Soudeep Deb

CURRENT POSITION	Assistant Professor Decision Sciences Area Indian Institute of Management, Bangalore, India.	Webpage: soudeepd.github.io Phone: +1 (312)709-0673 E-mail: soudeep.deb@gmail.com	
Citizenship	India		
Research Interests	Time series data, Spatial statistics, Spatio-temporal modeling, Sports analytics, and Application of time series and spatial statistics in finance and other disciplines.		
Experience	NBC Universal Media, LLC., New York, NY, USA.	Sep 2018 - Feb 2020	
	• Senior Lead Data Scientist, Decision Sciences Division.		
Education	University of Chicago , Chicago, IL, USA.		
	Ph.D., Statistics	Aug 2018	
	 Thesis: Irregular spaced random field, Spatio-temporal data and Clustering of time series Advisor: Dr. Wei Biao Wu Other committee members: Dr. Ruey S. Tsay and Dr. Michael L. Stein 		
	Indian Statistical Institute, Kolkata, WB, India.		
	Master of Statistics (M. Stat.)	May 2013	
	 First Division with Distinction Specialization: Mathematical Statistics and Probability Dissertation: Association analysis for identifying rare genetic variants Advisor: Dr. Saurabh Ghosh 		
	Bachelor of Statistics (B. Stat.)	May 2011	
	• First Division with Distinction		
Publications	1. Deb, S. , Tsay, R. S. (2019+). Spatio-temporal Models with Space-time Interaction and Their Applications to Air Pollution Data. To appear, Statistica Sinica, Preprint available at Statistica Sinica website.		
	 Deb, S. (2019). VAR Model Based Clustering Met Journal of Mathematical Sciences, 237(6), 754-765. 	thod for Multivariate Time Series Data.	
	 Prickett, K.C., Guiterrez, C., Deb, S. (2019). Family Firearm Ownership and Firearm-related Mortality among Young Children: 1976-2016. Pediatrics, 143(2), e20181171. 		
	 Chazin, H., Deb, S., Falk, J., Srinivasan, A. (2019). New Statistical Approaches to Intra- individual Isotopic Analysis and Modelling of Birth Seasonality in Studies of Herd Animals. Archaeometry, 61(2), 478-493. 		
	 Deb, S. (2018). Irregular Spaced Data, Spatio-temporal Modeling and Clustering of Time Series. The University of Chicago. 		
	 Deb, S., Pourahmadi, M., Wu, W. B. (2017). An Asymptotic Theory for Spectral Analysis of Random Fields. Electronic Journal of Statistics, Vol. 11, No. 2, p. 4297-4322. 		
	 Deb, S., Dey, D. (2017). Spatial modeling of shot conversion in soccer to single out goalscoring ability. Journal of Sports Analytics, (Preprint), 1-17. 		
	 Zechner, C., Deb, S., Koeppl, H. (2013). Marginal Dynamics of Stochastic Biochemical Networks in Random Environments. In Control Conference (ECC), 2013 European, p. 4269- 4274, IEEE. 		

9. Ghosh, S., **Deb**, S. (2013). A Clustering Approach for Mapping Rare Variants Based in Mutual Association. Human Heredity, Vol. 76, No. 2, pp. 98-98.

Ongoing research	1. El Machkouri, M, Deb , S , Wu, W.B. Simultaneous inference for high-dimensional random field.			
	2. Deb, S., Wu, W. B. Clustering of Time Series Data using Spectral Density Estimates.			
	3. Deb, S., Deb, S. A New Approach to Forecast Dengue Cases based on Climate and Terrain.			
	 Badrinathan, S., Deb, S. Representation in Indian Politics : People's Priorities and Their Effect on Legislative Activity. 			
Honors	University of Chicago:			
	 International House Ralph W. Nicholas Fellowship Award Graduate Council Travel Fund Award Senior Consultant, Department of Statistics Runner-up for Department of Statistics Consulting Award Nominated for Best Teaching Assistant in Physical Sciences Division 	2017-18 2017 2016-17 2016 Winter 2014		
	Other Awards:			
	 Kishore Vaigyanik Protsahan Yojana scholarship, Indian Institute of Science Selected for International Mathematical Olympiad Training Camp, India 	2007 to 2013 2007 & 2008		
Teaching Experience	Instructor , at University of Chicago:			
	 Introductory Statistics, Chicago Academic Achievement Program. Sum Statistical Models and Methods I 	mers of 2015, 2017 Winter 2015		
	Teaching Assistant, at University of Chicago:• Statistical Theory and Methods I• Bayesian Analysis and Principles of Statistics• Statistical Theory and Methods II• Applied Linear Statistical Methods	of 2014, 2016, 2017 Spring 2017 rings of 2014, 2016 Autumn 2015		
Other Experience	The Alan Turing Institute, London, United Kingdom	Dec 2017		
	Position: Delegate for the Data Study Group.Project: Geospatial time-series analyses to predict demand for a global satellite communications network.			
	Instituto de Pesquisa Ambiental do Amazônia, Brasília, Brazil	Jun - Aug 2016		
	 Position: Summer fellow. Project: Hydropower Construction and Deforestation in the Tapajós River Basin: Linking Forest Cover to Changes in Water Balance. 			
	Eidgenossische Technische Hochschule (ETH), Zurich, Switzerland	May - Jul 2013		
	Position: Summer research intern.Project: Moment-Closure Approximations for Mass-action Models in Chemical Kinetics.			
	 Eidgenossische Technische Hochschule (ETH), Zurich, Switzerland Position: Summer research intern. Project: Marginal Dynamics of Stochastic Biochemical Networks in Bandom 1 	Jun - Jul 2012		
	Ministry of Statistics and Programma Implementation Cost of India	Max 2012		
	 Position: Team member Project: Forecasting of Foreign-tourist Arrivals in India. 	May 2012		
	Johns Hopkins University, Baltimore, United States of America	May - Jul 2011		
	 Position: Summer research intern Project: Estimating Genetic Relationship between Random Individuals from Data. 	Genome Sequence		

Seminars	1. New Methods of Clustering Time-series Data and its Applications; Colloquium, Indian Statistical Institute, Bangalore, India. Nov 2019	
	2. Spatio-temporal Models with Space-time Interaction and Their Applications to Air Pollution Data. Statistics colloquium, Northern Illinois University, Dekalb, USA. Dec 2017	
	3. VAR Model Based Clustering Method for Multivariate Time Series Data. XXXIV. International Seminar on Stability Problems for Stochastic Models, Debrecen, Hungary. Aug 2017	
	4. Spatio-temporal Models with Space-time Interaction and Their Applications to Air Pollution Data. NBER/NSF Time Series Conference, New York, USA. Sep 2016	
	 Hydropower Construction and Deforestation in the Tapajós River Basin: Linking Forest Cover to Changes in Water Balance. Symposium on deforestation, Ministry of Environment, Brasília, Brazil. 	
	6. Estimating Genetic Relationship between Random Individuals from Genome Sequence Data. Young Statisticians Conference, Melbourne, Australia. Feb 2013	
	7. Estimating Genetic Relationship between Random Individuals from Genome Sequence Data. Conference on Contemporary Issues and Applications in Statistics, Kolkata, India. Jan 2012	
	 Estimating Genetic Relationship between Random Individuals from Genome Sequence Data. D. Basu Memorial Award Lecture Series, Indian Statistical Institute, Kolkata, India. Sep 2011 	
Peer review Services	 W Worked as a Reviewer for the following journals: Electronic Journal of Statistics Statistics and Probability Letters Linear Algebra and its Applications Journal of Sports Analytics 	
Other INFORMATION	 Technical strength: Proficient: R, MATLAB, LATEX, Microsoft Office Working knowledge: Python, SQL, C. 	
	Languages:Fluent in reading, writing, speaking: English, Bengali, Hindi.Basic reading and speaking: Portuguese.	