Jiten Kumbhakar
Curriculum Vitae

Purulia, West Bengal, India, 723148
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✉ jk17ip021@iiserkol.ac.in

Education

July 2017-Current	**Integrated Ph.D.**, PMRF Fellow, Indian Institute of Science Education and Research (IISER), Kolkata, West Bengal, India

- **Research Area:** Control of PDEs.
- **Supervisor:** Dr. Shirshendu Chowdhury

July 2014-May 2017	**B.Sc. in Mathematics**, Percentage: 88.5%, Jagannath Kishore College, Purulia, West Bengal, India
2012-2014	**Higher Secondary in Science**, Percentage: 81%, Purulia M.M. High School, Purulia, West Bengal, India
2012	**Class 10th**, Percentage: 80.7%, Ladhurka High School (H.S), Purulia, West Bengal, India

Honors & Awards

PMRF, Prime Minister Research Fellow at IISER Kolkata

Gold Medalist, Shakti Sadhan Basu Memorial Medal and prize
Awarded for highest marks in B.Sc in Mathematics among all students in Purulia District

Gold Medalist, Manindralal Banerjee Memorial Prize
Awarded for highest marks in B.Sc in Arts, Science and Commerce among all students in Purulia District

CSIR JRF (Dec 2018), Got 98th rank in the NET exam conducted by CSIR

JAM (2017), Got 38th rank in the JAM exam in mathematics and got 72th rank in statistics

Course Projects

- **Master's Thesis**
  Project Title: Controllability of ODE, Heat Equation and Navier-Stokes Equations.
  The project is mainly based on proving null controllability for ODE and Heat equation and lack of null controllability but positive aprroximate controllability for linearized compressible Navier-Stokes equations in one dimension using method of moments.

Teaching Assistant

Current	**Mathematics II**, 1st year undergraduate, IISER Kolkata

- **Instructor:** Dr. Anirban Banerjee

April 2022	**Research Methodology**, NPTEL

- **Instructor:** Dr. Soumitro Banerjee

Autumn 2021	**Mathematics I**, 1st year undergraduate, IISER Kolkata

- **Instructor:** Dr. Saugata Bandyopadhyay

Spring 2021	**Mathematics II**, 1st year undergraduate, IISER Kolkata

- **Instructor:** Dr. Shirshendu Chowdhury

Spring 2021	**Analysis II**, 2nd year undergraduate, IISER Kolkata
	○ **Instructor:** Dr. Sushil Gorai
Spring 2020	**Mathematics II**, 1st year undergraduate, IISER Kolkata
	○ **Instructor:** Dr. Shirshendu Chowdhury
Autumn 2019	**Analysis III**, 3rd year undergraduate, IISER Kolkata
	○ **Instructor:** Dr. Shirshendu Chowdhury

Teaching

July-December 2021	**Class 11**, *Jawahar Navodaya Vidyalaya, Kalyani, Nadia, West Bengal, India*

Workshops

○ Speaker: Dr. Ujjwal Koley, TIFR CAM
Title: Convex integration solutions for the transport equation
Date: November 08, 2021- November 18, 2021

○ Speaker: Professor Bernard Dacorogna, EPFL, Switzerland
Title: Short Course in Calculus of Variations
Date: January 28- February 01, 2019

Seminars

○ Null and Approximate controllability of Heat equation in one dimension
using the method of Flatness
Weekly Research Seminar, Organized by Mythily Ramaswamy, TIFR-ICTS Bangalore
Date: August 05, 2021

PrePrints

○ Kuntal Bhandari, Shirshendu Chowdhury, Rajib Dutta, Jiten Kumbhakar, *Boundary Null-Controllability of 1d Linearized Compressible Navier-Stokes System by One Control Force*, `https://arxiv.org/abs/2204.02375`.
Current Status: Submitted.

References

○ **Supervisor: Dr. Shirshendu Chowdhury**
Assistant Professor
Department of Mathematics and Statistics
IISER Kolkata
West Bengal, India
Email. shirshendu@iiserkol.ac.in
Webpage: `https://math.iiserkol.ac.in/faculties/shirshendu.html`

Declaration: I hereby declare that all the statements made herein are true to my best of knowledge and belief.

Place: Kolkata

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