Debarshi Chakraborty

3207 Snedecor Hall, Osborn Drive, Ames, IA, United States

✉ debchak@iastate.edu | ⌂ debarshi-statsforever.github.io | in https://www.linkedin.com/in/debarshi-statsforever/

Personal Profile

Pursuing a PhD in Statistics, interested in data analysis and theoretical statistics simultaneously. Wish to pursue an academic career ahead.

Work Experience

Iowa State University   *Ames, IA, USA*
Graduate Research Assistant   *Spring 2024, Fall 2024*
- Supervised by Dr. Vivekananda Roy and Dr. Somak Dutta

Iowa State University   *Ames, IA, USA*
Graduate Teaching Assistant   *Fall 2023*
- Lab Instructor, STAT 341

Education

Iowa State University   *Ames, IA, USA*
PhD in Statistics   *August 2023-July 2028 (Expected)*
- Graduate Assistant

Indian Statistical Institute   *Kolkata, India*
Master of Statistics   *Sept 2021 - June 2023*
- Graduated with distinction
- Specialized in Applied Statistics

St. Xaviers' College (Autonomous)   *Kolkata, India*
Bachelor of Science (Hons) in Statistics   *July 2017 - October 2020*
- Graduated with first division

Research Interests

High Dimensional Data, Bayesian Methods, Nonparametric Inference, Statistical Genomics, Machine Learning

Course Projects

On a Nonparametric Test for Dependence   *Ames, Iowa*
Iowa State University   *Fall 2023*
- Paper review of a method which incorporates two measures of dependence to capture both monotone and non monotone relations
- Mentor : Dr. Kris De Brabanter, Department of Statistics, Iowa State University

A Study of Non Gaussian Graphical Models   *Kolkata, India*
Indian Statistical Institute   *Spring 2023*
- This is my masters final year project. A comprehensive study and literature review of existing methods, discussion on their usability and limitations in different scenarios like large sample and higher dimension. Experiments and Simulations with real and artificial data.
- Mentor : Dr. Arindam Chatterjee, Stat Math Unit, ISI Delhi

On a Robust Correlation Coefficient   *Kolkata, India*
Indian Statistical Institute   *Spring 2023*
- Review of a correlation coefficient which performs better in presence of outliers, discussion of limitations with data based experiments.
- Mentor : Dr. Ayanendranath Basu, Interdisciplinary Statistics Research Unit, ISI Kolkata

A Study on Kernel Density Estimation   *Delhi, India*
Indian Statistical Institute   *Spring 2022*
- Limitations of histogram, demonstration of the idea of KDE, choice of kernels, bandwidths and other properties using simulation.
- Mentor : Dr. Isha Dewan, Stat Math Unit, ISI Delhi

Technical Skills

| **Programming** | R, Python, C++,C, HTML |
| **Softwares** | RStudio, Microsoft Excel, Minitab, LateX, Tableau |

Academic Achievements

2024	**Holly C and E Beth Fryer Award,** Awarded to a top second year graduate student in the Department of Statistics, Iowa State University	*Ames*
2023	**AIR 7,** Graduate Aptitude test for Engineering (GATE), Paper : Statistics	*India*
2021	**AIR 18,** Indian Statistical Institute entrance Examination, Paper : M.Stat	*India*
2020	**AIR 32,** Indian Statistical Institute entrance Examination, Paper : M.Stat	*India*
2017	**Received Inspire Scholarship,** Department of Science and Technology, Government of India	*India*

Extra Curricular Activities

Table Tennis	Professional table tennis player. Current USATT rating is 2109 and I play for the varsity table tennis team
Cricket	A die hard cricket lover since childhood, college cricket tournament being the best memory till date
Art	Received Shilpa Visharad degree in Art in the year 2016 from Sarbabharatiya Sangeet-O-Sanskriti Parishad
Swimming	Professionally trained in swimming
Teaching	Taught Statistics and Mathematics to undergrads for different competitive exams
Resources	Maintaining an initiative Statistics Repository on my webpage to compile online free resources for learning Statistics

Languages

English	Professional proficiency
Bengali	Native proficiency
Hindi	Professional proficiency

I hereby declare that all the information provided above are true to best of my knowledge. References available upon request.