

Arkajyoti (AJ) Bhattacharjee

🌐 [arkab-ds.github.io](https://github.com/arkab-ds) ✉ bhattacharjee.57@osu.edu 🌐 [ArkaB-DS](#) **in** [arkajyoti-aj](#)

EDUCATION

The Ohio State University, Department of Statistics Columbus, OH, USA
Doctor of Philosophy (Ph.D.) in Statistics Aug '22 - Ongoing

- **Graduate Teaching Associate** Aug '22 - Ongoing
Lecturing, creating exams, managing recitations, grading, tutoring, and assisting in R labs for undergraduate STAT courses.
- **Relevant Coursework:** Experimental Design, Linear Model Theory, Advanced Statistical Theory I & II, Advanced Computational Statistics, ML & Statistical Pattern Recognition.

Indian Institute of Technology, Kanpur, Department of Math. and Stat. Kanpur, UP, India
Master of Science in Statistics Sep '20 - Jun '22

- **Relevant Coursework:** Statistical & AI Techniques in Data Mining, Time Series Analysis, Multivariate Analysis, Statistical Simulation & Data Analysis, MCMC.
- **Awards:** Academic Excellence Award (2020, 2021) (for the top 10% of the batch with CPI > 8.5/10).
- **Leadership:** Student Nominee in Departmental Undergrad. Committee; STAMATICS Coordinator.

Presidency University, Department of Statistics Kolkata, WB, India
Bachelor of Science (Honours) in Statistics Aug '16 - Jun '19

PUBLICATIONS

Nash J. C. & **Bhattacharjee A.** (2023). *A Comparison of R Tools for Nonlinear Least Squares Modeling*. R Journal 15(4).

EXPERIENCES

Accenture Solutions Pvt. Ltd. Remote
Data Science Analyst Intern May - Jul '21

- Created an AutoML tool with Python and Dash featuring multiple data pre-processing methods, algorithm selection, model optimization, and interactive visualization for diagnostics and predictions.

The R Project for Statistical Computing Google Summer of Code 2021 Remote
Student Developer Jun - Aug '21

- Developed the `nlsCompare` R package to compare model characteristics derived from existing and new R functions for nonlinear least-squares analysis.
 - Wrote tests for `nlsj` to strengthen code structure and improve `nls()` functionality.
- View Project:** <https://summerofcode.withgoogle.com/projects/5154479671869440>

Statistical Consulting Service The Ohio State University Columbus, OH, USA
Graduate Student Consultant May - Jul '23

- Consulted on multi-disciplinary research projects spanning Computer Science, Speech and Hearing Science, Geography, Health and Rehabilitation Science, and Anthropology.

PROJECTS

Understanding Confidence Intervals in Adaptive Markov Chain Monte Carlo Aug - Nov '21

- Reviewed kernel estimators of asymptotic variance and confidence intervals in AMCMC.
- Verified CLT conditions with simulation examples in R.

EXTRACURRICULAR ACTIVITIES

Statistical Analysis Award - American Statistical Association, Columbus Chapter April '24
Judge

- Evaluated and assessed projects for statistical rigor and advanced analysis techniques, providing critical feedback to participants.