Bhrigu Kumar Rajbongshi

Senior Research Fellow
Department of Mathematics & Computing
Indian Institute of Technology (Indian School of Mines)
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Education

2021 –.... **Ph.D., IIT(ISM) Dhanbad**
CGPA:- 8.35 (during Course Work)
Thesis title: *Handling Missing data in Longitudinal and Survival Studies(Tentative)*
Supervisor: Prof. Gajendra K. Vishwakarma; IIT(ISM) Dhanbad, Dr. Atanu Bhattacherjee;
University of Dundee, Scotland

2017 – 2019 **M.Sc. (Statistics)**
CGPA: 7.9
University of Hyderabad, (Telengana).

2014 – 2017 **B.Sc. (Statistics)**
CGPA:- 8.9
Cotton University, (Assam).

2011 – 2013 **H.S.S.L.C.**
Percentage: 79
Assam Higher Secondary Education Council, (Assam).

2010 – 2011 **H.S.L.C.**
Percentage: 88.33
Secondary Education Board of Assam, (Assam).

Skills

Languages Strong reading, writing and speaking in Assamese (Mothertongue), Hindi and English.

Coding R, C, Matlab, LaTeX, R shiny

Research Interest

R package development

Missing data analysis

Longitudinal data Modeling

Survival data Modeling

Joint Modeling

Bayesian Modeling

Research Publications

Journal Articles

1 A. Bhattacharjee, **B. K. Rajbongshi**, and G. K. Vishwakarma, "Jmbig: Enhancing dynamic risk prediction and personalized medicine through joint modeling of longitudinal and survival data in big routinely collected data," *BMC Medical Research Methodology*, vol. 24, no. 1, p. 172, 2024.

2   A. Bhattacharjee, G. K. Vishwakarma, **B. K. Rajbongshi**, and A. Tripathy, "MIIPW: An R package for Generalized Estimating Equations with missing data integration using a combination of mean score and inverse probability weighted approaches and multiple imputation," *Expert Systems with Applications*, vol. 238, p. 121 973, 2024.

3   A. Bhattacharjee, G. K. Vishwakarma, A. Tripathy, and **B. K. Rajbongshi**, "Competing risk multistate censored data modeling by propensity score matching method," *Scientific Reports*, vol. 14, no. 1, p. 4368, 2024.

4   G. K. Vishwakarma, A. Bhattacherjee, B. K. Rajbongshi, and A. Tripathy, "Censored imputation of time to event outcome through survival proximity score method," *Journal of Computational and Applied Mathematics*, p. 116 103, 2024.

R Packages

1   A. Bhattacharjee, **B. K. Rajbongshi**, and G. K. Vishwakarma, *MIIPW: IPW and Mean Score Methods for Time-Course Missing Data*, R package version 0.1.2, 2024. 🔗 URL: `https://CRAN.R-project.org/package=MIIPW`.

2   A. Bhattacharjee, **B. K. Rajbongshi**, and G. K. Vishwakarma, *jmBIG: Joint Longitudinal and Survival Model for Big Data*, R package version 0.1.1, 2023. 🔗 URL: `https://CRAN.R-project.org/package=jmBIG`.

3   A. Bhattacharjee, A. Pawar, and **B. K. Rajbongshi**, *longit: High dimensional longitudinal data analysis using mcmc*, R package version 0.1.0, 2021. 🔗 URL: `https://CRAN.R-project.org/package=longit`.

Conferences & Workshops

Poster presented

2024   Title: **MIIPW: An R package for Generalized Estimating Equations with missing data integration using a combination of mean score and inverse probability weighted approaches and multiple imputation**, at *Royal Statistical Society, International Conference,2024*

Paper presented

2021   Title: **Disease dynamic biomarker by incorporating missing values through mean score and inverse probability weighted methods**, at *XV Biennial Virtual Conference of International Biometric Society - Indian Region.*

Participated

2023   *GIAN course on Big Data Ananlysis through Copula* organized by IIT(ISM) Dhanbad, India.

        GIAN course on Option Pricing: A Computational Framework organized by IIT(ISM) Dhanbad, India.

2021 39th *Annual Conference of Indian Society for Medical Statistics* held at Ranchi, India.

2018   *Workshop on Time Series and Financial Modelling* held at University of Hyderabad, India.

2017   *Workshop on Current Issues and Application of Statistical Methods* held at University of Hyderabad, India.

        IISA International Conference on Statistics held at Hyderabad, India.

2016 1st *International Conference on Climate Science* held at Cotton College, Guwahati.

2015   *Workshop on Applications of Elementary Probability and Statistical Inference* held at Cotton College, Guwahati.

Awards and Achievements

2024   Selected for **DST SERB ITS** to attend *Royal Statistical Society, International Conference 2024* at Brighton, United Kingdom from 2nd Sept to 5th Sept, 2024

2020   Qualified **GATE(2020) Statistics** with AIR 172.

2014–2017   **Ishan Uday Scholarship for North Eastern Region.**

2011   **18th Holiram Hazarika Memorial Award** for having secured the highest marks in aggregate in H.S.L.C. examination in the district of Darrang, Assam.

Declaration

I hereby declare that the information mentioned above are true and correct to the best of my knowledge.

Bhrigu Kumar Rajbongshi