

# Saptarshi Chakraborty

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## *Curriculum Vitae*

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### CONTACT INFORMATION

Department of Biostatistics  
School of Public Health and Health Professions (SPHHP)  
State University of New York (SUNY) at Buffalo  
718 Kimball Tower  
Buffalo, NY 14214, USA

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### EDUCATION AND TRAINING

- 2020 **Postdoctoral Research in Statistical Genomics**, *Memorial Sloan Kettering Cancer Center*, New York, NY, USA.
- 2018 **Ph.D. in Statistics**, *University of Florida*, Gainesville, Florida, USA.
- 2013 **M.S. in Statistics**, *Indian Statistical Institute*, Kolkata, India.
- 2011 **B.Sc. (Hons.) in Statistics**, *Presidency College*, Kolkata, India.

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### EMPLOYMENT

- Since 2020 **Assistant Professor of Biostatistics (Tenure Track)**, *State University of New York at Buffalo*, Buffalo, NY, USA.

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### PROFESSIONAL APPOINTMENTS

- 2022-Present **Chair, BERD Consulting Lab**, CTSI Biostatistics Epidemiology & Research Design (BERD) Core, SPHHP, University at Buffalo SUNY.

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2021-Present **Biometric Bulletin Correspondent**, Eastern North American Region (ENAR) Section of International Biometric Society (IBS).

2020-Present **Member, CTSI Biostatistics Epidemiology & Research Design (BERD) Core**, CTSI SPHHP, University at Buffalo SUNY.

## RESEARCH INTERESTS

Computational Statistics, Bayesian modeling, Bayesian computations and Monte Carlo methods, statistical modeling in cancer genomics and computational biology, statistical methods for medical product safety/pharmacovigilance, statistical machine learning, big and high-dimensional data, dimension reduction, statistical software development, statistical consultation in biomedical research.

## REFEREED PUBLICATIONS

### Statistics in Genomics and Computational Biology

1. **Chakraborty, S.**, Martin, A., Guan, Z., Begg, C. B., and Shen, R. (2021). Mining mutation contexts across the cancer genome to map tumor site of origin. *Nat Commun* **12**, 3051. [Link](#).
2. **Chakraborty, S.**, Ecker, B. L., Seier, K., Aveson, V. G., Balachandran, V. P., Drebin, J. A., D'Angelica, M. I., Kingham, T. P., Sigel, C. S., Soares, K. C., Vakiani, E., Wei, A. C., Chandwani, R., Gonen, M., Shen, R., Jarnagin, W. R. (2021). Genome-derived Classification Signature for Ampullary Adenocarcinoma to Improve Clinical Cancer Care. *Clinical Cancer Research*. **(27)** (21) 5891-5899. [Link](#).
3. **Chakraborty, S.** Tian, L, Tseng, Y, and Wong, S. W. (2021). Bayesian analysis of coupled cellular and nuclear trajectories for cell migration. *Biometrics* 1-12. [Link](#).
4. **Chakraborty, S.**, Begg, C. B., and Shen, R. (2020). Using the “Hidden” Genome to Improve Classification of Cancer Types. *Biometrics*. *2020;1–11*. [Link](#). [arXiv](#).
5. **Chakraborty, S.**, Arora A., Begg, C. B. and Shen, R. (2019). Using Somatic Variant Richness to Mine Signals from Rare Variants in the Cancer Genome. *Nat Commun* **10**, 5506. [Link](#).

### Markov Chain Monte Carlo Theory

6. **Chakraborty, S.**, Bhattacharya, B., and Khare, K. (2022). Estimating accuracy of the MCMC variance estimator: asymptotic normality for batch means estimators. *Statistics and Probability Letters*, 109337. [arXiv](#). [Link](#).

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7. **Chakraborty, S.** and Khare, K. (2019). Consistent estimation of the spectrum of trace class data augmentation algorithms. *Bernoulli*. 25(4B), 2019, 3832–3863. arXiv. Link.
8. **Chakraborty, S.** and Khare, K. (2017). Convergence properties of Gibbs samplers for Bayesian probit regression with proper priors, *Electronic Journal of Statistics* 11, 177-210. Link.

## Statistical Methods for Multivariate Data and Data on Manifolds and Constrained Spaces

9. Lee, M., **Chakraborty, S.**, and Su, Z. (2022). A Bayesian approach to envelope quantile regression. *Statistica Sinica*. 32, 1-19 Link.
10. **Chakraborty, S.** and Wong, S. W. (2022). On the circular correlation coefficients for bivariate von Mises distributions on a torus. *Stat Papers*. Link. arXiv.
11. Maji, A., **Chakraborty, S.**, and Basu, A., (2017). Statistical Inference based on the Logarithmic Power Divergence. *Society For Application Of Statistics And Allied Sciences*, 2, 39–51. Link

## Computational Research

12. **Chakraborty, S.** and Wong, S. W. (2021). BAMBI: An R package for Fitting Bivariate Angular Mixture Models. *Journal of Statistical Software*, 99(11), 1–69. Link.

## Collaborative Applied Research

13. Atanasova, K, **Chakraborty, S** (co-first author), Ratnayake, R, Khare, K, Luesch, H. (2022). An epigenetic small molecule screen to target abnormal nuclear morphology in human cells. *To appear in Molecular Biology of the Cell*.
14. Batra, A, Barnard, A, Lott, D J, Willcocks, R, Forbes, S C, **Chakraborty, S**, Daniels, M, Arbogast, J, Triplett, W, Henricson, E, Dayan, J G, Schmalfuss, C, Sweeney, L, Byrne, B J, McDonald, C, Vandenborne, K, Walter, G A. (2022). Longitudinal changes in cardiac function in Duchenne muscular dystrophy population as measured by magnetic resonance imaging. *To appear in BMC Cardiovascular Disorders*.
15. Ambruster, C.E., Brauer, A.L., Humby, M.S., Shao, J., **Chakraborty, S.** (2021). Prospective assessment of catheter-associated bacteriuria in nursing home residents: clinical presentation, epidemiology, and colonization dynamics. *JCI Insight*. Oct 8;6(19):e144775. Link.
16. Cassidy, D. J., **Chakraborty, S.**, Panda, N., McKinley, S. K., Mansur, A., Hamdi I., Mullen, J., Petrusa, E., Phitayakorn, R., and Gee, D. (2020). The Surgical Knowledge “Growth Curve”: Predicting ABSITE Scores and Identifying “At-Risk” Residents.

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- Journal of Surgical Education*. [Link](#).
17. Barnard, A. M., Wilcox, R., Forbes, S.C., Daniels, M. J., **Chakraborty, S.**, Lott, D., J., Senesac, C. R., Arora, H., Sweeny, L., Walter, G. H., and Vandenborne, K. H. E. (2020). MR biomarkers predict clinical function in Duchenne muscular dystrophy. *Neurology*, 94(9), e897-e909. [Link](#).
  18. Rooney, W. D., Berlow, Y. A., Triplett, W. T., Forbes, S. C., Willcocks, R. J., Wang, D., Arora, H., Senesac, C., Lott, D. J., Finkel, R., Russman, B. S., Finanger, E. L., **Chakraborty, S.**, O'Brien, E., Moloney, B., Barnard, A., Sweeney, H. L., Daniels, M. J., Walter, G. A., and Vandenborne, K. (2020). Modeling disease trajectory in Duchenne muscular dystrophy. *Neurology*, 94(15), e1622-e1633. [Link](#).
  19. Vaziri, S., Awan, O., Porche, K., Scott, K., Sacks, P., Dru, A. B., **Chakraborty, S.**, Khare, K., Hoh, B., and Rahman, M. (2019). Reimbursement Patterns for Neurosurgery: Analysis of the NERVES Survey Results from 2011-2016. *Clinical Neurology and Neurosurgery*, p.105406. [Link](#).
  20. Chatterjee, N., Nair, P.K.R., **Chakraborty, S.**, and Nair, V.D. (2018). Changes in soil carbon stocks across the Forest-Agroforest-Agriculture/Pasture continuum in various agroecological regions: A meta-analysis. *Agriculture, Ecosystems and Environment*, 266, 55-67. [Link](#).
  21. Vaziri, S., Wilson, J., Abbatematteo, J., Kubilis, P., **Chakraborty, S.**, Kshitij, K., and Hoh, D. J. (2017). Predictive performance of the American College of Surgeons universal risk calculator in neurosurgical patients. *Journal of Neurosurgery*, 1-6. [Link](#).

## STATISTICAL SOFTWARE DEVELOPMENT

1. **BAMBI**: An R package for Bivariate Angular Mixture Models. *Downloaded over 40,000 times*.
2. **variantprobs**: An R package for estimating probabilities and expected numbers of mutations in the tumor genome.
3. **hidgenclassifier**: An R package implementing Key functions for Bayesian hidden genome classifiers. Includes functions for preprocessing genomic data, fitting and predicting from hidden genome classifiers.
4. **pvLRT**: An R package for likelihood ratio test based methods for pharmacovigilance.
5. **Benvlp**: An R package for comprehensive Bayesian envelope modeling.

## PRE-PRINT PUBLICATIONS

1. Mukherjee S, Khare K, and **Chakraborty S.** (2021). Convergence properties of data augmentation algorithms for high-dimensional robust regression. *Under Review*
2. **Chakraborty, S.**, Markatou, M., and Ball, R. (2021). Likelihood Ratio Test Based

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Drug Safety Assessment using R package pvLRT. *Under Review*.

3. **Chakraborty, S.**, Liu, A., Ball, R., and Markatou, M. (2021). On the Use of the Likelihood Ratio Test Methodology in Pharmacovigilance. *In Revision*.
4. **Chakraborty, S.** and Su, Z. (2021). A comprehensive Bayesian framework for envelope models. *In revision*.

## GRANTS

### Current Research

1. R01CA251339: Harnessing rare variants for tumor classification (PI: Shen, R.). **Source:** National Cancer Institute (HHS - NIH). **Role:** Consultant. **Period:** April 2021 - March 2024. Total Award Amount: \$404,888.00.
2. 75F40120C00159: Evaluating LRT for Post-Market Surveillance of Adverse Events (PI: Markatou, M.). **Source:** US Food and Drug Administration (FDA). **Role:** Co-investigator **Period:** October 2020 – September 2022. Total Award Amount: \$527,735.00.
3. 5UL1T1001412-06: University at Buffalo Clinical and Translational Science Institute (PD/PI: Murphy, T.F.). **Source:** National Institute of Health: National Center for Advancing Translational Sciences (NIH/NCATS). **Role:** Co-investigator. **Period:** December 2019 - December 2024. Total Award Amount: \$19,231,451.00.

### Submitted/Under Review

1. Statistical Inference in Whole-Genome-Driven Cancer-Site Characterization Problems. **Agency:** National Institute of Health. **Application Type:** R01. **Role:** Principal Investigator.

## ADVISING AND MENTORING

### PhD Student Advising

1. **Anran Liu.** PhD Student at Department of Biostatistics, SPHHP, University at Buffalo SUNY. Co-advised with Prof. Marianthi Markatou. (2020 - Present).
2. **Shuangcheng Hua.** PhD Student at Department of Biostatistics, SPHHP, University at Buffalo SUNY. Co-advised with Prof. Chanxing Ma. (2022 - Present).

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## MS Student Advising

1. **Jiahui Shao.** MS Student at Department of Biostatistics, SPHHP, University at Buffalo SUNY. (2021 - 2022).

## Undergraduate Project Mentoring

1. **Ethan Ashby.** BS student at Pomona College. Project done at the Quantitative Sciences Undergraduate Research Experience (QSURE) program, Department of Epidemiology & Biostatistics, Memorial Sloan-Kettering Cancer Center, New York, NY USA. Co-mentored with Dr. Ronglai Shen. (Summer 2020).
2. **Victoria Tripodi.** BS student at University at Buffalo, SUNY. Project done at the BERD Winter Institute for Biostatistics 2021, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2021).
3. **Jason Caballes.** BS student at University at Buffalo, SUNY. Project done at the BERD Winter Institute for Biostatistics 2021, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2021).
4. **Alexandra Vool.** BS student at University at Buffalo, SUNY. Project done at the BERD Winter Institute for Biostatistics 2021, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2021).
5. **Tinh Ho.** BS student at University at Buffalo, SUNY. Project done at the BERD Winter Institute for Biostatistics 2022, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2022).
6. **Michelle Gagliardo.** BS student at SUNY Geneseo. Project done at the BERD Winter Institute for Biostatistics 2022, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2022).
7. **Andrew Mosbo.** BS student at SUNY Geneseo. Project done at the BERD Winter Institute for Biostatistics 2022, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Winter 2022).

## Advising on Graduate Committees

1. **Sean Knipe.** MS Student, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Spring 2021).
2. **Jiefei Wang.** PhD Student, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Spring 2022).
3. **Yihao Tan.** MA Student, Department of Biostatistics, SPHHP, University at Buffalo SUNY. (Spring 2022).

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## RESEARCH PRESENTATIONS

### Invited Presentations (Presenter's name in bold)

1. **Chakraborty, S.**, Su, Z. A Comprehensive Bayesian Approach to Envelope Models. Invited Presentation given (virtually) at EcoSta 2022 Hybrid Conference. Ryouko University, Japan, June, 2022.
2. **Chakraborty, S.**, Guan, Z, Martin, A., Begg C B, and Shen R. Mining mutation contexts across the cancer genome to map tumor site of origin. Invited Oral Presentation given at UPSTAT-2022 Conference. University at Buffalo, Buffalo, NY, May 2022.
3. **Chakraborty, S.** Statistical Learning in Large-Scale Genome-Driven Cancer Characterization Problems. Invited Oral Presentation given (virtually) at IAD DAYS Conference. University at Buffalo, Buffalo, NY, May 2022.
4. **Chakraborty S**, Su, Z. A Comprehensive Bayesian Framework for Envelope Models. Invited topic contributed oral presentation given (virtually) at Joint Statistical Meeting Virtual Conference, USA, August 2021.
5. **Chakraborty, S.**, Guan, Z, Arora, A., Ecker, B., Martin, A., Jarnagin, W, Gonen M, Seier K, Begg C B, and Shen R. Mining mutation contexts across the cancer genome to map tumor site of origin with applications in Ampullary Adenocarcinoma. Invited Oral Presentation given at University at Buffalo Cancer Research Consortium Seminar Series, Buffalo, NY, July 2021.
6. **Chakraborty, S.**, Begg C B, and Shen R. Research Overview: Mining somatic mutations across the cancer genome to map tumor site of origin. Invited Oral Presentation given at SDOH: Methods for Identification & impact of treatment of opioid users. University at Buffalo, SUNY, USA, July 2021.
7. **Chakraborty, S.**, Su, Z. A Comprehensive Bayesian Framework for Envelope Models. Invited oral presentation given (virtually) at CFE-CMStatistics conference, London, UK, December 2020.
8. **Chakraborty S**, Arora, A, Shen R, Begg C. B. Using Somatic Variant Richness to Mine Signals from Rare Variants & Using the “Hidden” genome. Oral presentation given at Epidemiology and Biostatistics departmental seminar series, Memorial Sloan Kettering Cancer, New York, NY, January 2020.
9. Chakraborty S, Arora, A, Begg C. B, **Shen, R.** Using Somatic Variant Richness to Mine Signals from Rare Variants in the Cancer Genome. Invited oral presentation given at the Joint Statistical Meetings, Denver, CO, USA, August 2019.
10. Chakraborty, S., **Su, Z.** A Comprehensive Bayesian Framework for Envelope Models. Invited oral presentation given at EcoSta conference, Taichung, Taiwan, 2019.
11. **Chakraborty S**, Shen R., Begg C. B. Estimating Somatic Variant Richness in the Cancer Genome. Invited oral presentation given at the Epidemiology & Biostatistics Departmental Seminar Series, MSKCC, New York, NY, 2019.

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12. **Chakraborty, S.**, Khare, K. Convergence properties of Gibbs samplers for Bayesian probit regression with proper priors. Invited oral Presentation given at the Conference of Indian Statistical Association, Hyderabad, India, 2017.

### Contributed Presentations (Presenter's name in bold)

13. **Chakraborty S**, Arora, A, Shen R, Begg C. B. Using Somatic Variant Richness to Mine Signals from Rare Variants in the Cancer Genome. Poster presentation given at the annual postdoc symposium at the Memorial Sloan-Kettering Cancer Center, New York, NY, 2019.
14. **Lee M**, Chakraborty S, Su Z. A Bayesian quantile envelope regression model. Poster Presentation given at the Joint Statistical Meetings, Denver, CO, 2019.
15. Awan O, Scott K, **Vaziri S**, Chakraborty S, Kshitij K, Rahman M. Re- imbursement Patterns for Neurosurgery: Analysis of the NERVES Survey Results from 2011-2016. Poster presented at the University of Florida Research Symposium, 2019.
16. **Vaziri S**, Scott K, Awan O, Chakraborty S, Kshitij K, Kubilis P, Hoh D. Risk Calculators in Neurosurgery: Identifying the High Cost Patient. Oral Presentation at the University of Florida Neurosurgical Research Symposium in Gainesville, FL, 2019.
17. **Vaziri S**, Henson C, Scott K, Awan O, Chakraborty S, Kshitij K, Kubilis P, Hoh D. Predictors of Cost in Patients Undergoing Lumbar Spine Surgery. Oral Presentation given at the CNS Spine Section National Meeting in Miami, FL, 2019.
18. **Vaziri S**, Awan O, Scott K, Chakraborty S, Khare, K., Rahman M. Re- imbursement Patterns for Neurosurgery: Analysis of the NERVES Survey Results from 2011-2016. Oral Presentation given at the AANS in San Diego, CA 2019.
19. **Chakraborty, S.**, Khare, K. Consistent estimation of the spectrum of trace class data augmentation algorithms. Contributed oral presentation given at ENAR, Atlanta, GA, 2018.
20. **Chakraborty, S.**, Wong, S. W. BAMBI: An R package for bivariate angular mixture models. Contributed oral presentation given at ENAR, Washington, D.C., 2017.
21. **Chakraborty, S.**, Khare, K. Consistent estimation of the spectrum of trace class data augmentation algorithms. Contributed oral presentation given at the Joint Statistical Meetings, Baltimore, MD, 2017.

## COURSE TEACHING

1. **STA 545/EAS 506/CDA 541: Statistical Data Mining I (Graduate Level).** Presents statistical models for data mining, inference and prediction. Topics covered: linear and logistic regression, shrinkage, lasso, partial least squares, tree-based methods, model assessment and selection, model inference and averaging, neural networks, and R for data mining. *Department of Biostatistics, University at Buffalo, SUNY. Fall 2022.*

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2. **STA 521: Introduction to Theoretical Statistics I (Graduate Level).** Provides the background in probability and distribution theory required for theoretical statistics. Topics covered: axioms of probability theory, independence, conditional probability, random variables, discrete and continuous probability distributions, functions of random variables, moment generating functions, laws of large numbers and central limit theorem. *Department of Biostatistics, University at Buffalo, SUNY. Fall 2020.*
3. **STA 522: Introduction to Theoretical Statistics II (Graduate Level).** Introduces principles of statistical inference. Topics include classical methods of estimation, tests of significance, interval estimates, Neyman-Pearson theory of testing hypotheses, maximum likelihood estimation and Bayesian statistics. *Department of Biostatistics, University at Buffalo, SUNY. Spring 2021, Spring 2022.*
4. **STA 4321/STA 5325: Introduction to Probability/Fundamentals of Probability (Advanced Undergraduate Level).** Introduces probability and distribution theory required for mathematical statistics. Topics covered: axioms of probability theory, independence, conditional probability, random variables, discrete and continuous probability distributions, moment generating functions, functions of random variables, and multivariate probability. *Department of Statistics, University of Florida. Fall 2017.*

## WORKSHOP TEACHING/INSTRUCTING

1. BERD Research-on-a-Napkin Consulting: quick (bio-)statistical consultation to researchers interested in submitting a funding application for selected pilot RFAs. *June 2021, June 2022.*
2. Classification Methods for Data Mining. CTSI Workshop: BERD Data Mining in Health Sciences. *Clinical and Translational Science Institute, University at Buffalo, SUNY. April 2022.*
3. Statistics in the Era of Massive Data. BERD Faculty Lecture. BERD Winter Institute for Biostatistics 2022. *University at Buffalo, SUNY. January 2022.*
4. An Introduction to Hidden Genome Modeling with R package `hidenclassifier`. *Virtual Workshop given at Department of Biostatistics & Epidemiology, Memorial Sloan-Kettering Cancer Center, New York. November 2020.*

## PROFESSIONAL SERVICES

2022-Present **Organizer of Departmental Seminar Series**, Department of Biostatistics, SPHHP, University at Buffalo, SUNY.

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- 2022 **Member, Core Organizing Committee and IT Committe**, UP-STAT 2022 Conference: Upstate NY Chapter of American Statistical Association, May 2-4, Jacobs School of Medicine, University at Buffalo SUNY, Buffalo, NY, USA.
- 2022 **Judge, BERD High School Poster Contest**, Department of Biostatistics, School of Public Health and Health Professions (SPHHP), University at Buffalo, SUNY.
- 2022 **Invited Conference Session Organizer**, Session Title: Recent Advances in Computational Bayesian Methods I & II, UP-STAT 2022 Conference, May 2-4, University at Buffalo, NY, USA.
- 2020 **Peer Reviewer of Academic Grant Proposals**, Reviewed Grant at National Science Foundation.
- 2020-Present **Peer Reviewer of Scholarly Journal Articles**, at Biometrics, Journal of the Royal Statistical Society (Series B), Journal of the American Statistical Association, The American Statistician, Electronic Journal of Statistics, The R Journal, Frontiers in Oncology, and Statistics in Medicine.

## PROFESSIONAL EXPERIENCE

- 2017-18 **Graduate Research Assistant**, *Department of Statistics, University of Florida*, Gainesville, FL, USA.
- 2017 **Graduate Course Instructor**, *Department of Statistics, University of Florida*, Gainesville, FL, USA.
- 2014-15 **Graduate Teaching Assistant**, *Department of Statistics, University of Florida*, Gainesville, FL, USA.
- 2013-14, 2015-16 **Graduate School Fellow**, *Department of Statistics, University of Florida*, Gainesville, FL, USA.

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