Curriculum Vitæ

Personal information

Name	**Nishant Jana**
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Contact Number	+91 99204 31714
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Nationality	Indian
Date of birth	25th November, 1999

Affiliations

Primary	Undergraduate Student, 2017-2021 SRM Institute of Science and Technology, Kattankulathur, Chennai
Additional	User-Developer, TOPAS MC, a monte-carlo simulation toolkit based on Geant4 A 529-member group (global) of medical physicists and clinical experts.

Research Exp.

Position	Research student; (visiting) Dec 2019 - present
Guide	Dr. Sheeba Vasu, Behavioural and Neurogenetics Laboratory, JNCASR, India
Area of Research	Redox Rhythms in circadian pacemaker neurons (Glutathione and Peroxiredoxin) Redox state mapping in-vivo snapshots and Ex-Vivo CNS cultures
Position	Research student; May 2019 – present.
Guide	Dr. S. Sahabudeen, Department of Biotechnology, SRM IST, Chennai, India
Area of Research	BPA induced Autism Spectrum Disorder model in Drosophila

Education

Degree Pursued	Bachelors of Technology, Biotechnology; (2017-2021)
Institution	SRM Institute of Science and Technology, Kattankulathur, Chennai, India.
12th AISSCE	92% PCM-B(E), 2017
Institution	R.N. Podar School, Affiliated to CBSE, Mumbai, India
10th AISSE	9.4 CGPA, 2015
Institution	R. N. Podar School, Affiliated to CBSE, Mumbai, India

Conferences Attended

JAN 2020	APDRC5 – Asia Pacific Drosophila Research Conference 5 (to attend) poster: "Comprehensive study on the Bisphenol-A induced Drosophila model for Autism Spectrum Disorders with co-treatment by Cerium oxide Nanoparticles and U0126 MAP Kinase inhibitor: genotoxicity, oxidative stress, apoptosis and behavioural irregularities."
FEB 2019	Accelerating Biology, 2019. BRAF – CDAC, IISER-Pune.
Notable Events	Presented Poster on "Computing Machinery and Evolutionary Survival" Met Joseph Perl, Creator-developer of TOPAS MC, currently part of the project.

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Communication Skills

Languages in which fluent | English, Hindi, Bengali.

Cultural Exposure

Cities lived in | Mumbai (Khar,12 years); Hyderabad (Banjara Hills,1 year); Delhi (GreenPark,2years) Chennai (SRM, 3 years).

Cities (<year) | Bangalore (JNCASR, Jakkur), Ahmedabad (born in city, Vastrapur), Vadodara

Computer Skills

Operating Systems | Currently using Pop!_OS 19.04 based on Ubuntu 19.04 distro, Linux/C-Unix
Can easily shift to Kali, RHEL6/aws or CentOS variants.
Well versed with Windows, Macintosh systems.

Programming Languages Examples | I am not an experienced programmer, but I get things working.
I didn't write MARGO but I added camera sources and data outputs for my usage.
At Topas-MC n-Bio my role is to find flaws in the code, and suggest modifications.
Wrote scripts in MATLAB for automating C-Trax error fixes.

Scientific computing | MATLAB (for C-Trax, JAABA, Psychobox)

I'm not formally trained in computing systems but I love them and enjoy everything
Associated to them, from building them to knowing how they work and trying new
Things with them. Computer vision, machine learning, fuzzy logic and genetic
Algorithms are my areas of interest.

Current Interests

- Clock control on cognitive activity
- Redox state as read-outs for membrane excitability
- Masking effects: calcium inactivity vs redox state
- Neural circuits and roles in specific activity
- Fly behavior: movement and environment model
- Survival associated evolutionary origin of neural circuits