

Suman Sarkar

Assistant Professor of Statistics,
Department of Rural Studies,
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RESEARCH INTERESTS Sequential Methods in Statistics, Clinical Trials, Odds Ratio.

EDUCATION

- **PhD in Statistics.**
Indian Statistical Institute, Kolkata.
August 2012 - June 2018.
Thesis submitted: June 2018, PhD degree awarded: June 2020.
Advisor: Prof. Atanu Biswas
Title of the thesis: Some Sequential Methodologies on Different Types of Odds Ratios in Clinical Trials
- **M. Sc. (Statistics).**
University of Kalyani, West Bengal.
2009 - 2011.
Stood first in the first class.
- **B. Sc. (Statistics Honours).**
Presidency College, Kolkata.
2004 - 2007.
- **Higher Secondary.**
Kanailal Vidyamandir, Chandannagore, Hooghly.
2002 - 2004.
- **Secondary.**
Durga Charan Rakshit Banga Vidyalaya, Chandannagore, Hooghly.
2000 - 2002.

- 1) Bandyopadhyay, U., **Sarkar, S.**, Biswas, A. (2024) Sequential Estimation of Conditional Odds Ratio. *Journal of the Indian Society for Probability and Statistics* (Invited article).
- 2) Bandyopadhyay, U., **Sarkar, S.**, Biswas, A. (2024). Fixed-width confidence interval of log odds ratio in correlated set-up for crossover design. *Sequential Analysis – Design Methods and Applications* 43(1): 49-56.
- 3) Bandyopadhyay, U., **Sarkar, S.**, Biswas, A. (2022). Sequential Confidence Interval for Comparing Two Bernoulli Distributions in a Non-conventional Set-up. *Statistics and Probability Letters* 181 (2022) 109263.
- 4) Bandyopadhyay, U., **Sarkar, S.**, & Biswas, A. (2021). Fixed-width Confidence Interval for Treatment Difference in Multinomial Sampling. *Sequential Analysis – Design Methods and Applications* 40(2):198-208.
- 5) **Sarkar, S.**, Biswas, A. & Mukherjee, S. (2019). Odds ratio based two-stage group sequential analysis for two-treatment two-period crossover trials. *Communications in Statistics: Case Studies, Data Analysis and Applications* 5(4): 300-313.
- 6) Bandyopadhyay, U., **Sarkar, S.** & Biswas, A. (2017). Fixed-width Confidence Interval of Log Odds Ratio for Joint Binomial and Inverse Binomial Sampling. *Sequential Analysis – Design Methods and Applications* 36(3): 345-354.
- 7) **Sarkar, S.**, & Biswas, A. (2016). Odds Ratio Based Group Sequential Analysis for Joint Binomial and Inverse Binomial Sampling. *Sequential Analysis – Design Methods and Applications* 35(2): 207-215.

WORK
EXPERIENCE

- **Assistant Professor of Statistics**, Department of Rural Studies, **Visva-Bharati**.
January 2022 - present.
- **Assistant Professor of Statistics**, **St. Xavier's University**, Kolkata.
September 2020 - December 2021.
- **Senior Consultant**, **PricewaterhouseCoopers Pvt. Ltd (PwC)**, Kolkata.
April 2019 - September 2020.
- **Visiting Scientist**, **Indian Statistical Institute**, Kolkata.
October 2018 – March 2019.
- **Lead Statistician**, **GlaxoSmithKline Asia Pvt. Ltd (GSK)**, Bangalore.
June 2018 – September 2018.
- **Project Assistant**, **Indian Statistical Institute**, Kolkata.
October 2011 – July 2012.

INVITED
TALKS

- **Eleventh International Triennial Calcutta Symposium**, organized jointly by the Department of Statistics, University of Calcutta and Calcutta Statistical Association, Kolkata, India (2024).
Title: "Sequential Estimation of Non-conventional Odds Ratios"
- **Department of Dermatology**, **Malda Medical College**, India (2024).
Title: "Biostatistics: Data Analysis and Interpretation for Medical Graduates"

CONFERENCES	• Conference for Statistics and Programming in Clinical Research (ConSPIC), organized by Indian Association for Statistics in Clinical Trials, Hydrabad, India (2016). Poster presentation : "Two stage group sequential analysis on crossover data based on binary responses" • International Triennial Calcutta Symposium on Probability and Statistics, Calcutta, India (2015). Contributed talk : "Odds Ratio Based Group Sequential Analysis for Joint Binomial and Inverse Binomial Sampling" • The IISA Conference on Research Innovations in Statistics for Health, Education, Technology and Society, California, USA (2014). Contributed talk : "Odds Ratio Based Group Sequential Analysis for Joint Binomial and Inverse Binomial Sampling"
COURSES TAUGHT	• Elementary Econometrics. • Quantitative Techniques. • Business Mathematics and Statistics.
AWARDS	• 'Bose-Nandi award' given by Calcutta Statistical Association (2019). • Winner of the 'Student poster presentation', at the Conference for Statistics and Programming in Clinical Research (ConSPIC), organized by Indian Association for Statistics in Clinical Trials (2016). • Awarded by Government of West-Bengal, for securing first position in M.Sc Examination on Statistics Day (29th June, 2012). • Saroj Behari Dasgupta Memorial Endowment Award (Stood first class first in M.Sc) from University of Kalyani (2011).
EDITORIAL ACTIVITIES	Reviewer of <i>Sequential Analysis Design Methods and Applications, Communications in Statistics – Theory and Methods</i> .
TECHNICAL EXPERTISE	Programming Language : R.

ADMINISTRATIVE

WORKS

AT VISVA-
BHARATI

- Member of Research advisory committee
- Member of anti-ragging squad
- Member of Departmental Quality Assurance Cell
- Student mentoring
- OASIS Fellowship

PERSONAL

INFORMATION

- **Date of birth** : 21st February, 1987.
- **Gender** : Male.
- **Marital status** : Married.
- **Languages known** : English, Hindi, Bengali.
- **Hobbies** : Writing (published few articles, stories in various bengali newspapers), Reading, Music, Movies, Traveling, Documentary.

REFERENCES

Dr. Atanu Biswas

Professor

Applied Statistics Unit

Indian Statistical Institute, Kolkata

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Dr. Nitis Mukhopadhyay

Professor

Department of Statistics

University of Connecticut, Storrs, United States

nitis.mukhopadhyay@uconn.edu

Dr. Samarjit Das

Professor

Economic Research Unit

Indian Statistical Institute, Kolkata

samarjit@isical.ac.in