SNIGDHA DAS

October, 2025

CONTACT INFORMATION

Department of Statistics, Texas A&M University
405B Blocker Building,
3143 TAMU, 155 Ireland St,
College Station, TX 77843, USA.

Phone: +1 (979) 845-3141
E-mail: snigdha@stat.tamu.edu /
snigdha.stats@gmail.com

EDUCATION

Texas A&M University, College Station, Texas, USA

Doctor of Philosophy, Department of Statistics   Aug 2021[1] – May 2026 (expected)

- Advisor: Dr. Debdeep Pati
- Area of Study: Nonparametric Bayes
- GPA: 4.0/4.0

University of Calcutta, Kolkata, West Bengal, India

Master of Science, Department of Statistics   Aug 2018 – Jul 2020

- Specialization: Advanced Statistical Inference
- GPA: 9.02/10.00 (First in First Class)

St. Xavier's College, Kolkata, West Bengal, India

Bachelor of Science, Department of Statistics   Jul 2015 – Jul 2018

- Minors: Mathematics, Computer Science
- GPA: 8.98/10.00

RESEARCH INTERESTS

Bayesian nonparametrics, efficient Bayesian computation, approximate Bayesian inference, applications in biomedicine and oral health, survey methodology, deep generative modeling.

AWARDS AND HONORS

Academic Awards

Texas A&M University, College Station, Texas, USA
- Poster Award (Silver Prize) – Southeast Texas Chapter of the American Statistical Association (SETCASA) Annual Meeting and Poster Competition.   2025
- Student Paper Award (Honorable Mention) – American Statistical Association (ASA) Sections on Survey Research Methods (SRMS), Government Statistics (GSS) and Social Statistics (SSS).   2025
- Heep Graduate Research Fellowship – Hagler Institute for Advanced Study (HIAS).   2025
- Thomas Powell '62 Graduate Fellowship Award – College of Arts & Sciences, Texas A&M University.   2024
- Anant M. Kshirsagar Endowed Fellowship Award – Department of Statistics, Texas A&M University.   2023
- Joe Newton Poster Award (Bronze Prize) – Conference on Advances in Data Science.   2022

University of Calcutta, Kolkata, West Bengal, India
- R. C. Bose Memorial Award – Calcutta Statistical Association (CSA).   2019
- Poster Award (Bronze Prize) – National Seminar for Sample Surveys.   2019

St. Xavier's College, Kolkata, West Bengal, India
- South-East Asia Subsistence Fellowship – University of Calcutta.   2018
- Taparupa Sen Memorial Prize – St. Xavier's College, Kolkata.   2018

Travel Awards
- Research and Presentation (RAP) Travel Award, Graduate & Professional School, Texas A&M University
  – 14th International Conference on Bayesian Nonparametrics (BNP), Los Angeles, California.   2025
- Bayesian Nonparametric section of the International Society for Bayesian Analysis (BNP - ISBA)
  – 14th International Conference on Bayesian Nonparametrics (BNP), Los Angeles, California.   2025
- National Science Foundation (NSF) Travel Award
  – International Society for Bayesian Analysis (ISBA) World Meeting, Venice, Italy.   2024
- Department of Statistics, Texas A&M University
  – 14th International Conference on Bayesian Nonparametrics (BNP), Los Angeles, California.   2025
  – Joint Statistical Meetings (JSM), Toronto, Canada.   2023

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[1]Deferred admission in Fall, 2020 due to COVID-19 travel restrictions.

– 13th International Conference on Bayesian Nonparametrics (BNP), Puerto Varas, Chile. 2022
- International Indian Statistical Association (IISA) Travel Award
– International Indian Statistical Association (IISA) Conference, Golden, Colorado. 2023
- Department of Statistics' Working and Learning Environment (Climate) Committee, Texas A&M University
– 13th International Conference on Bayesian Nonparametrics (BNP), Puerto Varas, Chile. 2022
- Institute of Mathematical Sciences, National University of Singapore
– Conference on Current Trends in Survey Statistics, Singapore. 2019

PAPERS AND MANUSCRIPTS

Manuscripts in Preparation / Submitted / under Revision

2. **Das, S.**, Bandyopadhyay, D., Pati, D. (2025+) Deep generative conditional density regression for inference in complex surveys. *In Preparation*.

1. **Das, S.**, Bandyopadhyay, D., Pati, D. (2025+) Scalable Efficient Inference in Complex Surveys through Targeted Resampling of Weights. *Submitted*. [arXiv] [code]
   [**Student Paper Award (Honorable Mention)**, ASA Sections on Survey Research Methods, Government Statistics and Social Statistics; **Poster Award (Silver Prize)**, SETCASA]

Papers Accepted / Published

2. **Das, S.**, Chae, M., Pati, D., Bandyopadhyay, D. (2025) A monotone single index model for spatially-referenced multistate current status data. *Biometrics,* 81(3), In Press. [DOI] [arXiv] [code]

1. **Das, S.**, Niu, Y., Ni, Y., Mallick, B.K., Pati, D. (2024) Blocked Gibbs sampler for hierarchical Dirichlet processes. *Journal of Computational and Graphical Statistics*, 34(2), 519–529. [DOI] [arXiv] [code]
   [**Joe Newton Poster Award (Bronze Prize)**, Conference on Advances in Data Science]

PRESENTATIONS

- Scalable Efficient Inference in Complex Surveys through Targeted Resampling of Weights.
  - (*Poster presentation*). 14th International Conference on BNP, Los Angeles, California. Jun 2025
  - (*Poster presentation*). SETCASA Annual Meeting and Poster Competition, College Station, Texas. Apr 2025
  - (*Poster presentation*). Best of Statistical Science (BOSS) Workshop, College Station, Texas. Apr 2025
  - (*Invited talk*). 11th International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India. Dec 2024
  - (*Poster presentation*). International Society for Bayesian Analysis (ISBA) World Meeting, Venice, Italy. Jul 2024
- A monotone single index model for spatially-referenced multistate current status data.
  - (*Contributed talk*). Joint Statistical Meetings (JSM), Toronto, Canada. Aug 2023
- Blocked Gibbs sampler for hierarchical Dirichlet processes.
  - (*Poster presentation*). Theory and Foundations of Statistics in the Era of Big Data, Tallahassee, Florida. Apr 2024
  - (*Selected long talk*). Bayesian Young Statisticians Meeting (BAYSM), Virtual Conference. Nov 2023
  - (*Poster presentation*). International Indian Statistical Association (IISA), Golden, Colorado. Jun 2023
  - (*Poster presentation*). SETCASA Annual Meeting and Poster Competition, College Station, Texas. May 2023
  - (*Poster presentation*). 13th International Conference on BNP, Puerto Varas, Chile. Oct 2022
  - (*Poster presentation*). Conference on Advances in Data Science, College Station, Texas. Oct 2022
- A Review of Single Wave Snowball Sampling as a corollary of Graph Sampling.
  - (*Poster presentation*). National Seminar for Sample Surveys, Kolkata, India. Mar 2019

TEACHING

Texas A&M University, College Station, Texas, USA
- **Course Instructor**

  STAT 302: Statistical Methods (Undergraduate Level) Fall 2024

- **Guest Lecturer** (Primary Instructor: Dr. Debdeep Pati)

  STAT 605: Advanced Statistical Computations (Graduate Level) Spring 2024

- **Teaching Assistant**

  STAT 611: Statistical Inference (Graduate Level) Spring 2022
  STAT 414: Mathematical Statistics I (Undergraduate Level) Fall 2021

- **Graduate Assistant**

  Open Educational Resources (OER) Textbook Initiative – Contributed to the development of
  freely accessible materials and assessments for introductory undergraduate statistics courses. Summer 2025

Leadership Activities & Services

- Social Chair, Statistics Graduate Student Association (SGSA), Texas A&M University.   Aug 2023 – Aug 2025
- Student Volunteer, Statistics and Data Science Summer Camp, Texas A&M University.   Jun 2025
- Graduate Student Representative, Department Head Search Committee,
  Department of Statistics, Texas A&M University.   Mar 2025 – May 2026
- Student Volunteer, National Service Scheme (NSS), St. Xavier's College, Kolkata.   Jul 2015 – Jun 2018

References

Dr. Debdeep Pati (Ph.D. advisor)
Professor,
Department of Statistics,
University of Wisconsin – Madison.
Email: dpati2@wisc.edu

Dr. Dipankar Bandyopadhyay (Collaborator)
Professor,
Department of Biostatistics,
Virginia Commonwealth University.
Email: dbandyop@vcu.edu

Dr. Yang Ni (Collaborator & Ph.D. committee member)
Associate Professor,
Department of Statistics and Data Sciences,
The University of Texas at Austin.
Email: yang.ni@austin.utexas.edu

Dr. Alan Dabney (Teaching Mentor)
Professor & Associate Head for Teaching Excellence,
Department of Statistics,
Texas A&M University.
Email: adabney@stat.tamu.edu