

# Sudeep R. Bapat

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Department of Operations Management and Quantitative Techniques  
Indian Institute of Management, Indore  
Indore, Madhya Pradesh, India

Email: [sudeepb@iimidr.ac.in](mailto:sudeepb@iimidr.ac.in)

Cell: +91-8377881090

## EMPLOYMENT

- Visiting Assistant Professor  
Department of Operations Management and Quantitative Techniques, IIM Indore  
July 2020 - Present
- Visiting Assistant Professor  
Department of Statistics and Applied Probability, University of California, Santa Barbara  
July 2017 – June 2020

## EDUCATION

- Ph.D. Statistics, University of Connecticut, Storrs, 2013-2017
  - *Dissertation*: Multistage Sampling Strategies in Health Studies Under Appropriate Linex Loss Functions
  - *Advisor*: Dr. Nitis Mukhopadhyay
  - *GPA*: 3.7/4
- M.Sc. Applied Statistics and Informatics, Indian Institute of Technology, Bombay, India  
2010-2012, *GPA*: 8.8/10
- B.Sc. Statistics (Honors), Ramjas College, University of Delhi, India, 2007-2010

## RESEARCH

### REFEREED PUBLICATIONS

- Mazucheli, J., Bapat, S. R. and Menezes, A. F. B. (2020). A New One Parameter Unit-Lindley Distribution, *Chilean Journal of Statistics*, 11/1: 53-66.
- Bapat, S. R. (2020). An Alternative Measure of Positive Correlation for Bivariate Time Series, *Communication in Statistics, Simulation and Computation*

- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). Purely Sequential and k-Stage Procedures for Estimating the Mean of an Inverse Gaussian Distribution, *Methodology and Computing in Applied Probability*, <https://doi.org/10.1007/s11009-019-09765-x>
- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). A k-Stage Procedure for Estimating the Mean Vector of a Multivariate Normal Population, *Sequential Analysis*, 38/3: 369-384.
- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). Multistage Procedures for the Minimum Risk and Bounded Risk Point Estimation of the Location of Negative Exponential Distribution Under the Modified Linex Loss Function, *Sequential Analysis*, 38/2: 135-162
- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). Multi-Stage Point Estimation of the Mean of an Inverse Gaussian Distribution, *Sequential Analysis*, 38/1: 1-25
- Chaturvedi, A., Chattopadhyay, S., Bapat, S. R. and Joshi, N. (2019). Sequential Point Estimation Procedures for the Parameter of a Family of Distributions, *Communications in Statistics, Simulation and Computation*
- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). Second-Order Approximations for a Multivariate Analog of Behrens-Fisher Problem through Three-Stage Procedure, *Communications in Statistics, Theory and Methods*
- Chaturvedi, A., Bapat, S. R. and Joshi, N. (2019). Sequential Minimum Risk Point Estimation of the Parameters of an Inverse Gaussian Distribution, *American Journal of Mathematical and Management Sciences*
- Bapat, S. R. (2018). Purely Sequential Fixed Accuracy Confidence Intervals for  $P(X < Y)$  under Bivariate Exponential Models, *American Journal of Mathematical and Management Sciences*, <https://doi.org/10.1080/01966324.2018.1465867>
- Bapat, S. R. (2018). On Purely Sequential Estimation of an Inverse Gaussian Mean, *Metrika*, <https://doi.org/10.1007/s00184-018-0665-0>
- Bapat, S. R. (2018). A New Correlation for Bivariate Time Series with a Higher Order of Integration, *Communications in Statistics, Simulation and Computation*, <https://doi.org/10.1080/03610918.2018.1520875>
- Mukhopadhyay, N. and Bapat, S. R. (2018). Renewed Looks at the Distribution of a Sum of Independent or Dependent Discrete Random Variables and Related Problems, *Methodology and Computing in Applied Probability*
- 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.

- 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.
- Mukhopadhyay, N. and Bapat, S. R. (2017). Purely Sequential Bounded Risk Point Estimation of the Negative Binomial Mean under Various Loss Functions: One-Sample Problem, *Annals of the Institute of Statistical Mathematics*.
- Mukhopadhyay, N. and Bapat, S. R. (2017). Purely Sequential Bounded Risk Point Estimation of the Negative Binomial Means Under Various Loss Functions: Multi-Sample Problems, *Sequential Analysis*, 36, Issue 4, 490-512.

## PAPERS UNDER SUBMISSION

- Jammalamadaka, S. R. and Bapat, S. R. "Middle Censoring in the Multinomial Distribution with Applications."
- Zhuang, Y. and Bapat, S. R. "On Comparing Locations of Two Parameter Exponential Distributions Using Sequential Sampling."

## TEACHING

- Instructor, IIM Indore, Fall 2020
  - Statistical Methods 2
- Instructor, University of California, Santa Barbara, Fall 2017-Spring 2020
  - Probability and Statistics (120 students)
  - Time Series Analysis (Graduate level course)
  - Regression Analysis (Graduate level course)
  - Design of Experiments
- Solo Instructor, University of Connecticut, Storrs, Summer 2016-Spring 2017
  - Statistical Methods (Calculus Level I)
- Teaching Assistant, University of Connecticut, Storrs, 2013-2017
- Instructor, Indian Statistical Institute, Delhi, September 2019
  - Basic Inference in R for the Certification Program on Business Analytics, Data Mining and Operations Research

## CONFERENCE PRESENTATIONS

### ➤ INVITED (FULL-LENGTH PAPER)

- Title: Multistage Estimation of a Negative Binomial Mean with Applications in Ecology  
IASSL Conference on Statistics for Good Governance, Colombo, Sri Lanka, December 2017
- Title: Multistage Estimation of a Negative Exponential Location under a Modified Linex Loss Function: Illustrations in Health Studies  
8<sup>th</sup> International Workshop on Applied Probability, Toronto, Canada, June 20-23, 2016
- Title: Purely Sequential Estimation of a Negative Binomial Mean with Applications in Ecology  
The 6<sup>th</sup> International Workshop in Sequential Methodologies, Rouen, France, June 20-23, 2017
- Title: Purely Sequential Estimation of a Negative Binomial Mean with Applications in Ecology  
Quality and Productivity Research Conference, University of Connecticut, USA, June 2017

### ➤ POSTER PRESENTATIONS

- Title: Multistage Methodologies for Estimating a Negative Exponential Location under a Modified Linex Loss Function: Illustrations from Health Studies  
30<sup>th</sup> New England Statistics Symposium, Yale University, New Haven, Connecticut, April 23, 2016
- Purely Sequential Estimation of a Negative Binomial Mean with Applications in Ecology  
Design and Analysis of Experiments, University of California, Los Angeles, October 2017

### ➤ 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
- Title: Purely Sequential Estimation of a Negative Binomial Mean with Applications in Ecology  
Indian Institute of Technology, Kanpur, India, August 8, 2018

### ➤ 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

#### ➤ **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

#### ➤ **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

#### ➤ **COMPUTING SKILLS**

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

#### ➤ **SERVICE**

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