



# Anirban Jana

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## OBJECTIVE

Work in the field of biophysics and microfluidics in a versatile, challenging work environment to apply my knowledge and develop skills to build a research and innovation career in this prospective field.

## EXPERIENCE

- **PhD Student**, LP2N CNRS, University of Bordeaux, TreeFrog Therapeutics || Bordeaux, France. (Prof. Pierre Nassoy and Kevin Alessandri) Jan 2023-Present
  - Working on the mechanobiology of iPSCs in alginate capsules. The thesis is a CIFRE, co-supervised by the lab and the company.
- **R & D Engineer**, TreeFrog Therapeutics || Pessac, France. Sept 2021-Dec 2022
  - Worked in fluid dynamics, rheology, and flow systems to investigate and optimize the process.
  - As an intern (from Feb-Aug 2021), completed a masters thesis on the electro-hydrodynamics of the encapsulation system.
- **Research Intern**, || PMMH-ESPCI-PSL || Paris, France. (Prof. Anke Lindner) Oct 2020-Jan 2021

*Deformation of soft helices in viscous flows.*

  - Worked to characterize the deformation of soft helices subjected to viscous flow rates.
- **Ludwig Prandtl Intern** || Max Planck Institute for Dynamics and Self-Organization || Göttingen, Germany. (Prof. Corinna Maass) May-Aug 2019

*Self-propelling droplets in Electric Fields.*

  - Experimental and analytical study of active droplet motions in microchannels of different sizes using Particle Image Velocimetry.
- **Bachelor Thesis Project** || Jadavpur University || Kolkata, India. (Prof. Achintya Mukhopadhyay & Prof. Sourav Sarkar) Aug 2019-Mar 2020

*Design optimization of a Thermoacoustic Refrigerator.*

  - Worked on developing a theoretical thermoacoustic refrigerator model using ANSYS Fluent and DELTA EC and tested it on a basic experimental setup.
- **Summer Intern** || Indian Institute of Technology || Kharagpur, India. (Prof. Suman Chakraborty) May 2018-July 2019

*Dynamics of an encapsulated droplet in a confined microflow.*

  - Simulated flow-coupled deformation of a compound droplet in COMSOL Multiphysics using the phase-field method.

## EDUCATION

- **PSL University, Paris, France.**

Sept 2020 - Sept 2021

Master of Sciences in Microfluidics (M2)

GPA: 17.24/20

Ranked 1/13 in the batch.

- **Jadavpur University, Kolkata, India.**

Jul 2016 – Jul 2020

Bachelor in Mechanical Engineering.

GPA: 9.44/10

Ranked 2/110 in the batch.

## SKILLS



AutoCAD, MATLAB, PIVlab, MS Office.



COMSOL, Ansys, Python, Solidworks, ImageJ.

- Professional level in English (TOEFL-113/120), Bengali & Hindi.
- Intermediate level in French.

## OTHER INTERESTS

- Travel, Badminton, Science forums.

## PUBLICATIONS

DOI:

- [10.1063/5.0031807](https://doi.org/10.1063/5.0031807).
- [10.1007/978-981-16-2347-9\\_13](https://doi.org/10.1007/978-981-16-2347-9_13)