CURRICULAM VITEA

Name & address: SANTANU DUTTA

Associate Professor,
Department of Mathematical Sciences,
Tezpur University,
Napaam, Tezpur
784028 (ASSAM)

Phone number: 6000101097
Email ID: tezpur1976@gmail.com

Specialisation: M. Sc., Ph. D. in Statistics.

1. Academic profile:

Name of Course/Exam.	Board/University	Year of Passing	Percentage/CGPA
Ph.D.	Tezpur University	2011	Degree awarded
GATE	MHRD	2001	97.69 percentile
NET	U.G.C.	2001	Awarded JRF
M. Sc.	Delhi University	2001	80.7 %
B. Sc.	Gauhati University (Cotton college)	1998	87.2 %
Higher Secondary (10+2)	Assam H.S.E.C	1995	73.8%
Matriculation	SEBA	1993	79.3%

2. Areas of research: Kernel density estimation, Nonparametric distribution function estimation, Smooth bootstrap, Estimation of quintiles and their applications   in Finance.

3. Ph.D. Supervision:

(a) Number of students already awarded with Ph.D.: **1**

(b) Number of Students presently working for Ph.D.: **1**

4. **No. of publications: 18** (Separate Sheet attached)

   a) Refereed Journals (National/ International) : **17**

      (i) National: 4

      (ii) International: 13

   b) Non-Refereed Journals (National/ International): **1**

      (i) National:

      (ii) International: 1

   c) Post Ph.D. publications : **13**

   d) Citations of Publications : 47 (Google scholar)

5. **Professional experiences:**

   a) Permanent Positions.

Organization	Positions Held	Type of Work	Period
Tezpur University	Lecturer	Teaching	16/11/2001 to 16/11/2007
	Assistant Professor (Senior Scale)	Teaching and Research	16/11/2007 to 28/07/2011
	Associate Professor	Teaching and Research	28/07/2011 Till date

   b) Term Positions held

Organization	Positions Held	Type of Work	Period
Tezpur University	Warden (KMH & SCVRMH hostels)	Hostel administration	24/09/2012 To 30/04/2015
	Program Coordinator of M.Sc. in Mathematics in CODL Tezpur University	Coordination with faculty members	10.09.2011 To 31.10.2017
	Program Co-ordinator for "income generation in Financial Sector" in Community college Tezpur University	Designing the syllabus. Interacting with professionals	22/07/2016 To Till date

6. Select ten post- Ph.D. publications:

1. S Dutta, and S Biswas (2018). Nonparametric estimation of $100(1-p)\%$ expected shortfall: $p \to 0$ as sample size is increased. Communications in Statistics-Simulation and Computation 47 (2), 338-352

2. S Dutta, and S Biswas (2017). Extreme quantile estimation based on financial time series. Communications in Statistics-Simulation and Computation 46 (6), 4226-4243

3. S Dutta, and K Saha (2017). Pointwise and uniform convergence of multivariate kernel density estimators using random bandwidths. Communications in Statistics-Theory and Methods 46 (6), 2708-2723

4. S Dutta (2016) Distribution function estimation via Bernstein polynomial of random degree. Metrika 79 (3), 239-263

5. S Dutta (2016) Cross-validation revisited. Communications in Statistics-simulation and Computation 45 (2), 472-490

6. S Dutta, K Saha (2016). Consistency of multivariate density estimators using random bandwidths. Communications in Statistics-Theory and Methods 45 (2), 252-266

7. S Dutta (2015). Local smoothing for kernel distribution function estimation. Communications in Statistics-Simulation and Computation 44 (4), 878-891

8. S Dutta. (2014). Local smoothing using the bootstrap. Communications in Statistics-Simulation and Computation 43 (2), 378-389

9. S Dutta, A Goswami (2013). Pointwise and uniform convergence of kernel density estimators using random bandwidths. Statistics & Probability Letters 83 (12), 2711-2720

10. A Bose, S Dutta (2013). Density estimation using bootstrap bandwidth selector Statistics & Probability Letters 83 (1), 245-256

7. Papers presented in conferences and appearing in technical reports.

1. Extreme quantile estimation, with applications in finance. *Paper presented* in International conference in Statistics and Probability, PCM 125. Organized by Indian Statistical Institute, Kolkata, January 2-4, 2018.

2. Nonparametric estimation of 100(1-p) percent expected shortfall: p close to zero. Conference on Statistical Methods in Finance, 2016. Organized by Chennai Mathematical Institute (CMI) and ISI Chennai.

3. Multivariate density estimation using L_1 smoothing. *Invited paper* in XXXI Annual convention of ISPS and International Conference on Statistics, Probability and Related Areas during Dec 19-22, 2011.

4. Dutta S. (2010). A bootstrap based locally adaptive density estimate. Presented in FIIM conference December 2010.

5. Mode estimation for discrete distributions. Jubilee Conference in Discrete Mathematics. Jan 11-13, Centre for Mathematical Sciences, Banasthali University.

6. Bose, A. and Dutta, S. (2009) (a). Smooth Bootstrap Estimate of Mean Integrated Square Error 31-01-2009. Stat Math Unit, ISI Kolkata, Technical Reports 2009, **No. R1/2009**: http://www.isical.ac.in/~statmath/html/publication/techreport.html.

7. Bose, A. and Dutta, S. (2009) (b). Estimating bias and mean squared error of kernel density estimator, 29-07-2009. Stat Math Unit, ISI Kolkata, Technical Reports 2009, No. **No. R13/2009:** http://www.isical.ac.in/~statmath/html/publication/techreport.html.

8. Dutta, S. (2005). A Generalization of Rubin's (1981) Nonparametric Bayesian Bootstrap. International Workshop/Conference on Bayesian Statistics and its Applications, January 6-8, in, Banaras Hindu University. http://atlas-conferences.com/c/a/p/j/23.html.

9. Dutta, S. (2002) Bayesian estimation of parameters of Inflated Modified Poisson Distribution. International Conference on Ranking and Selection Multiple Comparisons, Reliability and Their Applications. December 28-30, Chennai, India.

11. **Invited Talks**

1. Resource person in DST sponsored intensive course, during December, 18-28 2006 in Dept. of Physics, Tezpur University. Delivered *three* lectures on probability distributions.

2. Delvered talk on "MISE of a kernel density estimator" in Stat Math Unit ISI Kolata.http://www.isical.ac.in/~statmath/html/seminar/Santanu%20Dutta22-jul-2009.html

3. Delivered talk on ``Application of bootstrap in estimation of some measures of accuracy and bandwidth selection of a product kernel density estimator", on 13-01- 2010. (see Past seminar list in http://www.isical.ac.in/~statmath)

4. "Density Estimation with R" in the department of Statistics, Dibrugarh University on 23/09/2010.

5. Speaker in Workshop On Probability, January 02-10, 2014, Funded and Organized By Indian Statistical Institute, Kolkata (in collaboration with Dept. Mathematical Sciences, Tezpur University, Tezpur)

6. Resource person in Training-cum-Workshop on Biological Data analysis using R. Organized by CSIR-NE Institute of Science and Technology January 5-6, 2017.

7. Invited Speaker in StatFin2017, Statistical Methods in Finance 2017. Organized by MCX, Chennai Mathematical Institute and ISI Chennai, December 16-19 2017.

8. Invited lecture on "Introduction to nonparametric regression". Research Methodology course in Social Sciences for Ph.D. students. North East Centre of ISI, during 15-25. January 2018.

9. Invited lecture on "Introduction to quantile regression". Research Methodology course in Social Sciences for Ph.D. students. North East Centre of ISI, during 15-25. January 2018.

8. Project: UGC minor research project (w.e.f 1/2/2011) of Rs 1,00,000/- for project entitled " Smooth Bootstrap estimation of various measures of accuracy and bandwidth selection for kernel density estimators."

9. **Awards.**
   1. NBHM TEACHER FELLOWSHIP for the year 2009.
   2. Nominated for "Shyama Prasad Mukherjee (SPM)" fellowship.
   3. SPECTRUM Talent Award for year 1998, for academic excellence.
   4. Late Dhirensharma Suwaroni Samiti, for best graduate of science stream of Gauhati university for the year 1998.

10. Visiting positions held.
   1. **Visiting research fellow** in Stat-Math unit of the Indian Statistical Institute (ISI) Kolkata. From July 2007-August 2008.
   2. **Visiting Scientist in** Stat-Math unit of the Indian Statistical Institute (ISI) Kolkata July 13, 2009 to July 31, 2009. (see Annual report http://www.isical.ac.in/~statmath/)
   3. **Visiting Scientist in** Stat-Math unit of the Indian Statistical Institute (ISI) Kolkata July 16-23, 2012.

12. Conferences/Workshops attended:

1. Workshop on Statistical Techniques in Health Sciences, Gauhati University, March 23-25, 2002.
2. Workshop on Statistical Data Analysis using SPSS, Computer and Statistical Service Center, Guahati University, December 10-14, 2002.
3. International Conference on Ranking and Selection, Multiple Comparisons, Reliability, and Their Applications. December 28-30, 2002, Chennai.
4. International Bayesian Workshop/Conference, Stat-Math Unit, Indian Statistical Institute, Kolkata, January 6-8, 2003.
5. International workshop/conference on Bayesian Statistics and its application, Varanasi, January, 2005.
6. Summer school on stochastic processes and Applications, IIT Guwahati, July 11-23, 2005
7. ISI Workshop on demography and population dynamics with emphasis on survey sampling methodologies, October 26-28, 2006.
8. Conference on Discrete mathematics, Banasthali University, January 11-13, 2009.

9. International conference on Frontiers of Interface between statistics and sciences, Hyderabad University, December 30, 2009 to January 2, 2010.
10. International conference of Forum for interdisciplinary Mathematics on Interdisciplinary Mathematical and Statistical techniques, December 18-20, 2010.

11. Workshop on Development of Self-Learning Materials for Distance Learners organized during 17th and 18th June, 2011 at Tezpur University.

12. Workshop on Analysis. January 03-09, 2012. Organized by ISI Kolkata and Mathematical Sciences department Tezpur University.

13. Workshops organized:
1. Organizer in Workshop on Probability. January 02-10, 2014, 2014. Organized by ISI Kolkata and Mathematical Sciences department Tezpur University.

2. Convener in Annul Foundation School-I (AFS-I):1st to 29th December 2015, funded by National Centre for Mathematics, venue Department of Mathematical Sciences, Tezpur University.

3. Organizer in one week Faculty Development Progrsmme in Mathematics Department of Mathematical Sciences Tezpur University 12 – 18 December 2014.

13. Knowledge in Computer:
Application Software and Languages known: Microsoft Word, Excel, Power Point, MS Office, Latex, SPSS, R.
Operating systems: Windows 98, XP and Vista.

PERSONAL DETAILS:
Date of Birth: 29th November, 1976
Gender: Male

Parents' Name & Occupation: Dr. Salil Kr. Dutta, Retd. Head of the Statistics Department of Arya Vidyapit college, Guwahati.

Caste (General/ST/SC/OBC): General

Marital Status: Married
Spouse: Dr. Pinky Dutta

Nationality: Indian

Place: Tezpur   Santanu Dutta
Date: 24th September, 2018