


NAME	Dr Jasleen Gund	
DESIGNATION	Assistant Professor-I	
EMAIL ID	jpgund@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:	02
No. of B.Tech. Students supervised:	12

PUBLICATIONS (3)	<p>Publications:</p> <ol style="list-style-type: none"> Shahid, R., Shahid, S., Gund, J., & Chaturvedi, N. (2024). AI-based advances in crop disease detection and health improvement. <i>Methods in Microbiology</i>. Academic Press (Accepted). (IF: 3.0) Gund J. , Mishra Y., Singh R.K.B., Mallick B.N.,
----------------------------	---

“Functional switching among dynamic neuronal hub-nodes in the brain induces transition of cognitive states.”, Doi: <https://doi.org/10.48550/arXiv.2109.09224>. 2021 (Pre-print)

3. **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)
4. **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)
5. 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. 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.
2. Volunteering and Participation: "International Conference on Bioinformatics", organized by School of computational & Integrative Sciences, JNU, New Delhi, India, September 26-28, 2018.
3. 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.
4. Participation: Course on "Cognition : An interdisciplinary perspective.", organized by GIAN, Venue- IISER Mohali, Punjab, India, August 13-21, 2016.
5. 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.
6. 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.
7. Participation: Indo-US Bilateral Conference cum Workshop on "Big Data Analysis and Translation in

	<p>Disease Biology", organized by School of computational & Integrative Sciences, JNU, New Delhi, India, Jan 18-22, 2015.</p> <p>8. 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.</p> <p>9. Participation: International conference on "Python for Education and Scientific Computing (Scipy)", Venue- Indian Institute of Technology - Bombay, India, Dec 15-17, 2013.</p> <p>10. Participation: Symposium on "Complex systems : From physics to biology", Venue- School of computational & Integrative Sciences, JNU, New Delhi, India, Oct 15-16, 2013.</p>
PATENTS (0)	<i>Details:</i>
RESEARCH PROJECTS Completed: (0) Ongoing: (0)	<i>Details:</i>
AWARDS & HONOURS/ DISTINCTIONS	<p><i>Details:</i></p> <ol style="list-style-type: none"> 1. ITS-SERB travel grant received, to present work in ICMNS at Antibes, France. (2016) 2. 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) 3. University Grant Commission's exam for eligibility in Lectureship (UGC-NET) in Life Sciences , All India Rank 0036. (2012) 4. Graduate Aptitude Test in Engineering (GATE) in Life Sciences , All India Rank 835, GATE Score-409. (2011)
MEMBERSHIP with Professional/ Academic bodies	<i>Details: WINS- Women in Network science Society NetSci – The Network Science Society</i>