



Bivas Bank

Curriculum Vitae

Personal details

- o **Born** October 18, 1988 in Khirpai (W.B.), India. Indian citizen
- o **Current work address** Tezpur Central University, Assam, India.
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Education

- 2016–2021 **Doctor of Philosophy**, *Mathematics*, National Institute of Technology Raipur, Raipur, Chhattisgarh, India.
- 2010–2012 **Masters of Science**, *Mathematics with 76.8% marks*, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India.
- 2006–2010 **Bachelor of Science**, *Honours in Mathematics with 55% marks*, Vidyasagar University, Medinipur, West Bengal, India.
- 2015 **Graduate Aptitude Test in Engineering (GATE)**, *Mathematical science with all India rank 563 and GATE score 398.*
- 2015 **National Eligibility Test (NET)**, *Mathematical science with all India rank 54(Lectureship).*

PhD Thesis

- Title *Analysis of some batch arrival and/or bulk-service queueing models*
- Supervisor Dr. Sujit Kumar Samanta
- Description This thesis studied some single-server queueing models with non-renewal arrival and/or service processes including batch arrival or batch service with a brief comparative study among existing solution methods and obtain the queue/system-length distributions at various epochs, the waiting-time/sojourn-time distribution of an arriving customer, the service batch size distribution of an arriving customer for batch service queue as well as other different performance measures of the system.

Research interests

- o Queueing theory and its applications
- o Stochastic process and modelling with applications
- o Operations Research

Computer skills

- Basic Word processing, Graphics and Multimedia
- Intermediate \LaTeX , OpenOffice, Microsoft Windows, Linux
- Advanced Maple and Matlab

Languages

Bengali Mother tongue
English Intermediate
Hindi Basic

Full list of publications

- S.K. Samanta, B. Bank (2020), Extended analysis and computationally efficient results for the $GI/M^{a,b}/1$ queueing system, *Communications in Statistics - Theory and Methods*, In press.
doi.org/10.1080/03610926.2020.1801739 (SCIE, I.F-0.893).
- S.K. Samanta, B. Bank (2020), Analysis of stationary queue-length distributions of the $BMAP/R^{(a,b)}/1$ queue, *International Journal of Computer Mathematics: Computer Systems Theory*, 5(3), 198-223 (Scopus).
- B. Bank, S.K. Samanta (2020), Analytical and computational studies of the $BMAP/G^{(a,Y)}/1$ queue, *Communications in Statistics - Theory and Methods*, 50(15), 3586-3614 (SCIE, I.F-0.893).
- B. Bank, S.K. Samanta (2021), Performance analysis of a versatile correlated batch arrival and batch-service queue, *Queueing Models and Service Management*, 4(1), 1-30 (International refereed journal).
- S.K. Samanta, B. Bank (2021), Modelling and Analysis of GI/BMSP/1 Queueing System, *Bulletin of the Malaysian Mathematical Sciences Society*, 44(6), 3777-3807 (SCIE, I.F-1.554).

Attended Workshops

2016–Present

- 1) Short Term Training Program “Probability & statics with application in science and engineering”, Department of Mathematics, National Institute of Technology Raipur, Raipur, Chhattisgarh, India, 17th and 21th August, 2016.
- 2) Gain Workshop on “Matrix-Analytic Methods in Queueing Models”, Central University of Kerala, Kasaragod, Kerala, India, 15th January to 25th January, 2018.

List of conferences

2019–Present

- 1) Presented a paper entitled “Queue-length distribution of the $BMAP/G/1$ Queue under N -Policy” in the th Chhattisgarh Young Scientists Congress-2019, Pt.Ravishankar Shukla University, Raipur, Chhattisgarh, India, 28th February and 1st March, 2019.

Teaching experience

2015–Present

- 1) Guest Lecturer in Vivekananda Satavarshik Mahavidyalaya under Vidyasagar University, Medinipur, West Bengal, India from 24/11/2015 to 03/08/2016.
- 2) Guest Lecturer in Kalinga University, Raipur, Chhattisgarh, India on online platform for the session 2020–2021.
- 3) Currently working as a Guest Faculty in Tezpur Central University, Assam, India.