

Dr. Tamalika Koley

PERSONAL DATA

DATE OF BIRTH: 08.08.1990
ADDRESS: Decision Sciences
Indian Institute of Management Lucknow
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POSITIONS AND EMPLOYMENT

MARCH 2024 - PRESENT Assistant Professor (Grade-II)
Indian Institute of Management Lucknow

SEPTEMBER 2021 - MARCH 2024 Assistant Professor of Statistics
Birla Institute of Technology, Mesra

AUGUST 2020 - SEPTEMBER 2021 Post Doctoral Fellow, Decision Sciences
Indian Institute of Management Bangalore

JANUARY 2020 - JULY 2020 Visiting Scientist, Applied Statistics Unit
Indian Statistical Institute, Kolkata

ACADEMIC QUALIFICATIONS

JULY 2013 - JANUARY 2020 PhD in Statistics (defended on Jan 8, 2020)
Thesis title: **Current Status Data with two competing risks and missing failure types**
Advisor: Prof. Anup Dewanji
Indian Statistical Institute, Kolkata

JULY 2011 - JUNE 2013 M.Stat.
Indian Statistical Institute, Kolkata, First Division (70.45%)

JULY 2008 - JUNE 2011 Bachelor of Science in Statistics
Presidency College Kolkata
(affiliated to University of Calcutta)
First Division (76.88%)

RESEARCH INTEREST

- Survival Analysis
- Reliability Theory
- Applied Statistics

COURSES TAUGHT

- Statistical Methods - I (Theory & Laboratory) • Statistical Methods - II (Theory & Laboratory) • Probability - I • Linear Statistical Models and Regression Analysis (Theory & Laboratory) • Multivariate Data Analysis.

TECHNICAL SKILLS

Programming Languages : C, R, Latex, Minitab
Operating Systems : Windows, Linux
Other Tools : MS Word, MS Excel, MS Power Point.

PUBLICATIONS

- **Koley, T.** and Dewanji, A. (2018). Revisiting non-parametric maximum likelihood estimation of current status data with competing risks. *Sankhya B*.81(1):39–59.
- Ghosh, S. and **Koley, T.** (2019). A Comparative Spatial Analysis of crimes against women in India, 2016 : Debunking Public/ Private dichotomy in understanding crimes against women in India. *North Bengal anthropologist*. 7:103–135.
- **Koley, T.** and Dewanji, A. (2022). Current Status Data with two Competing risks and Missing failure types: A Parametric Approach. *Journal of Applied Statistics*.49(7):1769–1783.
- **Koley, T.**, Sultana F. and Dewanji, A. (2022). Parametric Analysis of Tampered Random Variable Model for Multiple Step-Stress Life Test. *Journal of Statistical Theory and Practice*. DOI: 10.1007/s42519-022-00316-1.
- **Koley, T.** and Dewanji, A. (2023). Current status data with two competing risks and missing failure types: Time dependent missing probabilities. *Journal of Applied Statistics*. DOI: 10.1080/02664763.2023.2231174.
- **Koley, T.** and Dewanji, A. Use of Additional Information for Current Status Data with Two Competing Risks and Missing Failure Types. (Under Review).
- **Koley, T.**, Jana, M. and Basak, G. Simultaneous Confidence Intervals for Multi-way Clustered Stock Return Data. (Under Review).
- Jana, M. and **Koley, T.** Obtaining interval enclosure of the solution set for the system of interval linear equations. (Under Review).

WORKING PAPERS

- **Koley, T.** and Dewanji, A. Current Status Data with two Competing risks and Missing failure types: A Non-Parametric Approach.
- **Koley, T.** Design issues in Current Status Data with Competing Risks.
- **Koley, T.** and Dutta, T. An investigation utilizing survival models on Madhya Pradesh's infant mortality rate.
- Kumari, K., **Koley, T.** and Dutta, T. An evaluation of flood-related damage: a district-level investigation conducted in Bihar, India.

INVITED/ CONTRIBUTED TALKS

- 19-21 FEBRUARY, 2014 Participated in the Research Scholars' Meet on Reliability Theory, Survival Analysis and Related Topics held at Indian Statistical Institute, Kolkata
- 28-31 DECEMBER, 2015 Presented a paper on Ninth International Triennial Calcutta Symposium on Probability and Statistics, organized by Department of Statistics, University of Calcutta and Calcutta Statistical Association.
- 3-5 NOVEMBER, 2016 Presented a paper on International Workshop on Reliability Theory and Survival Analysis organized by Savitribai Phule Pune University, Pune.
- 20-22 NOVEMBER, 2017 Attended workshop on Reliability Theory and Survival Analysis organized by Applied Statistics Unit, ISI, Kolkata.
- 13 JULY, 2018 Attended IEEE CIS - Intel AI Academy One day Workshop jointly organized by Intel and IEEE CIS Kolkata Chapter.
- 28-30 NOVEMBER, 2018 Presented a paper on Workshop on Reliability Theory and Survival Analysis organized by Indian Statistical Institute, Bangalore.
- 26-31 DECEMBER, 2019 Presented a poster on International Indian Statistical Association (IISA).
- 07-09 OCTOBER, 2021 Presented a paper on International Conference on Mathematical Sciences (ICMS-2021) organized by Humanities, Department of Mathematics and SVNIT, Surat.
- 26-30 DECEMBER, 2022 Invited Lecture on International Indian Statistical Association (IISA) 2022 Conference organized by IISc. Bangalore.

ADDITIONAL INFORMATION

1. Roles and Responsibilities

JANUARY 2016 - MAY 2016	International Statistical Education Center (ISEC) Taught Statistical Analysis of data in Excel to students sponsored from various nationalities at Indian Statistical Institute, Kolkata.
MARCH 7, 2016 - MARCH 18, 2016	Winter School Application of Statistical Methods in Medicine Responsibility included preparing and teaching course materials and help the attendees with statistical data analysis using R.
AUGUST 2019 - NOVEMBER 2019	assisted master degree students of Ali Yavar Jung National Institute of Speech and Hearing Disabilities, Eastern Regional Center in statistical analysis.
FEBRUARY 24, 2020 - FEBRUARY 28, 2020	visited the Department of Management, NEHU, Tura campus, Meghalaya as a resource person in workshop-cum-training program on Application of Statistics in Social Sciences.

2. Others

- Organizing Secretary of the National Conference, **1st Annual QEDS Conference, 2024**, organized by the Centre for Quantitative Economics and Data Science, Birla Institute of Technology, Mesra, Ranchi.
- Reviewed research papers in peer reviewed journals.
- Invited as a Chief Guest at the Dazzling Data Science Summit' 23 hosted by Society for Data Science, BIT Mesra.

SCHOLARSHIPS AND CERTIFICATES

- Received Certificate of Merit for Academic excellence in Class 12 in December 2007.
- Secured 7th rank in B.Sc. with Honours in Statistics from the University of Calcutta.
- Secured 9th rank (All India Rank) in IIT JAM 2011 in Statistics.
- Selected for 2-year M.Stat programme (All India basis) in the Academic year 2011-2013.
- Awarded Junior Research Fellowship from Indian Statistical Institute, Kolkata, 2013.
- Awarded Senior Research Fellowship from Indian Statistical Institute, Kolkata, 2015.