

Shubhadeep Chakraborty

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EDUCATION AND EMPLOYMENT

- Postdoctoral Scholar**, UNIVERSITY OF WASHINGTON, SEATTLE, WA, USA 2020 -
Advisor : Dr. Ali Shojaie
- Ph.D in Statistics**, TEXAS A&M UNIVERSITY, COLLEGE STATION, TX, USA 2015 - 2020
Advisor : Dr. Xianyang Zhang
GPA : 4.0
- M.Stat**, INDIAN STATISTICAL INSTITUTE, KOLKATA, INDIA 2013 - 2015
Specialization : Biostatistics & Data Analysis
Aggregate Marks : 74.95 %
- B.Sc in Statistics**, R.K.MISSION RESIDENTIAL COLLEGE, NARENDRAPUR (affiliated to University of Calcutta, India) 2010 - 2013
Aggregate Marks : 89.375 %

RESEARCH INTERESTS

- Nonparametric Statistics
- High-Dimensional Statistics
- Change-Point Detection
- Causal Inference

DISTINGUISHED ACADEMIC AWARDS

- **Humboldt Research Fellowship for Postdoctoral Researchers** from the ALEXANDER VON HUMBOLDT FOUNDATION, Germany, to carry out long-term research at a research institution in Germany. (Declined) 2020
- **Distinguished Graduate Student Award for Excellence in Teaching** from the ASSOCIATION OF FORMER STUDENTS (AFS), Texas A&M University, College Station, TX, USA, in recognition of outstanding academic record and contributions in teaching. 2019
- **Sabyasachi Roy Memorial Gold Medal Award** from INDIAN STATISTICAL INSTITUTE, Kolkata, India, for the best project work of the M.Stat program (2013-2015). 2015

OTHER ACADEMIC AWARDS

- **Dr. Joseph Newton Graduate Student Service Award** from COLLEGE OF SCIENCE, Texas A&M University, College Station, TX, USA, in recognition of distinguished service to Texas A&M University and exemplary academic performance. 2018
- **Anant M. Kshirsagar Endowed Fellowship in Statistics** from the DEPARTMENT OF STATISTICS, TEXAS A&M UNIVERSITY at the JOINT STATISTICAL MEETINGS (JSM) at Baltimore, MD, USA, in recognition of outstanding academic performance. 2017
- **Prof. Anil Bhattacharya Memorial Best Student of Statistics Award** from R.K.MISSION RESIDENTIAL COLLEGE, NARENDRAPUR, India. 2013

STUDENT PRESENTATION AWARDS

- **R. L. Anderson Student Poster Award** from SOUTHERN REGIONAL COUNCIL ON STATISTICS (SRCOS) at SRCOS Summer Research Conference Student Poster Competition, Carrolton, KY, USA. 2019
- **Best Presentation Award** at the 2019 ANNUAL MEETING of the STATISTICAL SOCIETY OF CANADA (SSC) at University of Calgary, Calgary, AB, Canada. 2019
- **3rd Prize** in the SOUTHEASTERN TEXAS CHAPTER OF THE AMERICAN STATISTICAL ASSOCIATION (SETCASA) Poster Competition, College Station, TX, USA. 2019
- **R. L. Anderson Student Poster Award** from SOUTHERN REGIONAL COUNCIL ON STATISTICS (SRCOS) at SRCOS Summer Research Conference Student Poster Competition, Virginia Beach, VA, USA. 2018
- **Gold Prize** in SOUTHEASTERN TEXAS CHAPTER OF THE AMERICAN STATISTICAL ASSOCIATION (SETCASA) Poster Competition, College Station, TX, USA. 2017

TRAVEL AWARDS

- **Boyd Harshbarger Student Travel Award** from SOUTHERN REGIONAL COUNCIL ON STATISTICS (SRCOS) for attending the SRCOS Summer Research Conference at Carrolton, KY, USA. 2019
- **Boyd Harshbarger Student Travel Award** from SOUTHERN REGIONAL COUNCIL ON STATISTICS (SRCOS) for attending the SRCOS Summer Research Conference at Virginia Beach, VA, USA. 2018
- **George Bush Presidential Library Foundation & OGAPS Travel Grant** from TEXAS A&M UNIVERSITY, USA, for attending the 4th CONFERENCE OF THE INTERNATIONAL SOCIETY FOR NONPARAMETRIC STATISTICS (ISNPS) at Salerno, Italy. 2018

SCHOLARSHIPS, FELLOWSHIPS & OTHER ACHIEVEMENTS

- **James Goodlett Fellowship** from TEXAS A&M UNIVERSITY, USA. 2015-16
- **OGAPS Deans Doctoral Fellowship** from TEXAS A&M UNIVERSITY, USA. 2015-16
- **Debesh-Kamal Scholarship** from RAMAKRISHNA MISSION INSTITUTE OF CULTURE, Kolkata, India (awarded to deserving candidates for the purpose of higher education/ research abroad). 2015
- Obtained **All India Rank 2** in the Joint Admission Test (JAM) conducted by the Indian Institute of Technology (IIT) for the Masters program in Statistics. 2013
- **INSPIRE Scholarship** from the MINISTRY OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF INDIA, for being among the top 1% students of the nation in the 12th standard exam). 2010
- **Ranked 13th** in the Higher Secondary (12th standard) examination among nearly 5,00,000 candidates in the state of West Bengal, India. 2015-16

PUBLICATIONS (PUBLISHED/ACCEPTED/SUBMITTED)

- **Chakraborty, S.**, and **Zhang, X.** (2020). "A New Framework for Distance and Kernel-based Metrics in High Dimensions". Under review at *Annals of Statistics*. (arXiv)
- **Chakraborty, S.**, and **Zhang, X.** (2019). "Distance Metrics for Measuring Joint Dependence with Application to Causal Inference", *Journal of the American Statistical Association, Theory and Methods*, 114(528) 1638-1650. (link).

PUBLICATIONS (IN PREPARATION)

- **Chakraborty, S.**, and **Zhang, X.**, “A Nonparametric Methodology for Multiple Change-Point Detection for High-Dimensional Data”, in preparation.
- **Chakraborty, S.**, **Roy, A.** and **Zhang, X.**, “Fast Computational Algorithms for Large-scale Independence testing”, in preparation.

INVITED PRESENTATIONS

- **Invited Talk** at the Department of Biostatistics, University of Washington at Seattle, WA, USA. Feb, 2020
- **Invited Talk**, at the Department of Statistical Sciences, University of Padova, Padova, Italy. Sep, 2019
- **Invited Poster Presentation**, at the 4th WORKSHOP ON GOODNESS-OF-FIT, CHANGE-POINT AND RELATED PROBLEMS (GOF-CP) at University of Trento, Trento, Italy. Sep, 2019
- **Invited Talk**, at the JOINT STATISTICAL MEETINGS (JSM) at Denver, CO, USA. Aug, 2019
- **Invited Talk**, at the 4th CONFERENCE OF THE INTERNATIONAL SOCIETY FOR Nonparametric Statistics (ISNPS) at Salerno, Italy. June, 2018

UPCOMING INVITED PRESENTATIONS

- **Invited Talk** at the 13th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2020) at London, UK. Dec, 2020
- **Invited Talk** at the 24th International Conference on Computational Statistics (COMPSTAT 2021) at Bologna, Italy. Aug, 2021

OTHER PRESENTATIONS (SELECTED)

- **Student Poster Competition**, at the SOUTHERN REGIONAL COUNCIL ON Statistics (SRCOS) Summer Research Conference at Carrolton, KY, USA. June, 2019
- **Student Paper Award Talk**, at the 2019 ANNUAL MEETING of the STATISTICAL SOCIETY OF CANADA (SSC) at University of Calgary, Calgary, AB, Canada. May, 2019
- **Student Paper Award Talk**, at the 7th ANNUAL CANADIAN STATISTICS STUDENT CONFERENCE (CSSC) at University of Calgary, Calgary, AB, Canada. May, 2019
- **Student Poster Competition** of the SOUTHEASTERN TEXAS CHAPTER OF THE AMERICAN STATISTICAL ASSOCIATION (SETCASA) at Texas A&M University, College Station, TX, USA. April, 2019
- **Student Poster Competition**, at the SOUTHERN REGIONAL COUNCIL ON STATISTICS (SRCOS) Summer Research Conference at Virginia Beach, VA, USA. June, 2018
- **Student Poster Competition**, at the 2017 conference of the INTERNATIONAL INDIAN STATISTICAL ASSOCIATION (IISA) at Hyderabad, India. Dec, 2017
- **Contributed Talk**, at the JOINT STATISTICAL MEETINGS (JSM) at Baltimore, MD, USA. Aug, 2017
- **Student Poster Competition** of the SOUTHEASTERN TEXAS CHAPTER OF THE AMERICAN STATISTICAL ASSOCIATION (SETCASA) at Texas A&M University, College Station, TX, USA. April, 2017

TEACHING EXPERIENCE

- Graduate level
 - **Metric Spaces, Linear Algebra and Regression Analysis** in BOOTCAMP Summer 2019
2019 (offered for the incoming PhD students of Fall 2019), Department of
Statistics, Texas A&M University.
 - **Metric Spaces, Linear Algebra and Regression Analysis** in BOOTCAMP Summer 2018
2018 (offered for the incoming PhD students of Fall 2018), Department of
Statistics, Texas A&M University.
- Undergraduate level
 - **STAT 211 (Principles of Statistics I)**, Department of Statistics, Texas A&M Fall 2019
A&M University. 95 students enrolled with class evaluation of 4.5/5.
 - **STAT 303 (Statistical Methods)**, Department of Statistics, Texas A&M Spring 2018
University. 97 students enrolled with class evaluation of 3.7/5.
 - **STAT 211 (Principles of Statistics I)**, Department of Statistics, Texas A&M Fall 2017
A&M University. 58 students enrolled with class evaluation of 4.0/5.
 - **STAT 303 (Statistical Methods)**, Department of Statistics, Texas A&M Summer 2017
University. 45 students enrolled with class evaluation of 4.1/5.

PROFESSIONAL ACTIVITIES

- **Reviewer** for *Scandinavian Journal of Statistics*, *Journal of Nonparametric Statistics*,
Journal of Statistical Computation and Simulation, *Journal of Multivariate Analysis*,
Open Statistics, *The Annals of Statistics*, *Statistics in Medicine*, *Electronic Journal of
Statistics*, *The Canadian Journal of Statistics*, *Journal of the Royal Statistical Society
(Series B)*.
- **Organized**
 - an invited paper session on “*Recent Developments in High-Dimensional* 2020
Statistics” at the 24TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL
STATISTICS (COMPSTAT 2021) at Bologna, Italy.
 - an invited paper session (upon invitation) on “*Recent Advancements in* 2020
High-Dimensional Statistics” at the 13TH INTERNATIONAL CONFERENCE OF
THE ERCIM WG ON COMPUTATIONAL AND METHODOLOGICAL STATISTICS
(CMSTATISTICS 2020) at London, UK.
 - an invited paper session on “*Recent Advancements in Distance and Kernel* 2019
Based Metrics and Related Learning Methods” at the JOINT STATISTICAL
MEETINGS (JSM) at Denver, CO, USA.
 - an invited paper session (upon invitation) on “*Recent Developments in Dependence* 2018
Metrics and Their Applications” at the 4th CONFERENCE OF THE INTERNATIONAL
SOCIETY FOR NONPARAMETRIC STATISTICS (ISNPS 2018) at Salerno, Italy.
 - ‘STATCAFE’, weekly departmental student seminars at the Department of 2017-18
Statistics, Texas A&M University, USA.
- Served as the **Session Chair** of an invited paper session on “*Recent Developments in* 2018
Dependence Metrics and Their Applications” at the 4th CONFERENCE OF THE
INTERNATIONAL SOCIETY FOR NONPARAMETRIC STATISTICS (ISNPS) at Salerno, Italy.

POSITIONS OF RESPONSIBILITY HELD

- **President** of the STATISTICS GRADUATE STUDENT ASSOCIATION (SGSA),
Department of Statistics, Texas A&M University, USA. 2019-20
- **Founding President** of TEXAS A&M UNIVERSITY ASA STUDENT CHAPTER, USA. 2019
- **Vice President** of the STATISTICS GRADUATE STUDENT ASSOCIATION (SGSA),
Department of Statistics, Texas A&M University, USA. 2018-19
- **Secretary and Social Chair** of the STATISTICS GRADUATE STUDENT ASSOCIATION
(SGSA), Department of Statistics, Texas A&M University, USA. 2017-18
- **Delegate** of the Department of Statistics at the GRADUATE AND PROFESSIONAL
STUDENT COUNCIL (GPSC), Texas A&M University, USA. 2016-17
- *Member* of the QUALITY OF LIFE COMMITTEE (an Internal Standing Committee)
at the GRADUATE AND PROFESSIONAL STUDENT COUNCIL (GPSC), Texas A&M
University, USA. 2016-17

TECHNICAL SKILLS

- **Statistical Softwares** : R with parallel computing
- **Others** : \LaTeX , MS-Office