

Rajesh Ranjan Nandy, Ph.D.

Associate Professor of Biostatistics (tenured)

Department of Public Health

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Updated July 2026

I. EDUCATION

2001	Ph.D. Mathematics, Department of Mathematics, University of Washington
1994	M.Stat. Statistics, Indian Statistical Institute, Calcutta, India
1992	B.Stat. Statistics, Indian Statistical Institute, Calcutta, India

II. PROFESSIONAL EXPERIENCE

2015-current	Associate Professor of Biostatistics, Department of Population & Community Health, College of Public Health, University of North Texas Health Science Center
2023-2024	Interim Chair, Department of Population & Community Health, College of Public Health, University of North Texas Health Science Center
2013-2015	Assistant Professor, Departments of Biostatistics, School of Public Health, University of North Texas Health Science Center
2005 - 2013	Assistant Professor, Departments of Biostatistics and Psychology, University of California, Los Angeles.
2001-2005	Senior Fellow, Department of Radiology, University of Washington.

III. HONORS AND AWARDS

- P. C. Mahalanobis International Symposium on Statistics Gold Medal, Indian Statistical Institute. 1993-94.
- Honorary subscription to Sanhkyā, the Indian Journal of Statistics. 1994-1995
- Human Brain Mapping Travel Award. 2002-2003
- International Society for Magnetic Resonance in Medicine Travel Award. 2002- 2004.
- Inducted to Delta Omega ($\Delta\Omega$) honorary society for studies in public health. 2023

IV. MEDIA COVERAGE

A. Broadcast Media

1. **NBC national nightly news** - More retailers impose mask mandates across country
2. **ABC (Australian Broadcasting Corporation)** international news - Coronavirus cases soar in Texas as US enters one of its busiest travel
3. **ABC (Australian Broadcasting Corporation)** international news - Vaccine rollout in USA
4. **KERA NEWS (NPR)** - Report: Tarrant County Social Distancing Measures Have Slowed COVID-19 Spread
5. **ABC 8 DFW (WFAA)** - Tarrant County sees sharp uptick in COVID-19 hospitalizations

6. **ABC 8 DFW (WFAA)** - Study: Mask mandates have been effective in slowing down COVID-19 in Denton, Tarrant, Dallas counties
7. **ABC 8 DFW (WFAA)** - 'Life is not back to normal': Thanksgiving warnings as COVID-19 cases rise
8. **ABC 8 DFW (WFAA)** - Tarrant County Health Director recommends schools return to all-virtual learning
9. **ABC 8 DFW (WFAA)** - Three bowl games scheduled in three days in North Texas as COVID-19 numbers rise
10. **CBS 11 DFW (KTVT)** - Stay-At-Home-Orders Effective In Tarrant County, But Coming Weeks Critical CBS DFW
11. **CBS 11 DFW (KTVT)** - UNT Researchers: Mask Mandates Helping Slow Spread Of Coronavirus
12. **CBS 11 DFW (KTVT)** - North Texas Researchers Track Data To See If Thanksgiving Holiday Was A COVID-19 Superspreader
13. **CBS 11 DFW (KTVT)** - Texas Health Professionals Keeping An Eye On New Strain Of COVID-19 Now In The US
14. **CBS 11 DFW (KTVT)** - Experts To Look At Next 2 Weeks To See If Residents Heeded Warnings On Thanksgiving Gatherings
15. **FOX 4 DFW (KDFW)** - Tarrant County reports 820 new COVID-19 cases, 2 deaths
16. **FOX 4 DFW (KDFW)** - With 13 new deaths reported Friday, Dallas County reports its deadliest week from COVID-19
17. **FOX 4 DFW (KDFW)** - Mask mandate successfully slowing spread of COVID-19 in North Texas, new report says
18. **FOX 4 DFW (KDFW)** - Dallas County sets daily record for COVID-19 deaths, 36
19. **FOX 4 DFW (KDFW)** - More evidence shows masks continue slowing spread of COVID-19 in North Texas, report says
20. **FOX 4 DFW (KDFW)** - Dallas, Tarrant counties report record high COVID-19 hospitalizations
21. **FOX 4 DFW (KDFW)** - COVID-19 hospitalizations across North Texas region reach 13.96 percent
22. **FOX 4 DFW (KDFW)** - North Texas officials still dealing with backlogged reporting of COVID-19 cases
23. **FOX 4 DFW (KDFW)** - Who will get a COVID-19 vaccine first in North Texas?
24. **FOX 4 DFW (KDFW)** - North Texas health experts warn against indoor gatherings for Super Bowl
25. **NBC 5 DFW (KXAS)** - Stay-At-Home Orders Were Effective, Next Few Weeks Will Be 'Critical,' Expert Says
26. **NBC 5 DFW (KXAS)** - Tarrant County Adds 732 COVID-19 Cases Thursday, 2 New Deaths
27. **NBC 5 DFW (KXAS)** - Tarrant County Tops 60,000 COVID-19 Cases Tuesday, Adds 6 New Deaths, 500 Cases
28. **NBC 5 DFW (KXAS)** - Tarrant County Adds 633 COVID-19 Cases Wednesday, 1 New Death
29. **NBC 5 DFW (KXAS)** - North Texas Could Reach Herd Immunity by Mid-June, Researchers Say
30. **NBC 5 DFW (KXAS)** - Will Herd Immunity Be Delayed by Drops in COVID-19 Vaccine Registrations?
31. **NBC 5 DFW (KXAS)** - Statisticians Look Toward Second Wave of COVID-19
32. **NBC 5 DFW (KXAS)** - Denton Passes Mask Ordinance as State, Health Experts Monitor COVID-19 Surge
33. **NBC Austin (KXAN)** - University of North Texas study: mask orders help slow spread of COVID-19
34. **KRLD News Radio 1080** - UNT Health Study Shows Face Mask Benefits

B. Print and Digital Media

1. **The Telegraph UK** - Police knock doors in Texas quarantine drive as US heads for third wave
2. **Wall Street Journal** - Weeks After Texas Reopened, Health Experts Look for Impact
3. **Wall Street Journal** - Memorial Day Covid-19 Data Will Likely Mark Pandemic Milestone
4. **The Daily Beast** - Texas Gov. Moves to Stop COVID-19 but It's Already Out of Control
5. **Dallas Morning News** - We asked 3 Texas doctors: Should you send your kids back to school this fall?

6. **Dallas Morning News** - Experts warned of a second wave of coronavirus cases as reopenings swept Texas in May
7. **Dallas Morning News** - 5-year-old is among latest coronavirus victims as Dallas County again reports case total under 750
8. **Dallas Morning News** - Are masks enough in Dallas-Fort Worth to avoid another shutdown? A new report says yes
9. **Dallas Morning News** - Mask study Gov. Abbott cites as reason for no COVID-19 shutdown has limits, author says
10. **Dallas Morning News** - Report projects Tarrant County COVID-19 hospitalizations could soon outpace Dallas County's
11. **Dallas Morning News** - Uptick in COVID-19 cases forces last-minute cancellation of Plano health fair this weekend
12. **Dallas Morning News** - To avoid 'completely stressed out' hospitals, North Texas should close bars, gyms, report says
13. **Dallas Morning News** - Coronavirus numbers are rising, so is North Texas at the start of a fall COVID-19 surge?
14. **Dallas Morning News** - Richardson ISD schools to remain open amid heightened COVID-19 risk level, superintendent says
15. **Dallas Observer** - New COVID Cases Soar While Deaths Slow, but Don't Celebrate Just Yet
16. **Dallas Observer** - Mask Mandates Are Working to Curb COVID, New Report Shows
17. **Dallas Observer** - Dallas County Will See Spike in COVID-19 Hospitalizations, Public Health Experts Warn
18. **Dallas Observer** - Dallas County Adds 5,000 New COVID-19 Cases to July's Count
19. **Dallas Observer** - High Hospitalization Rates in North Texas May Prompt Greater COVID-19 Restrictions
20. **Dallas Observer** - Cases are Down in North Texas, but Public Health Experts Warn Against Letting Up
21. **Dallas Observer** - Health Experts Cautiously Optimistic Following Decrease in COVID-19 Rates
22. **D Magazine** - For the First Day Since July 3, New Coronavirus Infections Fall Below 1,000
23. **D Magazine** - As Restrictions Lift, DFW is Still Staying Home D Magazine
24. **Fort Worth Star-Telegram** - Fort Worth area is state's most populated to not require masks. Here's what leaders say
25. **Fort Worth Star-Telegram** - Texas adds more than 8,000 new COVID cases and sees record hospitalizations Wednesday Fort Worth Star-Telegram Newspaper and web report Summer 2020
26. **Fort Worth Star-Telegram** - Here's what swayed Fort Worth and Tarrant County to require COVID-19 masks
27. **Fort Worth Star-Telegram** - Without mask mandate, North Texas COVID 'mini surge' likely to continue, scientist says
28. **Fort Worth Star-Telegram** - Fort Worth, Tarrant County are worse off than Dallas on COVID. Where are our leaders?
29. **Fort Worth Star-Telegram** - Are tougher COVID restrictions needed? Other cities think so, but not Fort Worth area
30. **Fort Worth Star-Telegram** - Restrictions slowed COVID-19 in Fort Worth, but loosening may lead to surge, study finds
31. **Fort Worth Star-Telegram** - Coronavirus cases on the rise in Texas. Public response will determine where it's headed
32. **Fort Worth Star-Telegram** - Fort Worth-area hospitals must add beds soon if COVID cases don't slow, expert warns
33. **Fort Worth Star-Telegram** - As COVID surges, Abbott extends ban on elective surgeries to over 100 Texas counties
34. **Fort Worth Star-Telegram** - After 79 days in hospital fighting COVID, Fort Worth-area woman gets 'second chance'

35. **Fort Worth Star-Telegram** - Tarrant County's mask mandate helped stabilize growth of new COVID cases, expert says
36. **Fort Worth Star-Telegram** - Tarrant hospitals will be full within 30 days unless we reverse COVID trend, report says
37. **Fort Worth Star-Telegram** - Texas COVID-19 hospitalizations approach record high
38. **Fort Worth Star-Telegram** - Texas doctors await Labor Day, school, flu season with mixed hope and dread amid COVID
39. **Fort Worth Star-Telegram** - Fort Worth has COVID plan for National Finals Rodeo. Experts say infections are likely
40. **Fort Worth Star-Telegram** - Texas' COVID testing has dropped as positivity rate climbs, giving virus 'upper hand'
41. **Fort Worth Star-Telegram** - Health experts 'cautiously optimistic' by Texas' COVID declines. School may change that
42. **Fort Worth Star-Telegram** - As Fort Worth hospitals fill up, public encouraged to celebrate New Year holiday safely
43. **Fort Worth Star-Telegram** - When will North Texas reach COVID-19 herd immunity? Sooner than you might think
44. **Fort Worth Star-Telegram** - Dire COVID predictions about end of mask mandate were way off. Let's be glad for that
45. **Fort Worth Star-Telegram** - North Texas bars must close, restaurants reduce capacity as COVID hospitalizations rise
46. **The Texas Tribune** - Mask mandate appears to be helping in Texas, but experts ask Gov. Greg Abbott not to rule out a shutdown
47. **The Texas Tribune** - Several Texas cities worry hospitals may run out of beds in two weeks or sooner
48. **The Texas Tribune** - The percentage of Texans testing positive for COVID-19 is dropping, but experts say the threat isn't over
49. **The Texas Tribune** - Why Texas' coronavirus data comes with caveats
50. **The Texas Tribune** - Analysis: It's hard to make good pandemic policy if the Texas data is fuzzy
51. **The Texas Tribune** - Texas officials change how the state reports positivity rate after testing backlogs skewed coronavirus data
52. **The Texas Tribune** - Coronavirus cases in Texas are soaring again. But this time Gov. Greg Abbott says no lockdown is coming.
53. **The Texas Tribune** - Five health experts on the state's coronavirus data backlog
54. **The Texas Tribune** - Texas coronavirus hospitalizations are at a two-month low, but school reopenings pose new risks
55. **The Texas Tribune** - Texas leaders hope rapid testing will restore normalcy in the pandemic. Health experts caution the tests have limitations.
56. **The Texas Tribune** - Share of positive COVID-19 cases as Texas reopened was higher than originally reported, new state calculations show

V. TEACHING EXPERIENCE

A. UNT Health Fort Worth — College of Public Health

BIOS 5300	Principles of Biostatistics – Fall 2013, 17, 18, 19
BIOS 6391	Introduction to Applied Bayesian Data Analysis – Spring 2014, Fall 2016, 17, 19
BIOS 5301	Foundations of Biostatistics – Fall 2014, 15
BIOS 6324	Survival Analysis – Fall 2014, 15, 16, 17, 20, 21, 22, 23, 24, 25, Spring 2019
BIOS 6320	Biostatistical Research and Consulting – Spring 2015, 16, 17
BIOS 5310	Intermediate Biostatistics – Spring 2021, 24, Summer 25 (Flipped classroom, hybrid learning)

BIOS 6322 Longitudinal Data Analysis – Spring 2018, 22, 23, 24
BIOS 6310 Statistical Inference – Fall 2018, 19

B. UNT Health — TCOM

- The Rural Osteopathic Medical Education (ROME) Biostatistics Course – Spring 2016

C. UNT Denton

BIOL 5130 Biostatistics I – Fall 2018
BIOL 5140 Biostatistics II – Spring 2019

D. Professional Presentations

- Offered a **half-day workshop** titled "Modeling and forecasting the spread of infectious disease using the statistical package R with COVID-19 as an example" at Clarkson University, April 2024
- Presenter at **National Institute of Mental Health Workshop** on Advanced Statistical Methods and Dynamic Data Visualizations for Mental Health Studies, Jun 2021
- Offered a **full-day workshop** on innovative analysis of functional MRI data at University of Maryland Baltimore County, Department of Mathematics and Statistics, Nov 2018
- Offered a **half-day workshop** titled "ROC methods in functional MRI using real data" at Clarkson University, October 2009

E. Supervision of Doctoral Students

Bradley McEvoy, Completed December 2008

Title of Dissertation: *Stochastic Bayesian Variable Selection in fMRI*.

Dr. McEvoy currently holds the position of **Director Biostatistics at Avidity Biosciences, Inc.**

Md Abdullah Mamun, Completed July 2019

Title of Dissertation: *A treatise on independent component analysis in the presence of noise - simulation and data applications in neuroimaging*.

Dr. Mamun currently holds the position of **Lead Biostatistician at Johnson & Johnson Ethicon**.

Srichand Jasti, Completed July 2019

Title of Dissertation: *Improving the efficiency of A and D optimal designs for dose response models*.

Dr. Jasti currently holds the position of **Head, Biostatistics, Programming & Data Management, Johnson & Johnson MedTech Surgery**.

Shanshan Wang, Completed May 2024

Title of Dissertation: *Associations between social determinants of health (SDOH) and cognition among Hispanics, non-Hispanic Blacks, and non-Hispanic Whites*.

Dr. Wang is a currently a **post-doctoral fellow at Emory University**. She has published **multiple research papers** in Tier 1 journals during her tenure as a doctoral student.

I have also served in several other doctoral committees of Ph.D. students.

F. Mentoring (Other)

- I have mentored multiple graduate students across the campus on their research projects including students at TCU and UNTHSC School of Medicine (currently TCU School of Medicine). Some of the students include Sujata Ojha, Nicholson Brant, Amber Hawkins, Cassidy Fretz, Ivette Avila, Sophie Wix, Adam Rosencrans, Sarah Lyon. I have also worked with doctoral students outside of UNT Health.

VI. SERVICE

A. University-Level Committee Memberships

- Research Conflict of Interest (RCOI) Committee (2014-current)
- Research Advisory Committee (2025-current)

- Faculty Senate (2014-23)
- Faculty Grievance (2021-23)
- Student Conduct Committee (as needed)

B. University Service (Other)

- I have been a facilitator for IPE (Interprofessional Education) events since 2021.

C. College of Public Health Committee Memberships

- Faculty Development & Research Committee (2022-current)
- Curriculum Committee (current)
- MS/PhD Committee (2019-current)
- Admissions Committee (2024-25)
- Scholarship & Awards Committee (2020-21)
- Tenure & Promotion Committee (2021-25)
- Program Director's Committee (2018-19)
- Research Committee (2014-15)
- Practice Experience Committee (2013-14)
- Faculty Search Committee (ad hoc, also served as chair)

D. Professional Service — Local, State, National, International

- Part of Dallas County Public Health Infectious Disease modeling team

E. Community Service / Involvement

- Volunteered on several projects for Trinity Habitat for Humanity
- Served as judge for Fort Worth ISD Elementary Science Research Fair

VII. SCHOLARLY ACTIVITY

A. Grants and Contracts — Funded (Current and Completed)

1R01 EY035510-01, Dimitrios (PI): *The Intimate Interplay Between Keratoconus, Sex Hormones, and the Anterior Pituitary.*

09/01/2023 – 01/31/2027 · NIH – NEI · \$1,180,635 · Role: **Co-Investigator**

5U19 AG078109-01, O'Bryant (PI): *The Health & Aging Brain Study - Health Disparities (HABS-HD).*

09-30-2022 – 08/31/2027 · NIH - NIA · \$83,356,121 · Role: **Co-Investigator**

2R01 EY028949-05A1, Dimitrios (PI): *A Novel Pathogenic Pathway for Diabetic Keratopathy.*

01/01/2023 – 12/31/2027 · NIH – NEI · \$1,905,750 · Role: **Co-Investigator**

5R01 AG070862-02, Barber (PI): *Epigenetic Risk Factors for AD Age at Onset and Health Disparities: HABLE Epigenetics Study.*

09/15/2021 – 09/14/2026 · NIH – NIA · \$2,851,922 · Role: **Co-Investigator**

R01 AG058533, O'Bryant (PI): *Health and Aging Brain Among Lation Elders (Hable-AT(N)) Study.*

08/01/2020 – 04/30/2025 · NIH – NIA · \$45,656,674 · Role: **Co-Investigator**

1R21 CA283524-01, Chaudhary (PI): *Emerging role of tumor-derived exosomes in immune modulation and breast cancer health disparity.*

08/01/2023 – 07/31/2025 · NIH – NEI · \$370,167 · Role: **Co-Investigator**

R01 AG071566, Cordes, Lowe (MPI): *Machine and deep learning for finding multimodal imaging biomarkers in prodromal AD.*

04/01/2021 – 03/31/2026 · NIA · \$500,000 · Role: **Sub-contract PI and consultant**

- U19 AG068054**, O'Bryant (PI): Alzheimer's Biomarker Consortium – Down Syndrome (ABC–DS).
09/01/2020 – 08/31/2025 · NIH – NIA · \$20,980,417 · Role: **Co-Investigator**
- CxPM RP00040**, O'Bryant (PI): *Blood-Based Screen for Detecting Neurological Diseases in Primary Settings*.
05/01/2020 – 05/31/2022 · Cx Precision Medicine · \$509,204 · Role: **Co-Investigator**
- R01 AG058537**, O'Bryant (PI): *An Alzheimer's Blood Test for Primary Care (ADPC Study)*.
04/01/2018 – 05/31/2021 · NIH – NIA · \$365,342 · Role: **Co-Investigator**
- U01 AG051214S2**, Shupf (PI): *Biomarkers of Alzheimer's Disease in Adults with Down Syndrome*.
09/01/2018 – 08/31/2020 · NIH – NI · Role: **Co-Investigator**
- 17958**, O'Bryant (PI): *Blood Biomarkers for Discriminating Amongst Neurodegenerative Diseases*.
09/01/2019 – 05/31/2020 · Michael J. Fox Foundation for Parkinson's Research · Role: **Co-Investigator**
- R56AG058533**, O'Bryant (PI): *Amyloid Burden among Mexican Americans*.
09/20/2018 – 08/30/2019 · NIH – NIA · Role: **Co-Investigator**
- Nandy (PI)**: *A Novel Nonparametric Threshold Free Method to Produce fMRI Activation Maps using Minimum Misclassification Rate*.
10/01/2017 – 03/31/2019 · The Center for Interdisciplinary Research and Consulting - Department of Math/Stat, UMBC · Role: **Principal Investigator**
- Nandy (PI)**: *Safety of Autologous Stem Cell Treatment for Acquired Hearing Loss in Children*.
04/04/2017-10/03/2017 · Florida Children's Hospital · Role: **Principal Investigator**
- R01 Cordes (PI)**: *Improving the Detection of Activation in High Resolution fMRI using Multivariate Methods*.
06/01/13-05/31/16 · NIH · Role: **sub-contract local PI / consultant**
- 1R21 AG026635-01A2** Cordes (PI): *Functional MRI and Alzheimer's Disease*.
9/01/07-6/30/09 · NIH · Role: **sub-contract local PI**
- R01 AG01338:11** Bookheimer (PI): *Combined fMRI, structural MRI, 18MPPF PET and APOE status to detect AD Risk*.
08/08/10-07/31/11 · NIH · Role: **Co-Investigator**
- 1 P50 MH077248-01** McCracken (PI): *CIDAR: Translational Research to Enhance Cognitive Control (TRECC)*.
9/01/06-/30/11 · NIMH · Role: **Co-Investigator**
- P01 AG025831-01** Small (PI): *Amyloid plaque and tangle imaging in aging and dementia*.
2/1/06-2/1/11 · NIH · Role: **Co-Investigator**
- P20 DA022539** London (PI): *Methamphetamine Abuse, Inhibitory Control: Implications for Treatment*.
9/30/06 – 4/30/07 · NIH · Role: **Co-Investigator**
- P50 33812-06**, Berninger (PI): *Learning Disabilities: Links to Schools and Biology*.
03/01/03 - 11/30/05 · NIH- NICHD · Role: **Co-Investigator**

B. Grants and Contracts — Pending

- PI: Mathew** - *NK cell immunotherapy targeting chemotherapeutic drug-induced overexpression of NK ligands in Ewing sarcoma cancer stem cells*
St. Baldrick's Foundation · Role: **Co-Investigator**
- PI: Karamichos** - *Translational effects of human saliva-derived extracellular vesicles (hSEVs) in healing corneal opacity and scarring*
NIH · Role: **Co-Investigator**

C. Invited Seminars

1. Local and State

- *Fall SMU Statistical Science Departmental Seminar*, Department of Statistical Science, Southern Methodist University, Oct 2019

- *USPHS Scientific and Training Symposium*, June 2018, Dallas
- *Fall Statistics Seminar*, Department of Mathematics and Statistics, UT Dallas, Oct 2014

2. National

- *JSM (Joint Statistical Meetings)* conference. Seattle, August 2015.
- *UC Riverside Statistics Colloquium*, May 2015
- *International Indian Statistical Association Conference*. Riverside, July 2014
- *Eastern North American Region International Biometric Society Spring Meeting*. Miami, March 2011
- *Human Brain Mapping conference*. San Francisco, June 2009.
- *2nd Probability and Statistics Day* at University of Maryland. Baltimore County, April 2008
- *Fall Statistics Seminar*, Department of Mathematics and Statistics. University of Maryland, Baltimore County, Oct 2007
- *Biotatistics Seminar*. Departments of Biostatistics and Epidemiology, University of Illinois, Chicago 2006
- *International Society for Magnetic Resonance in Medicine conference*. Miami, May 2005.

3. International

- **Keynote speaker** at *9th African International Conference on Statistics* (Nairobi, Kenya 2025 - postponed)
- *8th African International Conference on Statistics* (Hammamet, Tunisia, June 2024)
- *7th African International Conference on Statistics* (Marrakesh, Morocco, June 2023)
- **Keynote speaker** at International conference on statistics "*New age statistics for data science and artificial intelligence*", School of Mathematics, SVKM's Narsee Monjee Institute of Management Studies, Mumbai, India, Mar 2023
- *Annual Conference of the International Indian Statistical Association*, Dec 2022, Bengaluru, India
- Webinar - How mobility and mask can fight COVID-19 as evidenced by data, presented at *Acharya Jagadish Chandra Bose College*, Kolkata, India, Aug 2020
- **Keynote speaker** at *International Conference on Environmental and Medical Statistics*, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka, Jan 2020
- **Keynote speaker** at *6th African International Conference on Statistics* (Adama, Ethiopia, May 2019)
- *Annual Conference of the International Indian Statistical Association*, Dec 2017, Hyderabad, India
- Seminar Series, Applied Statistics Unit, *Indian Statistical Institute*, Dec 2017, Kolkata, India
- *4th Institute of Mathematical Statistic Asia Pacific Rim Meeting*, June 2016, Hong Kong
- *60th International Statistics Institute World Statistics Congress*, Rio de Janeiro, Brazil, July 2015
- Seminar Series, Department of Statistics, *University of Tampere*, Finland (2010)
- *7th International Triennial Calcutta Symposium on Probability and Statistics*, Kolkata, India, December 2009
- *International conference in Mathematics and applications* (ICMA - MU 2009), Mahidol University, Bangkok, Thailand
- *7th World Congress in Probability and Statistics*, National University, Singapore (2008)
- International Conference on Multivariate Statistical Methods in the 21st Century, Kolkata, India (2006)
- *International Society for Magnetic Resonance in Medicine conference*. Kyoto, Japan (May 2004)
- *International Society for Magnetic Resonance in Medicine conference*. Toronto, Canada (July 2003) – 2 talks

D. Publications (1,300+ citations)

1. Full-Length Papers — Published

1. **R. Nandy**, D. Cordes. Novel ROC-type method for testing the efficiency of multivariate statistical methods in fMRI, *Magnetic Resonance in Medicine*, 49:1152-1162 (2003).
2. **R. Nandy**, D. Cordes. Novel nonparametric approach to canonical correlation analysis with applications to low CNR functional MRI data, *Magnetic Resonance in Medicine*, 50: 354-365 (2003).
3. L. Stanberry, **R. Nandy**, D. Cordes. Cluster analysis of fMRI data using dendrogram sharpening. *Human Brain Mapping*, 20:201-219 (2003).
4. **R. Nandy**, D. Cordes. Improving the spatial specificity of canonical correlation analysis in fMRI. *Magnetic Resonance in Medicine*, 52:947-952 (2004).
5. **R. Nandy**, D. Cordes. New approaches to ROC methods in fMRI with real data using repeated trials. *Magnetic Resonance in Medicine*, 52:1424-1431 (2004).
6. L. Stanberry, T. Richards, V. W. Berninger, **R. Nandy**, E. Aylward, K. Maravilla, D. Cordes. Low Frequency Signal Changes Reflect Differences in Functional Connectivity between Good Readers and Dyslexics during Continuous Phoneme Mapping. *Magnetic Resonance Imaging*, 24:217-29 (2006).
7. D. Cordes, **R. Nandy**. Estimation of the intrinsic dimensionality of fMRI data. *Neuroimage*, 29:145-154 (2006).
8. **R. Nandy**, D. Cordes. A semi-parametric approach to estimate the family- wise error rate in fMRI using resting-state data. *Neuroimage*, 34:1562-1576 (2007).
9. D. Cordes, **R. Nandy**. Independent Component Analysis in the Presence of Noise in fMRI. *Magnetic Resonance Imaging*, 25:1237-48 (2007).
10. J. Sanz, K. Karlsgodt, C. Bearden, T. Van Erp, **R. Nandy**, K. Nuechterlein, T. Cannon. Regional Brain Physiology During Working Memory Processing and Clinical Presentation in Recent Onset Patients with Schizophrenia. *Psychiatry Research: Neuroimaging*, 173(3):177-82 (2009).
11. D. Cordes, M. Jin, T. Curran & **R. Nandy**. Optimizing the Performance of Local Canonical Correlation Analysis in fMRI using Spatial Constraints. *Human Brain Mapping*, 33:2611-26 (2012).
12. M. Jin, **R. Nandy**, T. Curran & D. Cordes. Extending Local Canonical Correlation Analysis to Handle Different Linear Contrasts for fMRI Data. *International Journal of Biomedical Imaging*, Article ID 574971 (2012).
13. M. Jin, V. Pelak, T. Curran, **R. Nandy**, & D. Cordes. A preliminary study of functional abnormalities in aMCI subjects during different episodic memory tasks. *Magnetic Resonance Imaging*, 30(4):459-70 (2012).
14. D. Cordes, M. Jin, T. Curran, & **R. Nandy**. The Smoothing Artifact of Spatially Constrained Canonical Correlation Analysis in Functional MRI. *International Journal of Biomedical Imaging*, Article ID 738283 (2012).
15. D. Cordes, G. Herzmann, **R. Nandy** & T. Curran. Optimization of Contrast Detection Power with Probabilistic Behavioral Information. *Neuroimage* (2012).
16. Jin, M., **R. Nandy**, & Cordes, D. Fast Constrained Canonical Correlation Analysis for fMRI. *Visualization, Image Processing and Computation in Biomedicine*, 10.1615 (2012).
17. B. Mcevoy*, **R. Nandy**, R. Tewari, Bayesian Model Selection Approach for Clinical Trial Safety Data Using An Ising Prior. *Biometrics*, 69:661-72 (2013)
18. D. Cordes, **R. Nandy**, S. Schafer, T. Wager. Characterization and Reduction of Cardiac- and Respiratory- Induced Noise as a Function of the Sampling Rate (TR) in fMRI. *Neuroimage*, 89:314-30 (2014).
19. S. Spohr, **R. Nandy**, D. Gandhiraj, S. Anne, A. Vemulapalli, S. Walters. Efficacy of SMS Text Message Interventions for Smoking Cessation: A Meta- Analysis. *Journal of Substance Abuse Treatment*, 2015 Sep;56:1-10.
20. K. Nandy, **R. Nandy**. A study of the performance of 2-stage adaptive optimal designs in a logistic dose-response model. *Communications in Statistics - Simulation and Computation*, 2015
21. **Nandy, R.** Extending The GLM for Analyzing fMRI Data to A Constrained Multivariate Regression Model. *Proceedings 60th ISI World Statistics Congress*, 2015.
22. K. Nandy, **R. Nandy**. Optimal Designs for a Logistic Dose-Response Model with Restricted Dose Levels. *Proceedings 60th ISI World Statistics Congress*, 2015.

23. K. Gopal, B. Thomas, **R. Nandy**, D. Mao, H. Lu. Potential Audiological and MRI Markers of Tinnitus. *Journal of the American Academy of Audiology* (2017).
24. X. Zhuang, Z. Yang, T. Curran, **R. Nandy**, D. Cordes. A family of locally constrained CCA models for detecting activation patterns in fMRI. *Neuroimage*, 149:63-84 (2017).
25. Z. Yang, X. Zhuang, K. Sreenivasan, V. Mishra, T. Curran, R. Byrd, **R. Nandy**, D. Cordes. 3D spatially-adaptive canonical correlation analysis: Local and global methods. *Neuroimage*, 169:240-255 (2018).
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2. Abstracts (Peer Reviewed and Citable)

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47. Impact of global amyloid SUVR on Spanish-English Verbal Learning Test (SEVLT) by race and ethnicity. **Rajesh Nandy**, Sid O'Bryant, Melissa Petersen, James Hall, HBM conference, Brisbane (2025).
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E. Professional Scholarly Activities

1. Journal Reviewer

- Journal of American Statistical Association (JASA)
- Statistica Sinica
- Journal of Neurolinguistics
- Neuroimage
- Human Brain Mapping
- Magnetic Resonance in Medicine
- Journal of Neuroscience Methods
- Plos One
- Journal of Statistical Software
- Journal of Medical Internet Research
- Nursing Research
- BMJ Open
- Health Services and Outcomes Research Methodology
- Computational Statistics and Data Analysis
- Frontiers in Neuroscience

2. Grant Reviewer

- National Science Foundation (NSF) since 2024.
- National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) since 2024.
- Internationale Stichting Alzheimer Onderzoek (ISAO), Netherlands

3. Book Reviewer

- Springer

4. Editor

- I have been the editor for a special issue "**Novel Perspectives and Improvements in fMRI Functional Connectivity Analysis Methods Used to Investigate Brain Networks and Cognitive Mechanisms in Humans**Frontiers in Neuroscience", published in *Frontiers in Neuroscience*, *Frontiers in Human Neuroscience*, *Frontiers in Neuroimaging* and *Frontiers in Neurology*.

5. Associate Editor

- Frontiers in Nutrition
- Frontiers in Medicine

6. Abstract Reviewer

- Organization for Human Brain Mapping

VIII. PROFESSIONAL SOCIETIES

Memberships

- International Indian Statistical Association
- American Statistical Association
- Human Brain Mapping Society