Atanu Bhattacharjee

Curriculum Vitae

Education

2008–2012 **Ph.D in Statistics**, *Gauhati University*, Guwahati.

Title *Bayesian analysis for longitudinal data on type 2 diabetes patients*

Supervisor Professor Dilip C Nath

2006–2008 **M.Sc in Statistics**, *Banaras Hindu University*, Varanasi.

Experience

2017-Present **Assistant Professor**,*Centre for Cancer Epidemiology, Tata Memorial Centre, Mumbai*

2016-2017 **Senior Biostatistician**, *Chiltren Clinical Research Ltd, Bangalore*

2013-2016 **Assistant Professor**, *Malabar Cancer Centre, Thalassery*

Publications in Decision Science journals (10 best papers)

2021 Bayesian effective biological dose determination in immunotherapy response trial. *Annals of Data Science*, 1-15.

A weight function method for selection of proteins to predict an outcome using protein expression data. *Journal of Computational and Applied Mathematics*, 391,113465.

Joint modeling of longitudinal and time-to-event data on multivariate protein biomarkers. *Journal of Computational and Applied Mathematics*, 381, 113016.

Bayesian competing risk analysis: an application to nasopharyngeal carcinoma patients data. *Computational and Systems Oncology*, 1(1), e1006.

2020 Classification algorithm for high-dimensional protein markers in time-course data. *Statistics in Medicine*, 39(28), 4201-4217.

Estimation of treatment effect with missing observations for three arms and three periods crossover clinical trials. *Annals of Data Science*, 7(3), 447-460.

Disease progression of cancer patients during COVID-19 pandemic: a comprehensive analytical strategy by time-dependent modelling. *BMC medical research methodology*, 20(1), 1-7.

Handling missingness value on jointly measured time-course and time-to-event data. *Communications in Statistics-Simulation and Computation*, 1-21.

2019 Time-course data prediction for repeatedly measured gene expression. *International Journal of Biomathematics*, 12, 4, 1950033.

2018 Bayesian state-space modeling in gene expression data analysis: An application with biomarker prediction. *Mathematical Biosciences*, 305, 96-101.

Publications in Medical journals (10 best papers)

2021 Risk prediction by Raman spectroscopy for disease-free survival in oral cancers. *Lasers in Medical Science*, 1-10.

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Illustration of missing data handling technique generated from hepatitis C induced hepatocellular carcinoma cohort study. *Journal of King Saud University-Science*, 33, 101403.

2020 Low-cost oral metronomic chemotherapy versus intravenous cisplatin in patients with recurrent, metastatic, inoperable head and neck carcinoma: an open-label, parallel-group, non-inferiority, randomised, phase 3 trial. *The Lancet Global Health*, 8(9), e1213-e1222.

A competing risk analysis of death patterns in male genitourinary cancer. *Cancer Reports*, 3(4), e1174.

Identification of key genes and construction of regulatory network for the progression of cervical cancer. *Gene Reports*, 21, 100965.

Human papillomavirus elevated genetic biomarker signature by statistical algorithm. *Journal of Cellular Physiology*, 235(12), 9922-9932.

Should we wait or not? The preferable option for patients with stage iv oral cancer in covid-19 pandemic. *Head & neck*, 42(6), 1173-1178.

HER2 borderline is a negative prognostic factor for primary malignant breast cancer. *Breast cancer research and treatment*, 181(1), 225-231.

Aprepitant for cough suppression in advanced lung cancer: a randomized trial. *Chest*, 157(6), 1647-1655.

2019 Phase I/II study of palliative triple metronomic chemotherapy in platinum-refractory/early-failure oral cancer. *Journal of Clinical Oncology*, 37(32), 3032-3041.

Book

2020 **Bayesian Approaches in Oncology Using R and OpenBUGS**
by Atanu Bhattacharjee, Chapman and Hall, CRC.ISBN 9781000329988

CRAN listed R-packages developed

2021 MIIPW, highMLR, SurviMChd , SurvHiDim, autohd, longit, afthd

Teaching

Post-Graduate Exploratory data analysis, Linear and logistic regression analysis, Parametric and non-parametric statistical inference, Bayesian data analysis, Linear mixed effect models, Survival data analysis, Longitudinal data analysis, Research methodology with R

Research grant as Principal Investigator

2021-2024 Joint modeling of longitudinal and time-to-event data with multiple imputations, CSIR

2020-2021 Normal activity initiation by using Artificial Intelligence based technology to fight against COVID-19 in different hotspots of India, ICSSR

2020-2021 Bayesian individual-level modeling of the spread of COVID-19 Pandemic, SERB

2017-2020 Joint modeling of event time and nonignorable missing covariate data in survival and longitudinal analysis, SERB

Ph.D supervision as external supervisor

2021 Modeling of gene expression for cancer biomarkers using Bayesian framework by Abin Thomas, *Awarded*

2021 Joint models for time-to-event and repeated measurement data by Souvik Banerjee, *Submitted*

2021 Modelling of missing observations in longitudinal measurements by Jesna Jose, *Submitted*