Saran Ishika Maiti

Assistant Professor Grade II

PRESENT POSITIONS & AFFILIATION

Assistant Professor
Department of Statistics
Institute of Science
Visva-Bharati University
Santiniketan, India

RESEARCH INTERESTS

- Applied Multivariate Analysis
- Analysis of Covariance and Correlation Matrix
- Time Series Analysis
- Psychometric Data Analysis

EDUCATIONAL QUALIFICATIONS

Ph.D. (Statistics) <u>Dissertation Title</u> Some Contributions to the Statistical Problems related to Linearly Structured Covariance and Correlation Matrices	**2014**	University of Kalyani , West Bengal, India
M.Sc. (Statistics) <u>Special Papers</u> Advanced Multivariate Analysis, Applied Multivariate Analysis, Time Series Analysis	**2004**	University of Kalyani, West Bengal, India
B. SC. (Statistics as Major) Physics and Mathematics (Subsidiary)	**2002**	University of Kalyani, West Bengal, India

OTHER ACADEMIC EXCELLENCE

Visiting Research Scientist	**August, 2014 -- June, 2015**	Department of Mathematical Sciences Purdue School of Science Indiana University-Purdue University (IUPUI), Indiana, USA

HONORS AND AWARDS

- UGC-CSIR NET (LS) (2004)
- SLET(WBCSC) (2004)
- Faculty Topper Student Award in Master of Science (2004)
- University Topper Student Award in Bachelor of Science (2002)
- Ranked 20th in the merit list of West Bengal Board of Secondary Education Examination out of 6,00,000 students (1997)

LIST OF PUBLICATIONS

Journal Articles (Published)

- Sarkar, J. & Maiti, S.I.(2017), Symmetric Random Walks on Regular Tetrahedra, Octahedra, and Hexahedra, *Calcutta Statistical Association Bulletine*, Vol.69, Issue 1, pp.110-128.
- Maiti, S.I. (2017), Large Sample test criteria on Toeplitz covariance structure; *Communications in Statistics-Simulation and Computation,* Vol 45, Issue 1, pp.1-15.
- Maiti, S.I. (2017),Tau proportionate form of congeneric covariance structure, *International Journal of Probability and Statistics,* Vol.5, Issue 5, pp.1-12.
- Maiti, S.I. & Maiti, S.S.(2013), Maximum likelihood estimation of the linearly structured correlation matrix by a Jacobi-type iterative scheme(2013), *Journal of Statistical Computation and Simulation*, Vol 83, Issue 5, pp.896-921.
- Maiti, S.I. (2010), Construction, properties and statistical applications of positive definite intraclass matrix, *Linear and Multilinear Algebra,* Vol 59(8), pp.891-904.
- Maiti, S.I. (2010), On the possibility of extraneous maximum likelihood estimate of the parameter involved in AR(1) , *Pakistan Journal of Statistics*, Vol 26, Issue 4, pp.629-635.
- Maiti, S.I. (2009) Reduction of bias and mean square error in estimating AR(1) model parameter based on Quenouille-type and optimum overlapping series splitting estimators (2009), *Journal of Statistical Research*, Vol.43, Issue 1, pp.21-39.

Under Revision

  Symmetric Random Walks on Paths and Cycles (with J. Sarkar)(2015) ,Mathematics Magazine, American Mathematical Association

Working papers
  o Symmetric simple random walk on a cube (with Jyotirmoy Sarkar)
  o An estimation procedure on shifted Lindley distribution (with Arindom Chakraborty)

Papers Published in Conference proceeding
- Maiti, S.I.& Mondal, A.I. (2013), X-11 Seasonal Forecasting Using Base SAS, 3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence Conference Proceeding, April 13 - 14, 2013, IIM Ahmedabad, India.
- Maiti, S.I. (2012),On Estimating 1st Order Autoregressive Process Parameter by Proportional Series Splitting OLS Estimators , Conference Proceeding in HICAMS International Conference 2012, pp. 623 – 630.

Workshop, Presentations, Conference Papers

- Delivered a seminar lecture as <u>Colloquium speaker</u> on "Staircase equal-row-sum-structure of covariance matrix – an observational model based study" in Department of Public Health, University of Louisville, Kentucky, USA. (2016)
- Delivered a seminar lecture as <u>University Colloquium speaker</u> on ''Tau proportionate form of Congeneric test in Test Reliability Theory" in Department of Mathematical Sciences, Indiana University-Purdue University at Indianapolis (IUPUI), USA(2016).
- Delivered a lecture as an <u>invited speaker</u> on "Some introspections of Equal-row-sum covariance structure" in 2015 International Indian Statistical Association Conference held in Pune, India(2015)
- Delivered a lecture as <u>an contributed speaker</u> on ""A Symmetric Simple Random walk on a Finite Linear Chain or on a Finite Closed Loop" in Ninth International Triennial Calcutta Symposium hosted jointly by Calcutta Statistical Association and Department of Statistics, University of Calcutta (2015)
- Delivered a seminar lecture entitled "A Symmetric Simple Random walk on a Finite Linear Chain or on a Finite Closed Loop" as University <u>Colloquium Speaker</u> in Department of Mathematical Sciences, Indiana University-Purdue University Indinapolis, USA(2015).
- Delivered "Inferential Methods on the testing of Toeplitz Covariance Structure" as a <u>contributed speaker</u> in National Seminar on Research Scholar Meet, organized by Department of Statistics, University of Calcutta, India(2013).
- <u>Invited Speaker</u> in Summer School on Basic Statistics and Probabilities, Indian Institute of Technology, Guwahati (2013).
- Delivered a lecture as <u>contributed speaker</u> in An introspection to Equi-Covariable Composite Class, Eighth International Triennial Calcutta Symposium on probability and Statistics, India (2012).
- On Estimating AR(1) parameter by proportional series splitting estimator in Heber International Conference on Applications of Mathematics and Statistics, Bishop Heber College, University of Trichy, India (2012).
- Large Sample Testing of Toeplitz Covariance Structure, Statistics In Concepts and Methods for Modern World" organized by Institute of Applied Statistics, Sri Lanka jointly with School of Mathematics and Statistics, University of Sydney, Australia (2012)
- Participated in <u>Winter School</u> on "Teaching of Statistics at undergraduate level" organised by Applied Statistics unit of Indian Statistical Institute, Kolkata (2007).

Academic Visits

Visited Department of Psychology, University of Louisville, Kentucky, U.S.A. on March'2016.

Other Academic Activities

- Reviewer in Journal of Applied Statistics, Communications in Statistics-Simulation and Computation, Psychological Methods
- Served as External Examiner in Ph.D qualifier examination (written and viva) in Department of Mathematical Sciences, IUPUI, USA.

TEACHING EXPERIENCE: 11 years

(INDIA)

Designation & Affiliation	Course Taught		Period
Assistant Professor (Grade III) Department of Statistics, Visva-Bharati University, Santiniketan,India	**Post Graduate** ✓ Linear Algebra ✓ Stochastic Processes ✓ Time Series Analysis ✓ Applied Multivariate Analysis	**Undergraduate** ✓ Mathematical Probability ✓ Multivariate Statistics ✓ Sampling distribution	**July'2016- till date**
Assistant Professor (Grade II) Department of Statistics, Visva-Bharati University, Santiniketan,India	Same as above		**July'2009-July'2014**
Lecturer & Head of the Department of Statistics Bethune College, Kolkata Under West Bengal Higher Education Service	✓ Mathematical Probability ✓ Statistical Tools for Biology ✓ Descriptive Statistics		**July'2005-June'2009**

TEACHING EXPERIENCE: 2 years

(United States of America)

Visiting Research Scientist Department of Mathematical Sciences Purdue School of Sciences Indiana University Purdue University, Indiana, USA	STAT350: Introduction for Statistics STAT301: Elementary methods of Statistics	Fall Semester 2014 & Spring Semester 2015 (August 2014-May 2015)
Visiting Assistant Professor Department of Mathematical Sciences Purdue School of Sciences Indiana University Purdue University, Indiana, USA	STAT512: Theory of Regression STAT531: Categorical Data Analysis	Fall Semester 2015 & Spring Semester 2016 (August 2015-May 2016)

REFERENCES

1. Prof. Jyotirmoy Sarkar
   Department of Mathematical Sciences
   Purdue School of Sciences, IUPUI
   Indianapolis, USA

2. Prof. Kashinath Chatterjee
   Department of Statistics
   Visva-Bharati University, Santiniketan
   India

3. Prof. Nimai Kumar Chandra
   Department of Statistics
   University of Kalyani, Kalyani
   India

PERSONAL

After the details of my professional profile if you want a sneak peek into my personal interests, here are some glimpses on the non-linear myself.

- o I have penchant on Indian classical (Hindustani) music.
- o I am fond of new culture, heritage, and philosophy among others.
- o I am a voracious reader. I want to grab all the books on English and Bengali literature as many as I can. As a catharsis of my reading habit I grow a knack of creative writing as well.
- o I love Nature and believe that it is the best sauce which pours us with eternal peace. So hiking amidst the shadowy jungle path or trailing along a steep, mossy, pebbled hill way are always my favourite.
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