

# Curriculum Vitae

Tirthankar Ghosh



## Position Currently Held and Contact Details:

Postdoctoral Associate Researcher (Since October, 2013)  
Meteorology Program  
Dept. of Earth, Ocean & Atmospheric Sc.  
Florida State University  
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Assistant Professor (Since May, 2008) (**presently on leave**)  
Department of Statistics,  
Siksha Bhavana (Institute of Science)  
Visva-Bharati (A Central University)  
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## Past Experience:

Assistant Professor (From April, 2005 to May, 2008)  
Department of Statistics,  
Midnapore College,  
Vidyasagar University  
Midnapore West Bengal, India

## EDUCATION:

B.Sc. (Honours) Statistics: **2001**, University of Kalyani, Kalyani, WB-741235, India

M.Sc. in Statistics: **2003**, University of Kalyani, Kalyani, WB-741235, India

Ph.D. (Statistics): **2012**, University of Kalyani, Kalyani, WB-741235, India

## Awards

□□ Junior Research fellowship on the basis of of UGC-CSIR National Eligibility Test (NET) in Mathematical Sciences in June, 2003.

- Qualified Graduate Aptitude Test in Engineering (GATE) in 2003. All India Rank 214, Subject-Engineering Sciences.

□□ S.B. Dasgupta Memorial Endowment Award for Standing First in First Class in M.Sc (Statistics) Examination, 2003 at University of Kalyani, Kalyani, India.

□□ Scholarship from University at B.Sc (Honours) level.

## RESEARCH INTERESTS:-

□□ Time Series Analysis

□□ Data Analysis

□□ Reliability Engineering

□□ Applications of Statistics in Weather & Climate Research

## Technical Profile

### Specialized Courses

□□ **Courses Studied**– Advanced Time Series Analysis, Multivariate Analysis, Advanced design of Experiments.

□□ **Courses Taught (UG & PG):** Time series analysis, Mathematical Probability, Economic Statistics, Sample Survey, Multivariate Analysis, Reliability Theory.

## LIST of Publications:

### PUBLISHED/ACCEPTED IN JOURNALS

**1. Roy Dilip, & Ghosh Tirthankar:** “A new discretization approach with application in reliability estimation”, *IEEE Transactions on Reliability*, Vol. 58, No.3, Pages 456-461, (2009). IEEE, Impact Factor = 1.288 ISSN-0018-9529.

**2. Ghosh Tirthankar & Roy Dilip:** “Statistical tolerancing through discretization of variables”, *International Journal of Quality and Reliability Management (IJQRM)*, Vol. 28, No. 2, pp.220 – 232, (2011), ISSN-0265-671X

**3. Ghosh Tirthankar, Roy Dilip & Chandra Nimai Kumar:** “Discretization of random variables with Applications”, *Calcutta Statistical Association Bulletin*, Vol. 63, Nos. 249-252, pp.323-337, (2011), CSA, ISSN-0008-0683

4. Roy Nayan, Laskar Rajibul Arif, Sk Ismail, Kumari Deepa, **Ghosh Tirthankar** and Begum Naznin Ara: “A detailed study on the antioxidant activity of the stem bark of *Dalbergia sissoo Roxb.* an Indian medicinal plant”, *Food Chemistry*, Vol 126, No. 3 Pages: 1115-1121. (Elsevier) (2011), Impact Factor: 3.655

5. Chandra Nimai Kumar, Roy Dilip & **Ghosh Tirthankar**: “A Generalized Poisson distribution”, *Communications in Statistics (Theory & Methods)*, 42, pp: 2786-2797. DOI: 10.1080/03610926.2011.620207, Impact Factor=0.27, 2013, (Taylor Francis), USA. ISSN-0361-0926 (Print), 1532-415X (Online)

6. **Ghosh Tirthankar**, Roy Dilip and Nimai Kumar Chandra: “Reliability approximation through the discretization of random variables using Reversed Hazard Rate Function”, *International Journal of Mathematical Science and Engineering*, World Academy of Science Engineering and Technology, Vol. 7, No. 4, pp: 909-913, 2013. ISSN- 1307-6892

#### UNDER PREPARATION/REVISION/COMMUNICATION

7. **Ghosh Tirthankar**, Roy Dilip & Chandra Nimai Kumar: “Reliability Approximation through the discretization of Loglogistic distribution”, *IEEE Transactions on Reliability*.) [This paper was accepted in the *IEEE International Conference on Industrial Engineering and Engineering Management*, held during 7 to 10 December, 2010, at Macau, China. But it was not presented at the conference due to financial constraints.]

8. **Ghosh Tirthankar** & Roy Dilip: “Discretization of the exponential distribution with applications”, *International Journal of Reliability Quality and Safety Engineering (IJRQSE)*.

#### PAPERS IN CONFERENCES

9. **Ghosh Tirthankar** & Roy Dilip, “A characterization of the exponential distribution based residual life consideration”, *National Seminar on Statistics and its Applications*”, 19-20 January, 2007, Department of Mathematics, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab, India.

10. **Ghosh Tirthankar** & Roy Dilip, “Discretization of random variables and reliability estimation”, *International conference on Achieving excellence in Business Organizations: Issues and Challenges*, 29-31 January, 2009, Center for Management Studies, The University of Burdwan, Burdwan, India.

11. **Ghosh Tirthankar**, Roy Dilip & Chandra Nimai Kumar: “Discretization of random variables with applications”, *Seventh International Triennial Calcutta Symposium on Probability and Statistics*, 28-31 December, 2009, Department of Statistics, University Calcutta, Kolkata, India.
12. **Ghosh Tirthankar**, Dilip Roy & Chandra Nimai Kumar: ‘Application of Discretization of Random Variables in Engineering Design by Reliability’, in *XXXI Annual Convention of Indian Society of Probability and Statistics (ISPS) and International Conference on Statistics, Probability and Related Areas* December 19-22, 2011 held at Cochin University of Science and Technology, Kerala, India.
13. **Ghosh Tirthankar**: ‘Application of Statistics in Engineering Design’ in the *National Conference on “Applications of Statistics in Life Science and Engineering”* December 09-10, 2011 held at EES, PSB, Visva-Bharati, WB, India.
14. **Ghosh Tirthankar**: ‘Application of Reversed Hazard Rate Function in reliability approximation’, in the 6<sup>th</sup> International Conference of Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), December, 21-23, 2012 held at Kolkata, India.
15. **Ghosh Tirthankar**: ‘A Comparative study of discretizing methods for approximating system reliabilities’, in Young Statisticians’ Meet-An International Conference, December, 24-25, 2012, held at Department of Statistics, The University of Burdwan, India.
16. **Ghosh Tirthankar**: ‘A Comparative study on reliability approximations of complex mechanical items’, in Symposium on Recent Trends and Emerging Applications of Mathematical Sciences, during 16-17 May, 2013, held at Department of Mathematics, National Institute of Technology Rourkela, Odisha.
17. **Ghosh Tirthankar** and Krishnamurti T.N.: Status of Research on Multimodel Superensemble Forecast for Hurricane Intensity, in Annual Meeting of Hurricane Forecast Improvement Project of NOAA, USA held in Miami, USA during 18-20 November, 2014.

### COURSES PARTICIPATED FOR PROFESSIONAL DEVELOPMENT

1. 68<sup>th</sup> Orientation programme (for College & University teachers) held at Academic Staff College, The University of Burdwan, Burdwan, India, 13 December, 2008-09 January, 2009. (This programme was sponsored by the University Grants Commission, India)
2. 2<sup>nd</sup> Refresher Course in Information Communication Technology (ICT) (MD) held at at Academic Staff College, The University of Burdwan, Burdwan, India, 4-24, March 2011. (This programme was sponsored by the University Grants Commission, India)

3. Refresher Course in Statistics held at Department of Statistics, University of Calcutta, Kolkata, India, 2-21 July, 2012. (This programme was sponsored by the University Grants Commission, through ASC, CU).
4. Participated in SERB Summer School on 'Weather and Climate in Tropics' at IIT Delhi held during 3-26 June, 2013 sponsored by DST Govt. of India.

### **COMPUTER SKILLS**

1. Programming in FORTRAN 77, R, Shell scripting
2. Software: SPSS, MINITAB
3. Latex, Tex
4. Platform: Windows, Unix

### **MEMBERSHIPS OF PROFESSIONAL BODIES**

1. Life Member, Indian Statistical Institute Council, Kolkata,
2. Calcutta Statistical Association, Kolkata,
3. Indian Society of Statistics, Computer and Applications, New Delhi.

### **REVIEWER**

International Journal of Quality and Reliability Management, Emerald.  
Microelectronics Reliability, Elsevier.

### **CO-CURRICULAR ACTIVITIES**

Served as Hostel Warden from November, 2008 to May 2013.