

DEBARSHI CHAKRABORTY

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2438 Osborn Drive, Ames, Iowa - 50011, USA

INTRODUCTION

Exploring new opportunities to leverage my expertise in methodological and applied statistics. Aiming to contribute to innovative projects in interdisciplinary research.

EDUCATION

- **Iowa State University of Science and Technology** Aug 2023 - Jul 2028 (expected)
PhD, Statistics Ames, USA
- **Indian Statistical Institute** Sep 2021- Jul 2023
M.Stat Kolkata, India
- **St. Xavier's College (Autonomous)** Jul 2017 - Oct 2020
BS, Statistics (Minor : Mathematics and Computer Science) Kolkata, India

RESEARCH EXPERIENCE

- **Improving Causal Gene Detection across Crop and Livestock Species, USDA** Jan 2024 - Present
Research Assistant Ames, USA
- **Differential Expression Analysis of RNA Sequencing in *Arabidopsis Thaliana*** Spring 2025
Bioinformatics course project Ames, USA
- **A Semi Supervised Learning Approach for Colour Quantization in Massive Images** Fall 2024
Statistical Computing course project Ames, USA
- **A Study of Non Gaussian Graphical Models** October 2022- April 2023
M.Stat Final Project, Indian Statistical Institute Kolkata, India

RESEARCH INTERESTS

- High Dimensional Data, Statistical Computing, Bayesian Methods, Statistical Genomics, Nonparametric Statistics

TEACHING EXPERIENCE

- **Department of Statistics, Iowa State University** May 2025 - Aug 2025
Instructor Ames, USA
 - A short revision course for graduate students taking the written preliminary exam for PhD (Probability Theory, Inference, Statistical Methods and Linear Models)
- **Department of Statistics, Iowa State University** Aug 2023 - Dec 2023
Teaching Assistant Ames, USA
 - Lab Instructor and grader for STAT 341 (Introduction Theory of Probability and Statistics I)
- **Cheenta School of Statistics and Data Science** September 2021 - July 2023
Guest Faculty Ames, USA
 - Developed and taught courses like Probability Theory, Statistical Inference, Survey Sampling and Linear Models to undergraduate statistics and mathematics students



CONFERENCE TALKS

- **International Conference of Statistics and Data Science** December 2025
Seville, Spain
 - Contributed Talk : *Bayesian Variable selection in Ultra High Dimensional Additive Partial Linear Models*
- **Joint Statistical Meetings** August 2025
Nashville, USA
 - Contributed Talk : *Bayesian Variable selection in Ultra High Dimensional Additive Partial Linear Models*



TECHNICAL SKILLS

- **Programming Languages:** R, Python, C++, C
- **Web Technologies:** HTML, CSS



HONORS AND AWARDS

- **Holly C and E Beth Fryer Award** August 2024
Iowa State University 
 - Awarded to a top student in their PhD second year for superior performance in statistics core courses
- **Inspire Scholarship** January 2018
Department of Science and Technology, Government of India 
 - Awarded to top 1% of high school graduates of every state / central education board

POSITION OF RESPONSIBILITY

- **President** Jan 2026 - July 2026
STATers, Iowa State University 
 - Responsible for organizing events and finding opportunities that help in professional development of graduate students, including but not limited to company visits, internship panels, research forums between students and faculty, etc
- **Vice President** Aug 2024 - Dec 2025
STATers, Iowa State University 
 - Responsible for organizing events and finding opportunities that help in professional development of graduate students, including but not limited to company visits, internship panels, research forums between students and faculty, etc

VOLUNTEER EXPERIENCE

- **Student Mentor** Aug 2024- present
Department of Statistics, Iowa State University 
 - Help and guide first year graduate students starting their journey as a researcher
- **Prayas Camp** June 2019
National Service Scheme (NSS), India 
 - Serve as a volunteer in a one week long camp which helps poor and underprivileged school children get the exposure of modern education, healthcare system, laws,etc by involving them in fun activities like role playing, movies and city tours

ADDITIONAL INFORMATION

Languages: English (Full professional proficiency), Bengali (Native speaker), Hindi (Full professional proficiency)

Interests: Table Tennis, Cricket, Swimming, Art, Photography, Traveling, Cooking, Reading novels