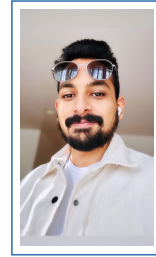


Atul Anurag

Curriculum Vitae

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Education

- 2012–2015 **Bachelor of Science in Mathematics**, *Ramjas College*, Department of Mathematical Sciences, University of Delhi
New Delhi
- 2015–2017 **Master of Science in Applied Mathematics**, *National Institute of Technology*, Warangal, Telangana, Pulsatile Flow in a Circular Rigid Tube
Advisor: P. Muthu
- 2019–Present **PhD in Applied Mathematics**, *New Jersey Institute of Technology*, Newark, NJ, USA, Generalization of Leapfrogging orbits of Point Vortices
Advisor: Roy Goodman

Conferences

Talks

- June 2021 **Walking Droplet Dynamics Research**, Summer Talk
New Jersey Institute of Technology
- May 2022 **Frontiers in Applied and Computational Mathematics**, Volunteer
New Jersey Institute of Technology
- January 2023 **Generalization of Leapfrogging orbits of Point Vortices**, Thesis Proposal Defense
New Jersey Institute of Technology
- March 2023 **Second Drexel Waves Workshop**, Attendee
Drexel University
- May 2023 **Frontiers in Applied and Computational Mathematics**, Volunteer, Attendee.
New Jersey Institute of Technology

- June 2023 **Mathematical Problems in Industry Workshop** , Problem Solver
New Jersey Institute of Technology
- July 2023 **Continuation of periodic orbits in symmetric Hamiltonian and conservative systems**, Summer Talk
New Jersey Institute of Technology
- October 2023 **Continuation of periodic orbits in symmetric Hamiltonian and conservative systems**, SIAM, Poster Presenter
New Jersey Institute of Technology

Experience

Internships

- Summer 2014 **Laplace transformation and its Applications**, *TIFR-CAM*, Bangalore, India, Worked on Image Processing Problems.
Advisor: K. T. Joseph
- Summer 2018 **Operator Theory, Analysis of Non-linear PDE's**, IIT, New Delhi, India
Advisor: Ashish Kumar Pandey

Skills

- Programming Languages PYTHON , MATLAB , AUTO-BIFURCATION SOFTWARE

Teaching

- Fall 2019 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT, My solutions to the previous exams on Calculus I, II can be found below
Calculus I, II.
- Spring 2020 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT.
- Fall 2020 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT.
- Spring 2021 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT.
- Fall 2021 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT.
- Spring 2022 **Recitation leader for Calculus I, II**, *Undergraduate*, NJIT.
- Fall 2022 - Present **Research Assistant**, *Ph.D. in Applied Mathematics*, NJIT.

Awards and Honors

IIT-JAM **Secured ALL INDIA RANK-354**, *IIT-JAM*, Mathematics, 2015
Joint Admission Test in Masters is conducted by the Indian Institute of Technology every year.

CSIR-NET/JRF **Secured ALL INDIA RANK-46**, *CSIR*, NET/JRF (Mathematics), 2018
This test is held twice every year in India. Top 100-150 students are funded for their PhD.

Languages

Hindi, English and Gadwali
Fluent

Interests and Activities

Reading Books, Solving Problems, Writing a blog atulanurag.com, Cricket, Travelling, Photography.

Leadership Skills

Jul 2015 **Class Representative (M.Sc.)**, *Department of Mathematics*,
-2017 *National Institute of Technology*, Warangal, India.

Volunteer for various International Conferences held in the Mathematics Department, National Institute of Technology

June 2022 - **Society for Industrial and Applied Mathematics**, *NJIT*, NJ,
Present USA.

Vice-President