


NAME	Dr Jasleen Gund		
DESIGNATION	Assistant Professor-I		
EMAIL ID	jgund@amity.edu		
CONTACT NUMBER	+91- 9968709132		
RESEARCH INTERESTS	Computational Biology, Theoretical Neuroscience, Complex systems and Networks, AI/ML, Mental Health		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University		Degree	Year
University of Delhi		Bsc. Life Sciences	2010
Guru Jambheshwar University of Science & Technology		Msc. Biotechnology	2012
Jawaharlal Nehru University		Ph.D.	2019
Title of Ph.D. thesis: Origin and Prediction of Irregularities in Complex Brain Dynamics.			
EXPERIENCE (in chronological order): Total 08 Years Research & Teaching			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
CSIR Project-JRF fellow	Research	School of computational & Integrative Sciences, JNU	2015-2018
Research Associate-I	Research	National Brain Research Centre	2019-2020
Project Scientist-I	Research	National Brain Research Centre	2020-2021
Resident Neuroscientist	Research	Neuphony by Pankhtech Pvt. Ltd.	2023 (May-August)
Assistant Professor-I	Research and Teaching	Amity University Uttar Pradesh	2023 - Present
No. of Ph.D. students supervised	nil		
No. of Post-Doc	nil		
No. of M.Tech. Students supervised:	06		
No. of B.Tech. Students supervised:	02		
PUBLICATIONS (6)	<p><i>Publications:</i></p> <ol style="list-style-type: none"> Yadav V., Yadav A., Singh K., Singh M., Gund J. (2025), “Real Time Signal Processing in Healthcare”, Emerging Technologies in Medical Imaging and Real Time Signal Processing, Wiley-Scrivener Press (Accepted). Thapliyal I., Kushwaha A., Biju A., Garg P., Mendiratta A., 		

Mishra A., Sharma G., **Gund J.**, Pandey R., Chaturvedi N. (2025) "Computational Insights into Amyloidogenesis: Mechanisms, Challenges, and Therapeutic Potential", Structural Biology of Amyloid Fibrils: Current understanding and the limitations, Elsevier (Accepted).

3. **Gund J.**, Mishra Y., Singh R.K.B., Mallick B.N., "Functional switching among dynamic neuronal hub-nodes in the brain induces maintenance/transition of cognitive states.", Applied Network Science 10(4), 2025. <https://doi.org/10.1007/s41109-024-00688-2>.
4. Shahid, R., Shahid, S., **Gund, J.**, & Chaturvedi, N. (2024). AI-based advances in crop disease detection and health improvement. Methods in Microbiology. Academic Press Elsevier.
5. **Gund J.**, Singh R.K.B., "Emergence of Functional Cortical Patterns of neurons characterize the self-organizing way to cognition in brain", Doi: <https://doi.org/10.1101/569244>. 2019 (Pre-print)
6. **Gund J.**, Singh A., Singh R.K.B., "Ordering Dynamics in Neuron Activity Pattern Model: An Insight to Brain Functionality", PLOS ONE 10(10), e0141463., 2015. Doi:<https://doi.org/10.1371/journal.pone.0141463> (IF:2.9)
7. Kaushik A., Lohan S., Kaushik C.P., Singh N. and **Gund J.**, "Isolation and Partial Characterization of Phenanthrene Degrading Aerobic Bacterial Isolates", Annals of Biology 30(3), 434-439., 2014.

Workshops & Conferences:

1. Poster Presentation: Kanwar D., Das A.K., Tufael M., Gund J., "Identification of Depression Markers in the resting state by functional brain networks.", "International School and Conference on Network Science (Net-SciX 2025)", Venue- J.W Marriot, Indore, January 14-17, 2025.
2. Paper Presentation: Gund J., Ghosh P., Banerjee A., Roy D., Empirical Mode Decomposition reveals differential Phase Amplitude Coupling during re-orientation of attention in static and dynamic stimulus processing, "Seventh Annual Conference of Cognitive Science (ACCS7)", Organized by Indian Institute of science, Bangalore, India, January 23-25, 2021.
3. Volunteering and Participation: "International Conference on Bioinformatics", organized by School of computational & Integrative Sciences, JNU, New Delhi, India, September 26-28, 2018.
4. Poster Presentation: Gund J., Mishra Y., Mallick B.N., Singh R.K.B., "Complex patterns of brain states in frontal and occipital cortical regions during wake-sleep-anesthesia stages in Rats. ", " Brain Modes 2017", Venue- NBRC - Manesar, Gurgaon, Haryana - 122051, December 11-14, 2017.
5. Participation: Course on "Cognition : An interdisciplinary perspective.", organized by GIAN, Venue- IISER Mohali,

	<p>Punjab, India, August 13-21, 2016.</p> <ol style="list-style-type: none"> Poster Presentation: Gund J., Singh R.K.B., “Emergence of neuron clusters characterize the self-organization in brain.”, “ Second International Conference on Mathematical Neuroscience”, Venue- Antibes, Juan les pins, France, May 30-1 June, 2016. Contributed Talk: Gund J., Haobijam D. and Singh R.K.B., “Emergence of symmetry in Hindmarsh-Rose neuron model”, “International Conference on Mathematical and Computational Biology”, Venue- Indian Institute of Technology - Kanpur, India, Feb 28-3 March, 2015. Participation: Indo-US Bilateral Conference cum Workshop on "Big Data Analysis and Translation in Disease Biology", organized by School of computational & Integrative Sciences, JNU, New Delhi, India, Jan 18-22, 2015. Participation: Instructional Workshop on "Fundamentals of Systems Biology", Venue- Cluster Innovation Centre, University of Delhi , New Delhi, India, Dec 22-24, 2014. Participation “DST-SERC School on Non-linear Dynamics.”, Venue- Department of Physics, Central University of Rajasthan, Rajasthan, India, Dec 1-20 2014. Participation: International conference on "Python for Education and Scientific Computing (Scipy)", Venue- Indian Institute of Technology - Bombay, India, Dec 15-17, 2013. Participation: Symposium on "Complex systems : From physics to biology", Venue- School of computational & Integrative Sciences, JNU, New Delhi, India, Oct 15-16, 2013.
PATENTS (0)	Details:
RESEARCH PROJECTS Completed: (0) Ongoing: (0)	Details:
AWARDS & HONOURS/ DISTINCTIONS	Details: <ol style="list-style-type: none"> Appointed as Innovation and Research coordinator by Women in Network Science (Wins) Council. (2025) ITS-SERB travel grant received, to present work in ICMNS at Antibes, France. (2016) Best Publication prize for "Ordering Dynamics in Neuron Activity Pattern Model: An Insight to Brain Functionality", in the Annual Open Day of School of Computational & Integrative Sciences, JNU , New Delhi, India. (2016) University Grant Commission’s exam for eligibility in Lectureship (UGC-NET) in Life Sciences , All India Rank 0036. (2012) Graduate Aptitude Test in Engineering (GATE) in Life Sciences , All India Rank 835, GATE Score-409. (2011)

MEMBERSHIP with Professional/
Academic bodies

Details: WINS- Women in Network science Society
NetSci – The Network Science Society