# ANIKET BISWAS

## PERSONAL INFORMATION

*Assistant Professor, Department of Statistics, Dibrugarh University, Dibrugarh, Assam-786004, India.*

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| *DOB* | July 29, 1994 |
| *E-mail* | biswasaniket44@gmail.com · aniket_stat@dibru.ac.in |
| *Phone* | +91 7003149431 · +91 9775568395 |
| *Google Scholar* | https://scholar.google.com/citations?hl=en&user=jFtEPCgAAAAJ |

## RESEARCH INTERESTS

Simultaneous statistical decision-making; Stochastic modelling; Reliability engineering; Statistical applications in multidisciplinary research.

## TEACHING EXPERIENCE

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| *2018–Present* | Assistant Professor, DIBRUGARH UNIVERSITY |
| *2017–2018* | Lecturer, SIVANATH SASTRI COLLEGE |

## EDUCATION

**Ph.D. in Statistics (Thesis submitted)**

*2017-Present*    University of Calcutta

Title : *On estimation of proportion of true null hypotheses in multiple testing problems*
Supervisor: Prof. Gaurangadeb Chattopadhyay, Department of Statistics, University of Calcutta.
Associate Supervisor: Prof. Tathagata Banerjee, Dhirubhai Ambani Institute of Information & Communication Technology.

**M.Sc. in Statistics**

*2017*    University of Calcutta

Specialization: Statistical inference.
Percentage of Marks: 87%.

**B.Sc. Honours in Statistics**

*2015*    University of Calcutta

General Subjects: Mathematics and Economics.
Percentage of Marks: 80%.

**Higher Secondary**

*2012*    West Bengal Council of Higher Secondary Education

Stream: Science.
Percentage of Marks: 85%.

**Secondary**

*2010*    West Bengal Board of Secondary Education

Percentage of Marks: 85%.

## ACADEMIC ACHIEVEMENTS

*2012-2015*     Supported by DST

*INSPIRE*     Awarded INSPIRE scholarship by DST, GoI.

*2015*     Conducted by IIT Guwahati

*IIT-JAM*     Secured AIR 43 in IIT-JAM and got offer-letter from IIT Kanpur for M.Sc. in Mathematical Statistics.

*2016*     Conducted by UGC

*NET*     Qualified UGC-CSIR NET in Mathematical Science.

## RESEARCH ARTICLES

12. Chakraborty, S., Ong, S.H. & **Biswas, A.** (2023). An extension of the geometric distribution with properties and applications. *Austrian Journal of Statistics* 52(3):124-142. (SCOPUS)
DOI: https://doi.org/10.17713/ajs.v52i3.1487.
LINK: https://www.ajs.or.at/index.php/ajs/onlinefirst/view/1487.

11. **Biswas, A.**, & Chattopadhyay, G. (2022). New results on adaptive false discovery rate control with $p$-value weighting. *Statistical Papers*. (SCIE, SCOPUS)
DOI: https://doi.org/10.1007/s00362-022-01369-x.

10. **Biswas, A.** (2022). Model free bias reduction of Storey's estimator for the proportion of true null hypotheses.*Calcutta Statistical Association Bulletin* 74(1):27-41. (SCOPUS)
DOI: https://doi.org/10.1177/00080683221095155.

9. Sinha, S., Hazarika, A., Johari, S., Neog, B., Rajkhowa, S., **Biswas, A.** (2022). IMPDB: Indian medicinal phytochemical database curated for drug designing. *Journal of Computational Biophysics and Chemistry* 21(6):709-728. (SCIE, SCOPUS)
DOI: https://doi.org/10.1142/S2737416522500302.

8. **Biswas, A.**, Chakraborty, S., & Baruah, V.J. (2022). Estimation of the proportion of true null hypotheses under sparse dependence: Adaptive FDR controlling in microarray data. *Statistical Methods in Medical Research* 31(5):917-927. (SCIE, SCOPUS)
DOI: https://doi.org/10.1177/09622802221074164.

7. Banerjee, A., Chakraborty, S., & **Biswas, A.** (2022). Statistical Issues in Modelling Happiness Level of Immigrants: An Investigation with WHR, 2018. *Thailand Statistician* 20(1):195-206. (SCOPUS)
LINK: https://ph02.tci-thaijo.org/index.php/thaistat/article/view/245859/166753.

6. **Biswas, A.**, Chattopadhyay, G., & Chatterjee, A. (2022). Bias corrected estimators for proportion of tue null hypotheses under exponential model: application of adaptive FDR-controlling in segmented failure data. *Journal of Applied Statistics* 49(14):3591-3613. (SCIE, SCOPUS)
DOI: https://doi.org/10.1080/02664763.2021.1957790.

5. **Biswas, A.** (2022). Estimating the proportion of true null hypotheses with application in microarray data. *Communications in Statistics: Simulation and Computation* 51(11):6294-6308. (SCIE, SCOPUS)
   DOI: https://doi.org/10.1080/03610918.2020.1800036.

4. Maiti, M., Chaudhuri, S., & **Biswas, A.** (2021). Activities of idol immersion leads to heavy metal contamination in river Hooghly in and around the city of Kolkata. *Journal of the Indian Chemical Society* 98(11):1002-1023. (SCIE, SCOPUS)
   DOI: https://doi.org/10.1016/j.jics.2021.100223.

3. **Biswas, A.**, & Chakraborty, S. (2021). Stress-strength reliability for the unit-Lindley distribution with an application. *Calcutta Statistical Association Bulletin* 73(1):7-23. (SCOPUS)
   DOI: https://doi.org/10.1177/0008068321998111.

2. **Biswas, A.**, Chakraborty, S., & Mukherjee, M. (2021). On estimation of stress-strength reliability with log-Lindley distribution. *Journal of Statistical Computation and Simulation* 91(1):128-150. (SCIE, SCOPUS)
   DOI: https://doi.org/10.1080/00949655.2020.1807549.

1. **Biswas, A.** (2020). Regarding paper "Multiple testing with discrete data: Proportion of true null hypotheses and two adaptive FDR procedures" by Xiongzhi Chen, Rebecca W. Doerge and Joseph F. Heyse. *Biometrical Journal* 62(8):2032-2033. (SCIE, SCOPUS)
   DOI: https://doi.org/10.1002/bimj.202000139.

## SEMINAR PRESENTATIONS

1. Presented a paper "Hierarchical Bayesian Estimation Of Species Richness In Correlated Abundance Setup" in National seminar on RTTAS- 4, held on 15th to 16th March, 2019; organised by Department of Statistics, Dibrugarh University.

2. Presented a paper "ESTIMATING PROPORTION OF TRUE NULL HYPOTHESES BASED ON SUM OF ALL p-values" in National seminar on RTTAS- 4, held on 15th to 16th March, 2019; organised by Department of Statistics, Dibrugarh University.

## COURSES TAUGHT

*M.Sc Courses*
Data analysis using R-programming, Estimation Theory, Bayesian Inference, Mathematical Analysis, Simulation Techniques, Reliability Engineering, Operations Research.

*PG Diploma Courses*
Applied Statistics.

*B.Sc Courses*
Descriptive Statistics, Basic Probability Theory.

*Other Disciplines*
Biostatistics and Research Methodology (B.Pharm).

## REVIEW FOR JOURNALS

*Computational Statistics and Data Analysis*, *Scientific Reports*,
*Mathematical Population Studies*, *Calcutta Statistical Association Bulletin*,
*Thailand Statistician*.

COMPUTER SKILLS

R, RStudio, Stan, SPSS, LaTeX, C++.

OTHER ACADEMIC ACTIVITIES

1. Acted as resource person in the "Two days workshop cum hands-on training programme on application of R-STAT software in research methodology" held on 20th to 21st July, 2018, organized by CEED, New Delhi and Department of Geography, Shri Shikshayatan College, Kolkata.

2. Participated in One Week Online Workshop on Statistical Inference held during 24-28 August, 2020, organized by the Department of Statistics, Dibrugarh University, Dibrugarh, Assam, India.

3. Participated in the National Level One Week Online Workshop held during 13th to 19th June, 2021, organized by IQAC, Bahona College in association with Assam Science Society, Bahona Branch and Bahona College Library, Bahona, Jorhat.

4. Participated in the On-Line Faculty Induction Programme from 07 September 2021 to 12 October 2021 organized by UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.

5. Acted as a resource person in the "One day workshop on SPSS and R" held on 3rd December, 2021, organized by Department of Statistics, B.N College, Dhubri, Assam.

6. Acted as a resource person in the "One week national workshop on statistical analysis using SPSS" held during 21st-25th March, 2022, organized by the Department of Statistics, Dibrugarh University, Dibrugarh, Assam.

REFERENCES

1. Prof. Gaurangadeb Chattopadhyay
   Professor, Department of Statistics
   University of Calcutta
   35, B.C. Road, Kolkata 700019, West Bengal, India.
   E-mail: gcdhstat@gmail.com

2. Prof. Subrata Chakraborty
   Professor, Department of Statistics
   Dibrugarh University
   Dibrugar 786004, Assam, India.
   E-mail: subrata_stats@dibru.ac.in

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