

# Ankita Roy Chowdhury

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RESEARCH INTERESTS Vortex Dynamics, Geophysical Fluid Dynamics, Applied Mathematics.

EDUCATION [2022-Present] **Indian Institute of Technology, Hyderabad**  
*Ph.D., Department of Mathematics*  
CGPA: 9.5/10  
Advisor: [Dr. Vikas S. Krishnamurthy](#)

[2019-2021] **Indian Institute of Technology (ISM), Dhanbad**  
*M.Sc., Department of Mathematics & Computing*  
CGPA: 9.53/10 (Passed with First Class)

[2015-2018] **Jadavpur University**  
*B.Sc.(Honors), Mathematics*  
Percentage: 89.42 (Passed with First Class)

RESEARCH EXPERIENCE **Department of Mathematics, IIT Hyderabad**  
❑ **Current Work:** Vortex Equilibrium Solutions of the Incompressible Euler Equation  
*Manuscript under preparation*  
Advisor: [Dr. Vikas S. Krishnamurthy](#) July 2022 - Present

**Department of Mathematics & Computing, IIT(ISM), Dhanbad**  
❑ **Thesis:** Impact of Lockdown on the Transmission of COVID-19 in India  
Advisor: [Prof. Ranjit Kumar Upadhyay](#) January 2021 - May 2021

**International Centre for Theoretical Sciences, ICTS-TIFR, Bangalore**  
*Intern, Summer Research Fellowship Program, 2017*  
❑ **Project:** Phase Space Reconstruction of Nonlinear Systems Based on Data  
Advisor: [Prof. Amit Apte](#) June 2017 - August 2017

CONFERENCES AND WORKSHOPS [May, 2025] **Physics-Driven Machine Learning for Fluid Dynamics with Special Reference to Weather Prediction (Online)**  
ABV-IIITM Gwalior, India  
[February, 2025] **Hydrodynamics and Critical Convection in Liquid Cores of Terrestrial Planets (GIAN course)**  
NIT Warangal, India  
[July, 2024] **Recent Advances in Applied Mathematics (RAAM)**  
IIT (BHU), Varanasi, India  
[June, 2024] **Mathematical Analysis of Fluid Flow Models**  
TIFR-CAM, Bangalore, India  
[December, 2023] **Vortex Dynamics: the Crossroads of Mathematics, Physics and Applications (Online)**  
IASM, Hangzhou, China

ACHIEVEMENTS ❑ All India Rank 25 in CSIR-NET Lectureship (2021)  
❑ All India Rank 278 in GATE, 2021  
❑ All India Rank 374 in IIT-JAM, 2019  
❑ Recipient of INSPIRE scholarship (2015-2018)