



Prof Kaushik Jana

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Ahmedabad University
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Research Area

- Statistical Modeling and Data Science

Extreme Value Analysis, Public Health Data Modelling, Image and Shape Data Analysis, Quantile Regression, Measurement Error Model, Streaming Data Analysis, Causal Inference in modelling, Extreme Events, Statistical applications in Public Health, Urban and Agricultural Sciences, Environment and Climatology.

Profile

Education & Scientific Career

- Assistant Professor of Statistics, Ahmedabad University (Jan 2021– Present)
 - Postdoctoral Research Associate, Imperial College London, UK (Feb 2018 – Jan 2021)
 - Ph. D. in Statistics Indian Statistical Institute, Kolkata (Jul 2011 – Dec 2017)
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Awards

- Grant awarded: Regional Covid Infection Explorer and Forecaster in the Indian Context [Principal Investigator, Seed Grant by Ahmedabad University, Total intended award amount INR 200000, 2021-22]
 - Cecilia Tanner Research Impulse Award (2019), Imperial College London
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Membership of professional bodies and Editorial assignments:

- International Statistical Institute (ISI),
- Institute of Mathematical Statistics (IMS),
- Fellow of the Royal Statistical Society (RSS),
- International Indian Statistical Association (IISA),
- Isaac Newton Institute (INI), Cambridge, UK.
- Bernoulli Society for Mathematical Statistics and Probability.

Publications

- Gandy, A. Jana, K. and Veraart, A. (2021) Scoring Predictions at Extreme Quantiles. *Advances in Statistical Analysis*
- Jana, K. and Sengupta, D. (2021). Improving Linear Quantile Regression for Replicated Data, *Statistics*
- Mukherjee, S., Chaudhuri, S., Bose, T., Roy, T., Jana, K., Jana, D. (2021) Profile and early prediction of neuromotor outcome of very low birth weight infants, *Asian Journal of Medical Sciences*, Vol. 12, No. 10, 51-57.
- Jana, K., Sengupta, D., Kundu, S., Chakraborty, A. and Shaw, P. (2020). The Statistical Face of a Region under Monsoon Rainfall in Eastern India. *Journal of the American Statistical Association*, Vol. 115, No. 532, 1559-1573.
- Gregory, A. and Jana, K. (2019). Space-efficient Estimation of Empirical Tail Dependence Coefficients for Bivariate Data Streams, *Statistical Analysis and Data Mining: The ASA Data Science Journal*, Vol. 13, No-1, 14-30.
- Jana, K., Sengupta, D. and Rudra, K. (2016). Correction of Bifurcated River Flow Measurements from Historical Data: Paving the Way for Teesta Water Sharing Treaty, *Annals of Applied Statistics*, Vol. 10, No. 3, 1757-1775.
- Jana et al (2018) Developing data science tools for improving enterprise cyber-security, *The Alan Turing Institute Data Study Report by Imperial College London, Los Alamos National Laboratory, Heilbronn Institute.*
- Jana, K., Basu, L., Jana, K. (2021) Commented on the discussion paper entitled 'Modeling the COVID-19 infection trajectory: a piecewise linear quantile regression approach' authored by Jiang, J., Zhao, Z., and Shao, X. published in the *Journal of the Royal Statistical Society: Series B*.