

# SNIGDHA DAS

October, 2025

## CONTACT INFORMATION

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## EDUCATION

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

Doctor of Philosophy, [Department of Statistics](#) Aug 2021<sup>1</sup> – 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

<sup>1</sup>Deferred admission in Fall, 2020 due to COVID-19 travel restrictions.

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

## PAPERS AND MANUSCRIPTS

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### 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

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- 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

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### 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

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- 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 2025
- Student Volunteer, [National Service Scheme \(NSS\)](#), St. Xavier's College, Kolkata. Jul 2015 – Jun 2018

## REFERENCES

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**Dr. Debdeep Pati** (Ph.D. advisor)

Professor,  
Department of Statistics,  
University of Wisconsin – Madison.  
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**Dr. Yang Ni** (Collaborator & Ph.D. committee member)

Associate Professor,  
Department of Statistics and Data Sciences,  
The University of Texas at Austin.  
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**Dr. Dipankar Bandyopadhyay** (Collaborator)

Professor,  
Department of Biostatistics,  
Virginia Commonwealth University.  
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**Dr. Alan Dabney** (Teaching mentor)

Professor & Associate Head for Teaching Excellence,  
Department of Statistics,  
Texas A&M University.  
Email: [adabney@stat.tamu.edu](mailto:adabney@stat.tamu.edu)