Sudeep R. Bapat

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1. RESEARCH INTERESTS:

- Sequential Methodologies
- Change Point Analysis
- Statistical Inference
- Time Series
- Linear Models
- Survival Analysis
- Financial Mathematics and Data Mining

2. EDUCATION:

- Ph.D. Statistics (August 2017, Expected), University of Connecticut, Storrs, USA
  - *Dissertation*: Multistage Sampling Strategies in Health Studies under Appropriate Linex Loss Functions
  - *Advisor*: Prof. Nitis Mukhopadhyay
  - Passed PhD Qualifying Examination (January 2015) and the General Examination (February 2016)
- M.Sc. Applied Statistics and Informatics, Indian Institute of Technology, Mumbai, India (CPI – 8.18/10)
  - Electives: Decision theory, Advanced algorithms
  - Masters Project: Copula Methods in Finance, under the supervision of Prof. P. Vellaisamy
- B.Sc. Statistics (Honors), Ramjas College, University of Delhi, India

3. TEACHING:

- Solo Instructor, University of Connecticut, Storrs, USA, Fall 2016
  - Statistical Methods (Calculus Level I), STAT 3025 (40 students)
  - *Textbook*: Probability and Statistics for the Engineering and the Sciences, by J. L. Devore (Edition 8), Cengage-Brooks/Cole 2012
- Solo Instructor, University of Connecticut, Storrs, USA, Summer 2016
  - Statistical Methods (Calculus Level I), STAT 3025 (20 students)

- *Textbook*: Probability and Statistics for the Engineering and the Sciences, by J. L. Devore (Edition 8), Cengage-Brooks/Cole 2012

- Graduate Assistant, University of Connecticut, Storrs, USA, Fall 2013 - Present
  - Hold discussion sections (25 students each)
  - Hold tutoring hours for various course levels (STAT 1000/1100/3025/3375)
  - Grade assignments for a range of undergraduate and graduate courses
  - Proctor exams
  - Helping to organize weekly departmental colloquiums

4. TEACHING EVALUATIONS:

- Selected students' comments from Discussion Sections, STAT 1000 (Introduction to Statistics I), Spring 2016:
  - Sudeep did very well getting to the point of his lesson
  - He did a fantastic job

- Selected students' comments from Solo Teaching, STAT 3025, Summer 2016:
  - He used class time effectively by focusing on covering all of what was needed to be taught each class. He was well prepared for each lecture and was very thorough in covering the material
  - High clarity
  - Helpful in addressing questions

- Selected students' comments from Solo Teaching, STAT 3025, Fall 2016:
  - Very clear lectures that made it easy to follow along in class.
  - The instructor was well organized with his teaching.
  - Useful examples in class.

5. RESEARCH:

REFEREED PUBLICATIONS

- Mukhopadhyay, N. and Bapat, S. R. (2016). Multistage Point Estimation Methodologies for a Negative Exponential Location Under a Modified Linex Loss Function: Illustrations with Infant Mortality and Bone Marrow Data, *Sequential Analysis* 35, Issue 2, 175-206
  doi: http://dx.doi.org/10.1080/07474946.2016.1165532
  Link to the reprint:
  http://sudeep-bapat.grad.uconn.edu/wp-content/uploads/sites/1824/2016/10/In-print-version.pdf

- Mukhopadhyay, N. and Bapat, S. R. (2016). Multistage Estimation of the Difference of Locations of Two Negative Exponential Populations Under a Modified Linex Loss Function: Real Data Illustrations from Cancer Studies and Reliability Analysis, *Sequential Analysis* 35, Issue 3, 387-412
  doi: http://dx.doi.org/10.1080/07474946.2016.1206386
  Link to the reprint:
  http://sudeep-bapat.grad.uconn.edu/wp-content/uploads/sites/1824/2016/10/In-print-version-1.pdf

PAPERS UNDER SUBMISSION

- Mukhopadhyay, N. and Bapat, S. R. (2016). Multistage Estimation of a Negative Binomial Location under a Modified Linex Loss Function with Ecological Applications: One Sample and Two Sample Problems

PAPERS UNDER PREPARATION

- Applications of Linex Loss in Non-Parametric Problems
- Developing Test Statistics for Change Point Problems under Different Distributions

CONFERENCE-ABSTRACT

- Title: Multistage Estimation of a Negative Exponential Location under a Modified Linex Loss Function: Illustrations in Health Studies
  International Workshop on Applied Probability, Toronto, Canada, June 20-23, 2016

6. CONFERENCE PRESENTATIONS:

- **INVITED (FULL-LENGTH PAPER)**

  - Title: Multistage Estimation of a Negative Exponential Location under a Modified Linex Loss Function: Illustrations in Health Studies
    8th International Workshop on Applied Probability, Toronto, Canada, June 20-23, 2016
    Session Title: Multistage Sampling in Inference and Applied Probability, June 20, 2016
    Slides on my website:
    sudeep-bapat.grad.uconn.edu/wp-content/uploads/sites/1824/2016/08/iwap.pdf

  - The 6th International Workshop in Sequential Methodologies, Rouen, France, June 20-23, 2017 (Forthcoming)

- **POSTER PRESENTATIONS**

  - Title: Multistage Methodologies for Estimating a Negative Exponential Location under a Modified Linex Loss Function: Illustrations from Health Studies
    30th New England Statistics Symposium, Yale University, New Haven, Connecticut, April 23, 2016

7. INVITED SEMINAR PRESENTATIONS:

- Title: Multistage Estimation of a Negative Exponential Location under a Modified Linex Loss Function: Illustrations in Health Studies
  Indian Statistical Institute, Delhi, India, May 23, 2016

- Title: Multistage Estimation of a Negative Exponential Location under a Modified Linex Loss Function: Illustrations in Health Studies
  Indian Institute of Technology, Bombay, India, December 30, 2016

8. GRANTS/AWARDS RECEIVED:

- Pre-Doctoral Fellowship, Department of Statistics, University of Connecticut - Storrs, Summer 2015
- Elizabeth M. McFarlane Fellowship, Department of Statistics, University of Connecticut - Storrs, Summer 2016
- CLAS Spring Graduate Travel Award, University of Connecticut - Storrs: International Workshop on Applied Probability Conference 2016
- Student Travel Award, Department of Statistics, University of Connecticut - Storrs: International Workshop on Applied Probability Conference 2016
- Doctoral Dissertation Fellowship, University of Connecticut - Storrs, Fall 2016

9. INTERNSHIP:

- One month at Nil-Labs, Gurgaon, India, December 2010
  The job involved working on a benchmarking project of a tier-I company. Helped with sampling plan as well as creation of the case study

10. PROFICIENCY IN ACTUARIAL EXAMINATIONS:

- CT-3 (Probability and Statistics) and CT-7 (Economics), Institute of Actuaries of India
  The Institute of Actuaries of India is a Full Member of the International Actuarial Association, which is an umbrella organization to all actuarial bodies across the world

11. MAJOR COURSES TAKEN:

- Applied Statistics
- Bayesian Inference
- Design of Experiments
- Financial Data Mining
- Linear Models
- Mathematical Statistics
- Probability Theory

12. COMPUTING SKILLS:

- C, C++
- Minitab
- Matlab
- Python
- R
- SAS
- SPSS

13. AFFILIATIONS:

- Member, The American Statistical Association
- Member, Institute of Mathematical Statistics

- Member, TARANG, South Asian Association for Graduate Students, University of Connecticut, Storrs, USA

14. SERVICE:

- Member, Student Committee, 29th New England Statistics Symposium, University of Connecticut, 2015
- Vice President, TARANG (South Asian Association for Graduate Students), University of Connecticut, 2015

15. BEYOND ACADEMICS:

- I have been learning Hindustani (Indian) classical music over 12 years and have performed in several stage shows in India
- I have been an active member of TARANG (South Asian Association for Graduate Students) and am involved in organizing and participating in various cultural events
- I was an active member of the chess, badminton and drama clubs during my masters program at the Indian Institute of Technology, Mumbai