) (2018)
- Master of Science, University of California San Diego , Electrical Engineering (Signal and Image Processing) (2015)
- Bachelor of Technology, Indian Institute of Technology Guwahati , Electronics and Communication Engineering (2013)

STANFORD ADVISORS

- Vinod Menon, Postdoctoral Faculty Sponsor

LINKS

- My Website: <http://web.stanford.edu/~aldas/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Development and implementation of advanced computational methods to investigate human brain functional organization and development

Publications

PUBLICATIONS

- **Spatiotemporal Integrity and Spontaneous Nonlinear Dynamic Properties of the Saliency Network Revealed by Human Intracranial Electrophysiology: A Multicohort Replication.** *Cerebral cortex (New York, N.Y. : 1991)*
Das, A., Menon, V.
2020
- **Heterogeneity of Preictal Dynamics in Human Epileptic Seizures** *IEEE ACCESS*
Das, A., Cash, S. S., Sejnowski, T. J.
2020; 8: 52738–48
- **Deterministic and Bayesian Sparse Signal Processing Algorithms for Coherent Multipath Directions-of-Arrival (DOAs) Estimation** *IEEE JOURNAL OF OCEANIC ENGINEERING*
Das, A.
2019; 44 (4): 1150–64
- **Characterizing Brain Connectivity from Human Electrographic Recordings with Unobserved Inputs during Epileptic Seizures.** *Neural computation*

Das, A., Sexton, D., Lainscsek, C., Cash, S. S., Sejnowski, T. J.

2019; 1–56

- **Comparison of Two Hyperparameter-Free Sparse Signal Processing Methods for Direction-of-Arrival Tracking in the HF97 Ocean Acoustic Experiment** *IEEE JOURNAL OF OCEANIC ENGINEERING*

Das, A., Zachariah, D., Stoica, P.

2018; 43 (3): 725–34

- **Narrowband and Wideband Off-Grid Direction-of-Arrival Estimation via Sparse Bayesian Learning** *IEEE JOURNAL OF OCEANIC ENGINEERING*

Das, A., Sejnowski, T. J.

2018; 43 (1): 108–18

- **Differential Covariance: A New Class of Methods to Estimate Sparse Connectivity from Neural Recordings** *NEURAL COMPUTATION*

Lin, T. W., Das, A., Krishnan, G. P., Bazhenov, M., Sejnowski, T. J.

2017; 29 (10): 2581–2632

- **A Bayesian Sparse-Plus-Low-Rank Matrix Decomposition Method for Direction-of-Arrival Tracking** *IEEE SENSORS JOURNAL*

Das, A.

2017; 17 (15): 4894–4902

- **Peer-Reviewed Technical Communication-Coherent Multipath Direction-of-Arrival Resolution Using Compressed Sensing** *IEEE JOURNAL OF OCEANIC ENGINEERING*

Das, A., Hodgkiss, W. S., Gerstoft, P.

2017; 42 (2): 494–505

- **Interpretation of the Precision Matrix and Its Application in Estimating Sparse Brain Connectivity during Sleep Spindles from Human Electroencephalography Recordings** *NEURAL COMPUTATION*

Das, A., Sampson, A. L., Lainscsek, C., Muller, L., Lin, W., Doyle, J. C., Cash, S. S., Halgren, E., Sejnowski, T. J.

2017; 29 (3): 603–642

- **Theoretical and Experimental Comparison of Off-Grid Sparse Bayesian Direction-of-Arrival Estimation Algorithms** *IEEE ACCESS*

Das, A.

2017; 5: 18075–87