Jiten Kumbhakar

Curriculum Vitae

Purulia, West Bengal, India, 723148 ■ +91 7001440919 ■ jk17ip021@iiserkol.ac.in

Education

- July 2017- Integrated Ph.D., PMRF Fellow, Indian Institute of Science Education and Current Research (IISER), Kolkata, West Bengal, India
 - Research Area: Control of PDEs.
 - Supervisor: Dr. Shirshendu Chowdhury
- July 2014- B.Sc. in Mathematics, Percentage: 88.9%, Jagannath Kishore College, Pu-
- May 2017 rulia, 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 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, Got 98th rank in the NET exam conducted by CSIR

 ${\bf JAM},$ 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 approximate controllability for linearized compressible Navier-Stokes equations in one dimension using method of moments.

Teaching Assistant

Autumn Mathematics II, 1st year undergraduate, IISER Kolkata 2021

• 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 **Analysis III**, 3rd year undergraduate, IISER Kolkata 2019
 - Instructor: Dr. Shirshendu Chowdhury

Reading Courses

Control Theory

• Main Book: Control and Nonlinearity by Jean-Michel Coron

Functional Analysis and Partial Differential Equations

- Book 1: Partial Differential Equations by Lawrence C. Evans.
- Book 2: Functional Analysis, Sobolev Spaces and Partial Differential Equations by Haim Brezis

Workshops

• 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
- Weierstrass Approximation Theorem and its applications, IISER Kolkata Date: August 31, 2018

References

• Supervisor: Dr. Shirshendu Chowdhury Department of Mathematics Faculty IISER Kolkata West Bengal, India shirshendu@iiserkol.ac.in

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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