Rajan Kashyap

Assistant Professor (Ramalingaswami Fellow),
Department of Neuroimaging & Interventional Radiology, NIMHANS, Bangalore, India
Principal Investigator of AI Lab for Brain Network Therapeutics
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EDUCATION

Hong Kong Baptist University, Hong Kong (HKBU) 2012 - 2015
Ph.D. in Physics (Neuroscience)
Advisors: Changsong Zhou (HKBU) & Werner Sommer (Humboldt University, Germany)
Full Fellowship- Hong Kong PhD Fellow, 2012-2015 & DAAD-Germany Fellow (2013)

Politecnico Di Torino, Italy (POLITO) 2009 - 2011
M.Sc. in Electronics Engineering
Full Fellowship- Invest your Talent in Italy Fellow, 2009-2011

NIT-Bhopal, India (MANIT) 2001 - 2005
B.Tech in Electrical Engineering
Partial Fellowship- State (Assam) Government Fellow, 2001(State Rank- 82)

RESEARCH INTERESTS

Precision Medicine, Network Neuroscience, Brain-Behaviour, Brain Ageing, Mental Disorders, Brain Modulation/Stimulation, Computational Modelling, Artificial Intelligence, Big Data mining, Machine & Deep Learning, Image & Signal Processing.

WORK EXPERIENCE

In Academia (~10.5 years)

Assistant Professor, Deptt. Of Neuroimaging and Interventional Radiology
National Institute of Mental Health and Neurosciences, Bangalore, India **June 2022 – Till date**

Research Fellow, Centre of Brain Computing Research (PI- Prof. Guan Cuntai)
Nanyang Technological University, Singapore **Jan 2021 – June 2022**

Research Fellow, Centre for Research and Development in learning (PI- Prof Annabel Chen)
Nanyang Technological University, Singapore **Jan 2019 – Jan 2021**

Research Fellow, Computational Brain Imaging Group (PI-Prof Thomas Yeo)

Electrical & Computer Engineering, National University of Singapore **Jun 2016 – Dec 2018**

Senior Research Assistant, Center for Non Linear Dynamics (PI- Prof. Changsong Zhou)
Hong Kong Baptist University **Nov 2015 – April 2016**

Assistant Professor, Electrical Engineering **Nov 2011 – Jun 2012**
Scholars institute of Technology and Management, Guwahati, India

In Industry (~ 4 years)
Associate Consultant, Oracle (OFSS), India **May 2008 – Aug 2009**

System Engineer, Polaris Consulting and Service Limited, India **Oct 2005 – Apr 2008**

AWARDS / FELLOWSHIPS

During PhD

Hong Kong PhD Fellowship, Hong Kong (Awarded to **Top 150 candidates across World**)
https://cerg1.ugc.edu.hk/hkpfs/index.html 2012-2015

DAAD Fellow, Germany
https://www.daad.de/en/study-and-research-in-germany/scholarships/daad-scholarships/ 2013

During Post-graduate studies

Invest your Talent in Italy, Italy (Awarded to **Top 10 candidates across World**) 2009- 2011
https://investyourtalentapplication.esteri.it/SitoInvestYourTalentApplication/progetto.asp

During Undergraduate studies

Best Paper (1st Prize): NIT Rourkela, India 2004
Best Paper (1st Prize): MIT Aurangabad, India 2003
Techno-Quiz Champions (2nd Prize): SCT, Tamil Nadu, India 2002
Assam Government Engineering Fellow, India 2001

During School-level studies

3 times Winner of Student Merit Prize and Scholarship held at National Level Science Fair (Kolkata), India 1995-97

TEACHING

Undergraduate and Postgraduates in Medical Imaging Technology- ***Courses***- Basics of MRI, Gamma Knife, Signal Processing, Image Processing

Postgraduates (MSc), Doctor of Philosophy (PhD) and Doctorate of Medicine (DM) - ***Courses*** – *Advances courses in MRI*- Data Preprocessing, Network topology, Machine Learning, Brain-Behaviour Prediction and Mapping, Advances with Artificial Intelligence

GRANTS AWARDED

*As Principal Investigator (PI) – **Artificial Intelligence lab for Brain Network Therapeutics***

1. Department of Biotechnology Ramalingaswami Fellowship, India (*~1Million US$*) 2022-2027
2. MS Song Yakun Post Graduate Fellow, Hong Kong (*~ 3000 US$*) 2013
3. Madam Kwok Chung Bo Fun Fellow, Hong Kong (*~ 1500 US$*) 2014

As Co-PI

1. DBT funded Project (~1 Million US$)- Project Title- Investigating Personalised Non-invasive Brain Stimulation in Primary Progressive Aphasia- Dr. Sagarika Bhattacharjee, NIMHANS, Duration - 2022-2027
2. SERB funded Project (0.5 Million US$) – Project Title – Comprehensive and Multimodal assessment of motor Plasticity in focal Epilepsy – Dr. Ajay Asranna – NIMHANS, Duration-2022-2026

PUBLICATIONS (Ascending Year-wise)

Total Publication- as – (i) **First Author- 14,** (ii) **Corresponding Author- 16,** (iii) **Total Impact Factor ~ 110,** (iv) **4 Neuroscientific Tool Boxes Developed.** Full publication list is also available at https://scholar.google.com.sg/citations?user=N-duCjEAAAAJ&hl=en&authuser=1

1. **Kashyap, R.,** Ouyang, G., Sommer, W., Zhou, C., (2015). Neuroanatomic localization of priming effects for famous faces with latency corrected Event related potentials, *Brain Research*,1632, 58-72
2. **Kashyap, R.,** Ouyang, G., Sommer, W., & Zhou, C. (2016). Improved Source Localization of Priming Effect of Face Recognition Based on RIDE. *Advances in Cognitive Neurodynamics* (V), 533-539.
3. **Kashyap, R.** Improved localization of neural sources and dynamical causal modelling of latency-corrected event related brain potentials and applications to face recognition and priming. *PhD Thesis*. (2015). Hong Kong Baptist University, Hong Kong. https://pdfs.semanticscholar.org/0280/d877ff5f7b2af3e295d63137409546bcc2b8.pdf
4. Bhattacharjee, S., Mondol, M., **Kashyap, R**.,** (2016). Effect of Hypertension and Hypercholesterolemia on Auditory Brainstem Response in Adults. *International Journal of Medical and Health Sciences*, 5(4), 267-271. **(** Corresponding author)**
5. Bhattacharjee, S., & **Kashyap, R.** (2017). Neuromuscular Characterisation of dysphagia following stroke. *International Journal of Applied Medical Sciences*, 2(2).
6. **Kashyap, R**.,** Bhattacharjee, S., Sommer, W., Zhou, C., (2018). Repetition Priming Effects for Famous Faces through Dynamic Causal Modelling of Latency-Corrected Event-Related Brain Potentials. *European Journal of Neuroscience*.49(10), 1330-1347 **(** Corresponding author)**
7. **Kashyap. R**,** Kong R., Bhattacharjee, S., Lia, J., Zhou, H., Yeo, B.T. (2019), Individual specific fMRI subspaces improve Functional Connectivity prediction of Behaviour. *Neuroimage*, 189, 804-812. **(** Corresponding author)**
8. **Kashyap, R.*,** Bhattacharjee, S*, Desmond, J. E., Rapp, B., Oishi, K., Chen, S. A. (2019); Simulation Analyses of tDCS Montages for the investigation of Dorsal and Ventral pathways. *Scientific Reports*, 9(1), pp.1-17. **(Toolbox downloaded > 700 times)**
9. **Kashyap, R**##.,** Bhattacharjee, S., Yeo, B.T. and Chen, S.A., (2019). Maximizing Dissimilarity in Resting State detects Heterogeneous Subtypes in Healthy population associated with High Substance-Use and Problems in Antisocial Personality. *Human Brain Mapping***.** 41(5), 1261-1273 **(** Corresponding author)** ***## Editor's choice for being the Cover-page of journal*** **(**https://onlinelibrary.wiley.com/doi/abs/10.1002/hbm.24649**)**

10. Bhattacharjee, S., **Kashyap, R.,** Chen, S.A., Turki, A., Yoo, WK., and Bashir, S. (2020). The Primary Motor Cortex: More than movement execution. *Journal of Motor Behaviour*. 53(2), 258-274
11. Bhattacharjee, S, **Kashyap, R.,** Brien A.OB., Rapp, B., McCloskey, M., Oishi, K., Desmond, J. E., Chen, S. A (2021). Reading Proficiency influences the effect of TDCS: evidence from selective modulation of dorsal and ventral pathways of reading in bilinguals, *Brain and Language*, *210*, p.104850
12. **Kashyap, R.**,** Bhattacharjee, S, Arumugam, R., Oishi, K., Desmond, J. E., Chen, S. (2020) A, i-SATA: A MATLAB based toolbox to estimate electric field generated by tDCS in an individual brain, *Journal of Neural Engineering,* 17(5), p.056034. **(** Corresponding author) (Toolbox Downloaded > 1500 times) - Possibly Highest Downloaded Toolbox from Dr. NTU website**
13. **Kashyap, R**#.,** Eng, GK., Bhattacharjee, S., Gupta B, Ho, R., Ho, C., Zhang, M., Mahendran, R., Sim K., Chen, S. A. (2021) Individual-based Approaches reveal Fronto-Striato-Limbic dissociation and Cerebellar-Visual association in Obsessive-Compulsive Disorder, *Scientific reports, 11(1), p.1354* **(** Corresponding author) (#** Nominated as Exceptional research by ***Faculty Opinions*** https://facultyopinions.com/article/739373355**)**.
14. Bhattacharjee, S., **Kashyap, R.,** Goodwill, M.A., O'Brien, B., Rapp, B., Oishi, K., Desmond, J. E., & Chen, S. A. (2021). Sex Difference in tDCS Current Mediated by Changes in Cortical Anatomy: A Study across Young, Middle and Older adults. *Brain Stimulation*. 15(1), 125-140
15. **Kashyap, R**.,** Bhattacharjee, S., Arumugam, R., Bharath, R.D, Udupa, K., Oishi, K., Desmond, J. E., Chen, S. A. & Guan, C. (2021). Focality Oriented Selection of Current Dose for Transcranial Direct Current Stimulation. *Journal of Personalised Medicine.* 11(9), 940 **(** Corresponding author)**. **(Toolbox Downloaded > 100 times)**
16. **Kashyap, R**.,** Bhattacharjee S, Bharath, RD, Venkatsubramanian, G, Udupa, K, S., Bashir, S., Oishi, K., Desmond, J. E., Chen, S. A. & Guan, C. (2022). Variation in Cerebrospinal fluid of Specific Regions regulate Focality in Transcranial Direct Current Stimulation. *Frontiers of Human Neuroscience.* 16, 952602 **(** Corresponding author)**.
17. **Kashyap, R**.**, Bharadwaj, S., Bhattacharjee, S., Sunny, A. S, Udupa, K., Kumar, M., Pal, P K, Bharath R D, (2023). The Perturbational Map of Low Frequency Repetitive Transcranial Magnetic Stimulation of Primary Motor Cortex in Movement Disorders. *Brain Disorders.* 9, 10071 (**** Corresponding author**).
18. **Kashyap, R. **,** Holla, B.; Bhattacharjee, S.; Sharma, E.; Mehta, M.U, Vaidya, N.; Bharath, R.D.; Murthy, P.; Basu, D.; Subodh, B. N.; Singh, R.L.; Lourembam, R.; Chakrabarti, A.; Kartik, K.; Kalyanram, K.; Kumaran, K.; Krishnaveni, G.; Krishna, M.; Kuriyan, R.; Kurpad, S.S.; Desrivières, S.; Purushottam, M.; Barker, G.J; Orfanos, P.D; Hickman, M.; Heron, J; Toledano, M.; Schumann,G.; Benegal, V.; and Consortium on Vulnerability to Externalizing Disorders and Addictions (cVEDA) (2024). Childhood adversities characterize the heterogeneity in the brain pattern of individuals during neurodevelopment, *Psychological Medicine.* 113 (*** Corresponding Author**) - Covered by International Social Media- *PsyPost* (https://www.psypost.org/new-study-reveals-lasting-impact-of-childhood-adversity-on-brain-development/).
19. Bhattacharjee, S., Udupa, K., Venkatasubramanian, B., Oishi, K., Desmond, J. E., G., Rapp, & Chen, S. A., **Kashyap, R**.**, (2024). Alignment of Behaviour and tDCS Stimulation Site Induces Maximum Response: Evidence from Online tDCS and ERP. *Scientific Reports.* 14(1), 19715 (**** Corresponding author**).
20. Bhattacharjee S,**Kashyap R**., Sreeraj VS, Sivakumar P.T., Venkatsubramanian G., Alladi S., Oishi K ., Desmond J.E, Chen SHA, Sathyaprabha TN & Udupa K. (2024) Comparison of Personalised Doses in High Definition and Conventional tDCS for Neuropsychiatric Disorders using Electric field Modelling. *Brain Sciences.*14(2), 1162. Covered by the India's largest National newspaper Deccan Herald 14th Oct, 2024 (https://www.deccanherald.com/india/karnataka/bengaluru/boost-for-treating-psychiatric-disorders-as-ai-meets-medicine-3230847)

21. Bhattacharjee S,Chakraborty I.,**Kashyap R**., Sreeraj VS, Arshad F,Yamini B.K, Bharath R.D., Sivakumar P.T., Venkatsubramanian G., Alladi S., Oishi K., Desmond J.E, Chen SHA, Sathyaprabha TN & Udupa K. (2025). Possible Target Regions for Noninvasive Modulation of Language Network in Primary Progressive Aphasia: A Narrative Review. *Brain Disorder,*19, 100255.
22. Khokhar, S.K., Kumar, M., Arshad, F., Goyal, S., Tiwari, M., Thanissery, N., Ramakrishnan, S., Nagaraj, C., **Kashyap, R.,** Mangalore, S. and Gandhi, T.K., 2025. Multiplex connectomics reveal altered networks in frontotemporal dementia: A multisite study. Network Neuroscience, 9(2), pp.615-630.
23. **Kashyap, R**.,** Zhou C, Tsapkini K, Desmond, J. E., Chen SHA, Bharath, RD, Bhattacharjee S (2025). Longitudinal Evaluation of Common and Unique Brain Networks In Variants of Primary Progressive Aphasia. *Alzheimer's Research and Therapy, 17 (1), 1-14* **(** Corresponding author)**.
24. Bhattacharjee S, Sivakumar P.T., Venkatsubramanian G., Oishi K., Chen SHA, Tsapkini K, Chen SHA, Desmond J.E, Sathyaprabha TN, Udupa K. **Kashyap R****.(2025) The Role of Structural and Functional Parameters in Designing Pathology-Specific tDCS Protocols for Primary Progressive Aphasia. *Alzheimer's Research and Therapy, 17(1), 156 (* **** Corresponding author***).*
25. Bhattacharjee S, Sivakumar P.T.,Venkatsubramanian G., Bharath , RD; Oishi K., Chen SHA, Tsapkini K, Chen SHA, Desmond J.E, Sathyaprabha TN, Udupa K. **Kashyap R****., (2025) Personalized Transcranial Direct Current Stimulation for Behavioral and Neurophysiologic Outcomes. *JAMA Network Open,8;(8):e2526148. (*******Corresponding author***)*- **WORLD'S FIRST PERSONALISED tDCS EXPERIMENTAL PROTOCOL**
26. Mehta, M.U, Bhattacharjee, S., Govindaraj R., Ramachandraiah, C., Bolo, N., Bharath, D.R, Thirthalli, J., Venkatasubramanian, G., Gangadhar, B., Pascual-Leone, A., Keshavan, M.. **Kashyap, R**.**, Sex-dependent network-level cortical plasticity and its association with antipsychotic response in schizophrenia: Evidence from a personalized-TMS-fMRI study, *Journal of Neurophysiology* (**Under Revision, ** Corresponding author**).

Noted Conference Abstracts

1. Chakraborty I.,**Kashyap R**., Sreeraj VS, Arshad F,Yamini B.K, Bharath R.D., Sivakumar P.T., Venkatsubramanian G., Alladi S., Oishi K., Desmond J.E, Chen SHA, Sathyaprabha TN Udupa K & Bhattacharjee S.. Comparison of Conventional and HD-tDCS for Neuropsychiatric Disorders- Oral Presentation at OHBM, Seoul, 2024 (**ICMR Travel Fellowship**)
2. Bhattacharjee S., **Kashyap R.,** O'Brien B., Rapp B., Oishi K., Desmond J.E, Chen A., (2021) The Sex Difference in simulated tDCS current across different age groups mediated by changes in cortical anatomy." Organization of Human Brain Mapping 2021 (**Exceptional Abstract Award**, 2021).
3. **Kashyap, R.**, Eng, G.K; Bhattacharjee, S.; Gupta, B.; Ang, D.; Long, S.Y.; Ho, RC.,M., Ho, CS.,H.; Zhang, M.,W.; Mahendran, R.; Sim, K.; Chen, SH., A., (2020) Functional Connectivity from Individual-fMRI-Subspace Improves Comparison of OCD and Control group. The 26th Annual Meeting of the Organization for Human Brain Mapping, Montreal, Canada.
4. **Kashyap, R**., Bhattacharjee, S., Kong. R., Kuek, N., Chen., SH., A., Yeo, B.T.T (2019) Sample Data Selection in resting state fMRI Improves the Prediction Accuracy of Behavioral Measures. The 25th Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy.
5. Bhattacharjee, S., **Kashyap. R**., Chew. A., Desmond. J.E., Chen., SH., A., (2019) Gender Difference in the Effect of tDCS on Reading. 25th Annual Human Brain Mapping Conference, Rome, Italy.
6. Bhattarcharjee, S., Chew, A., **Kashyap, R.,** Wu, C.Y., Yeo. M., O'Brien. B., Rapp, B., McCloskey, M., Oishi, K., Desmond, J.E., Chen, S. A. (2019). Could tDCS Modulate Bilingual Reading? Brain Stimulation, 2019-03-01, Volume 12, Issue 2, Pages 569-569.

7. **Kashyap, R.,** Kong, R., Lia, J., Yeo, B.T. Individual fMRI subspaces enhance fMRI Behavioural Prediction" (2018) In Organization of Human Brain Mapping Annual Meeting: Singapore,1679
8. Bhattacharjee, S., **Kashyap, R.,** Desmond, J. E., Rapp, B., Oishi, K., Chen, S. A.; A Systematic Analysis of Simulations for tDCS Montages Applied in Reading; (2018) In Organization of Human Brain Mapping Annual Meeting.; Singapore, 1691
9. **Kashyap, R.,** Ouyang, G., Sommer, W., Zhou, C. Improved Source Localization of priming effect of face Recognition based on RIDE. (2015) 5th International Conference on cognitive Neurodynamics, Sanya, China**.**
10. **Kashyap, R.,** Ouyang, G., Sommer, W., Zhou, C. Neuroanatomic localization of priming effects for famous faces with RIDE". Neuro informatics, (2015), Cairns, Australia.
11. **Kashyap, R.,** Ouyang, G., Sommer, W., Zhou, C. Improved source dynamics of face recognition through RIDE. (2015) 18th conference of the physical society of Hong Kong hosted by Hong Kong Polytechnic University.
12. **Kashyap, R.,** Ouyang, G., Sommer, W., Zhou, C. Understanding face recognition with RIDE. (2015) "Stroke rehab: No-Tech to Go-Tech", Christ Church, New Zealand, organized by Rose Centre for Stroke Recovery and Research, University of Canterbury.
13. Bhattacharjee I. R., Shaptadvipa B., Bhattacharjee, S., **Kashyap, R**. Understanding space life through principles of Self Gravitation (2014) Bio. 65th International Astronautical Congress. (Note: Assisted in formulating biophysical principles in defining the role of various fundamental forces).
14. Bhattacharjee I.R., Shaptadvipa B., Bhattacharjee, S., **Kashyap, R**. Self gravitation bio: Some convincing evidences on astrophysical principles (2014) 18th International Biophysics Congress (IUPAB), Brisbane, Australia. (Note: Assisted in formulating biophysical principles in defining the role of various fundamental forces)
15. **Kashyap,R**., Bhattacharjee, S., and Bhattacharjee, I., R. Finite element approach to understand self-gravitational bio in embryological compact mass (2011). Proc. in NEW & NOTABLE section of the 8th European Biophysics Congress, organized by the European Biophysical Societies Association, the Hungarian Biophysical Society, and the Eötvös Loránd University held at Budapest. (Note: Formulated application of finite elements in biophysical studies on defining the role of various fundamental forces)
16. Bhattacharjee I.R., **Kashyap, R.,** Bhattacharjee, S. Finite element approach to understand 'self-gravitation bio' towards incidence of 'macromolecular crowding' and 'anomalous sub diffusion'.(2011)17th International Biophysics Congress (IUPAB) (Note: Assisted in formulating biophysical principles in defining the role of various fundamental forces)
17. **Kashyap, R.**, Bhattacharjee, S., Bhattacharjee, I., R. Mathematical approach on embryogenesis in the light of self gravitation bio. (2011) 17th International Biophysics Congress (IUPAB), Beijing, China. (Note: Formulated application of engineering principles in biophysical studies on defining the role of various fundamental forces)
18. Bhattacharjee, I.R., **Kashyap, R.,** Shaptadvipa, B. Intrinsic gravity versus metabolically inert infrastructure and basal metabolic rate in living mass (2009) 7th European Biophysics Congress Genoa, Italy. (Note: Assisted in formulating biophysical principles in defining the role of various fundamental forces).

OPEN SOURCE SOFTWARES DEVELOPED (GITHUB- https://github.com/suklamaa)

1. **Year 2026-** Created Individual-Systematic Approach for tDCS analysis for Network based distribution of stimulation intensity (iSATA-Network, Work Ongoing)

2. **Year 2022-** Created Individual-Systematic Approach for tDCS analysis (i-SATA-(MNI), https://doi.org/10.21979/N9/KWTCWK) an **open source software** that aids tDCS montage selection for Individual head model/subject for the AAL Atlas (downloaded 100 times).

3. **Year 2021-** Created Individual-Systematic Approach for tDCS analysis (i-SATA, https://doi.org/10.21979/N9/5W3RIM)- an **open source software** that aids tDCS montage selection for Individual head model/subject for the Talairach Atlas. (Downloaded >1500 times)
4. **Year 2020-** Created Systematic Approach for tDCS analysis (SATA, https://doi.org/10.21979/N9/DMWPZK)- an open source software that aids tDCS montage selection for standard MNI brain head model (Downloaded > 700 times)
5. **Year 2019-** Propose the framework "Individual-specific fMRI subspace "in Neuroimaging (http://neuroimaginglab.org/assets/pdf/Imported/2019_03.pdf)

INVITED TALKS (SELECTED)

In Academia

1. Symposium on Innovation and Technology Shaping Neuroscience (ITSFN), Pakistan Aug, 2023
2. Singapore -Japan joint workshop, CIRC, NUS Dec 2020
3. NTU-MIND " Learning and Memory" Aug 2020
4. Clinical Brain Laboratory, NTU, Singapore Sept 2016
5. 18th conference of the physical society of Hong Kong July 2015
6. Stroke rehab: No-Tech to Go-Tech", University of Canterbury, New Zealand Jun 2016
7. 5th International Conference on cognitive Neurodynamics, China Jan 2016

In Industry

1. Merck Group, India "Future for Generative Artificial Intelligence" May, 2023
2. View Point Article on "Privacy Protection in Indian Health Care system " May, 2025
   Covered by Analytics India Magazine (AIM)- India's Largest selling AI based Social Media Platform-
   https://analyticsindiamag.com/ai-features/ai-is-changing-healthcare-but-can-india-protect-patient-privacy/

Med-Tech Consultation

1. Technical Consultant for various *Neuroscience based Startups (e.g., Sparshmind) and Funding Bodies* (Social Alpha)
2. Technical Consultant – Johns Hopkins University, USA for ongoing tDCS based Clinical trial under Prof. Kyrana Tsapkini (Professor of Neurology)

Guest Lecture

CHRIST University, Bangalore – Courses- MSc in AI, and MCA – Topic- "AI enhanced Clinical MRI in Neuropsychiatric Disorders"

Social Outreach

- Conducted the Suicide Prevention Program with an expert panel of Doctors for Engineering students at NIT Bhopal- 3rd Oct, 2024
- Jury Member of International Student Film Festival on 'AI for daily health' conducted at Prague, Czech Republic May 2024
- Scientific Committee for Dissemination of research on National Science day at NIMHANS from 2022-2025
- PODCAST- Promoted Neuroscience research and Higher Studies through Podcast videos.
- MUSIC INTEREST- I play **TABLA** in public shows- also played in Faculty and student meet at NIMHANS
- SPORTS INTEREST- 3rd Prize in Table Tennis in NIMHANS Faculty sports Meet.

STUDENT SUPERVISED

Number of students co-supervised at Hong Kong Baptist University – 2
Number of students co-supervised at National University of Singapore – 1
Number of PhD students co-supervised at Nanyang Technological University – 3
Number of DM Medical students co-guided at NIMHANS, Bangalore, India – 2
Number of Research Assistants supervised at NIMHANS, Bangalore, India – 3

CONFERENCES and TALKS ORGANISED

- Co-Organized Computational Neuroscience conference "**From Brain to Brain**" as joint conference between Chinese University of Hong Kong and Hong Kong Baptist University during 2013 (http://ias.ust.hk/program/201307/act_student.html).
- Co-organized **Indian Brain Connectivity Workshop** conducted under *Indian Society of Neuroradiology (iSNR)*, 20th- 23rd feb, 2025 at National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore, India (https://isnr2025.com/workshop).

Summer Projects (Notable)

- Master level Thesis (2011) at Politechnico Di Torino, Italy entitled "Study of the magneto optical properties of TZN fiber" was an innovative one as we have obtained one of the best fibres for optical communication and sensing application. Our Quantitative FEM techniques in calculating stress and loss across the fibre cited the reasons for Jitter and their minimization during optical communication.
- Minor projects on "Voltage Gated and Light Dependent Function Generator" and major thesis on "Power theft control and detection using SCADA" was considered to be innovative and among the best projects in my undergraduate study during 2005.
- Summer Vocational Trainings on "Coil & Insulation manufacturing", "Traction Motor manufacturing", and "Transformer Manufacturing" at Bharat Heavy Electrical Limited (BHEL), Bhopal, India during May, 2004.

Extra-Curricular Activities

- Member: - Organisation of Human brain mapping (**OHBM**)
  Society for Neuroscience-Singapore (**SFN**)
  Physical Society of Hong Kong (**PSHK**)

American Psychological Association (**APA**)

- Won the 'Fair Play' Award in Inter-Continental Soccer Tournament in Italy representing India in 32 nation world competition during 2011.
- **Musical Instrument** Proficient in playing *Indian Classical Musical Instrument* for Accompanist - '**Tabla**' at Visharad level.
- **Sports-** Proficient in *swimming* and a State-level Swimmer from Assam, India.
- Underwent *Army training* as a part of National Cadet Corps (NCC) cadet in India and received 'B' certificate.
- Industrial Publication- India's Largest AI based Media House (AIM) featured my interview with them on how to protect Patient Prvacy in Todays Digital World - https://analyticsindiamag.com/ai-features/ai-is-changing-healthcare-but-can-india-protect-patient-privacy/

Referee names and Contact

Name	University	Contact Detail
1. Prof. Thomas Yeo	NUS, Singapore	thomas.yeo@nus.edu.sg
2. Prof. Annabel Chen	NTU, Singapore	annabelchen@ntu.edu.sg
3. Prof Guan Cuntai	NTU, Singapore	CTGuan@ntu.edu.sg
4. Prof. Changsong Zhou	HKBU, Hong Kong	cszhou@hkbu.edu.hk