

# ANIRBAN MULLICK

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## Personal Profile

Detail-oriented Physics postgraduate with hands-on experience in spectroscopic analysis and experimental research. Proficient in Raman, FT-IR, and UV-Vis techniques for material and biochemical characterization, with strong skills in data analysis, instrumentation handling, and experimental optimization. Adept at problem-solving, technical documentation, and working in collaborative laboratory environments, seeking to contribute analytical and research expertise to industry-focused R&D and technology-driven teams.

## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2025	M.Sc Physics	NIT, Tiruchirappalli	8.95/10.00
2023	B.Sc Physics (Hons.)	University of Calcutta, Kolkata	8.14/10.00
2020	Class XII	ST. Thomas' Church School, Howrah, ICSE	82.16%
2018	Class X	ST. Thomas' Church School, Howrah, ICSE	82.16%

## Research Experience

<b>M.Sc. Research Project</b>	July 2024 –
<b>Nano Photonics Lab, Department of Physics, NIT Tiruchirappalli, India</b>	July 2025
<b>Supervisor: Dr. B. Karthikeyan</b>	
<ul style="list-style-type: none"><li>• Calibrated and optimized confocal Raman spectrometer for spectra acquisition of plant materials.</li><li>• Collected spectra using FT-IR and UV-Vis spectroscopy of plant materials.</li><li>• Pre-processed raw spectral data using software like MATLAB, Origin and using programming language like python.</li><li>• Identified biochemical contents of plant material using spectral data.</li><li>• Developing and evaluating machine learning models for regression and classification including Linear Regression, Gaussian Process Regression, Support Vector Machines, Neural Networks, Regression Trees, and PLS-DA using MATLAB.</li></ul>	

## Skills

- Programming Languages: Python
- Engineering Software: MATLAB, LaTeX
- Other Software: Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Origin

## Publication

- [1] Mullick, Anirban and Balagopalan, Susmitha and S, Sooraj and B, karthikeyan, Spectroscopic Analysis of Acid Rain-Induced Stress in Neem (*Azadirachta Indica*). <http://dx.doi.org/10.2139/ssrn.5187401> [in communication]

## Poster Presentation

- [P1] Confirmatory detection and evaluation of acid rain stress in Neem (*Azadirachta indica*) using spectroscopic techniques at Indian Biophysical Society Meeting (IBS 2025), organized by Indian Institute of Technology, Madras, India, [March 2025].
- [P2] Acid rain induced agglomeration of carotenoids: spectroscopic study at National Symposium on Recent Advances in Electronic, Optical and Magnetic materials (NSEOM '25), organized by Karpagam Academy of Higher Education, Coimbatore, India, [February 2025].
- [P3] Non-destructive Raman spectroscopic analysis of acid rain stress in Neem (*Azadirachta indica*) at International Conference on Advanced Materials and Applications (ICAMA-2024), organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai, India, [October 2024].

## Workshops & Symposiums

- [W1] 3rd International Symposium on Sustainable Fibers and Polymeric Materials, organized jointly by King Mongkut's Institute of Technology, Thailand and University of Portsmouth, United Kingdom [October 2024]
- [W2] 15th User Awareness Workshop on Fabrication & Characterization Facility for Nanotechnology, conducted by Indian Institute of Technology, Delhi, India [June, 2024]
- [W3] Offline Familiarization Workshop on Fabrication & Characterization, organized by School of Nano Science & Technology, IIT Kharagpur. [June 2024].
- [W4] International Symposium on “Progress in Pulsed Laser Technology”, held at National Institute of Technology, Tiruchirappalli, India [September, 2024]
- [W5] One Day International Symposium in Recent Advances in Photonics, held at National Institute of Technology, Tiruchirappalli, India [February, 2024]

## Examination Qualified

- [E1] Qualified JAM-2023 with AIR-845.
- [E2] Qualified CUET-PG 2023.
- [E3] Qualified WB-JEE 2020.
- [E4] Qualified KIITEE 2020.

## Role of Responsibility

### Web Developer and Social Media Coordinator, InPhyNITT

Jan 2024 –

Feb 2024

- Led website development and coordinated a team of developers and designers to ensure smooth digital operations.
- Managed and curated social media content, streamlining workflows to enhance the event's online engagement and digital presence.

## Awards & Achievements

- [A1] Recipient of Outstanding student in M.Sc. Physics at NIT Tiruchirappalli, awarded by RECAL, NIT for the year 2024-25.
- [A2] Recipient of academic proficiency prize for securing second rank in I and II semester of M.Sc. Physics at NIT Tiruchirappalli, during 2023-24.
- [A3] Secured 1st position in college for achieving highest marks in B.Sc. Physics (Hons.) in the year 2023.
- [A4] Recipient of Sabita Dey Memorial Medal for securing highest marks in B.Sc. Physics (Hons.) in final semester.