

# Bio-Data

## Dr. Suchandan Kayal

### Address

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### Educational Background

- Ph. D. (Indian Institute of Technology Kharagpur)-Statistics, 2011.

### Awards and Honours

- Young Scientist Award in Statistics by ISCA-2012
- Postdoctoral Fellowship-Indian Institute of Technology Bombay, 2011
- NBHM Postdoctoral Fellowship-2011
- CSIR SRF- (2008-2010)
- Doctoral Fellowship (IIT Kharagpur)-(2005-2008)
- GATE Qualified-2004
- NET Qualified-2004

### Research Interest

- Statistical Information Theory
- Decision Theory
- Statistical Inference
- Order Statistics
- Record Values
- Reliability Theory
- Truncated Sample

### Experience

- Assistant Professor, Department of Mathematics, NIT Rourkela, since March 2014.
- Assistant Professor, Department of Applied Mathematics, BIT Mesra. 2012-2014.
- Research Associate, Department of Mathematics, IIT Bombay. 2011-2012.

## Publications

- **Suchandan Kayal**, (2016). On Generalized Cumulative Entropies, *Probability in the Engineering and Information Sciences*, to appear.
- **Suchandan Kayal** and Somesh Kumar, (2016). Estimating Renyi Entropy of Several Exponential Distributions under an Asymmetric Loss Function, *RevStat*, to appear.
- **Suchandan Kayal**, (2016). Characterization based on Generalized Entropy of Order Statistics, *Communications in Statistics-Theory and Methods*, to appear.
- **Suchandan Kayal**, (2015). Generalized Residual Entropy and Upper Record Values, *Journal of Probability and Statistics*, Vol. 2015.
- **Suchandan Kayal**, (2015). Some Results on Dynamic Discrimination Measures of Order ( $\alpha$ ,  $\beta$ ), *Haceteppe Journal of Mathematics and Statistics*, Vol. 44 (1), P. 179-188.
- **Suchandan Kayal**, Somesh Kumar and P. Vellaisamy, (2015). Estimating the Renyi Entropy of Several Exponential Populations, *Brazilian Journal of Probability and Statistics*, Vol. 29. 94-111.
- **Suchandan Kayal**, (2015). On Generalized Dynamic Survival and Failure Entropies of Order ( $\alpha$ ,  $\beta$ ), *Statistics and Probability Letters*, Vol. 96, P. 123-132.
- **Suchandan Kayal**, (2015). Some Results on a Generalized Residual Entropy based on Order Statistics, *Statistica*, Vol. 74, P. 383-402.
- **Suchandan Kayal**, (2014). Estimating the Mean of an Exponential Population under Progressively Type-II Censored Sample, *Applied Mathematical Sciences*, Vol. 8, P. 3425-3434.
- **Suchandan Kayal**, (2014). Estimating Scale Parameter of an Exponential Population under Linex Loss Function based on Records, *International Journal of Mathematics and Statistics*, Vol. 15, P. 89-95.
- **Suchandan Kayal** and Somesh Kumar, (2013). Estimation of the Shannon's Entropy of Several Shifted Exponential Populations, *Statistics and Probability Letters*, Vol. 83, P. 1127-1135.
- **Suchandan Kayal** and P. Vellaisamy, (2011). Generalized Entropy Properties of Records, *Journal of Analysis*, Vol. 19, P. 25-40.
- **Suchandan Kayal** and Somesh Kumar, (2011). Estimating the Shannon Entropy of Several Exponential Populations , *International Journal of Statistics and Economics*, Vol. 7, P. 42-52.

- **Suchandan Kayal** and Somesh Kumar, (2011). Estimating the Entropy of an Exponential Population under Linex Loss Function, ***Journal of Indian Statistical Association***, Vol. 91, P. 91-112.

### Conference and Symposium Participated

- Conference on Advances in Mathematics and Statistics, Indian Institute of Technology Kanpur, India, 29-31 October, 2010.
- Regional Symposium on Mathematics, Indian Institute of Technology Kharagpur, India, 15-17 January, 2010.
- National Meet of Research Scholars, I.I.T. Kanpur, India, 4-6 April, 2008.
- International Conference on Statistical Paradigms: Recent Advances and Reconciliations, Indian Statistical Institute Kolkata, India, 1-4 January, 2008.
- International Conference of Statistics, University of Mumbai, Mumbai, India, 31 May-2 June, 2007.

### Journal Referee

- Mathematical Reviews/MathSciNet Reviewer (Number: 111311)
- Statistical Methodology
- Communication in Statistics-Theory and Methods
- International Journal of Mathematics and Statistics

### PhD Student

- Rajesh Moharana, since July 2014

### Courses Offered (Theory and Lab)

- Probability and Statistics
- Advanced Probability Theory
- Bio-Statistics
- Mathematics-I
- Mathematics-II
- Mathematics-III
- C-Programming Lab
- Mathematical Software (Matlab) Lab

### Bachelor and Master Theses

Students intending to write a **Bachelor** or **Master** thesis are very welcome to contact me. Topics in probability and mathematical statistics are continuously on offer. Please write an email summarising your interests and

in detail the courses taken during your studies, as well as the time when you want to start with your thesis. Moreover, please come a week or two after sending the email with the information to my departmental office.

**Possible topics for master theses are:**

- Frequentist and Bayesian Estimation in Censoring Environment
- Nonparametric Estimation of Density Function
- Entropies based on Fractional Calculus

**Possible topics for bachelor theses are:**

- Estimation of Parameters based on Complete Sample
- Bivariate Exponential and Gamma Distributions
- Principle of Maximum Entropy