# Atul Anurag

*Curriculum Vitae*

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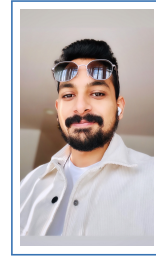
## Education

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

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## Conferences

### Talks

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

| June 2023 | **Mathematical Problems in Industry Workshop** , Problem Solver |
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| | 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. |
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| | Advisor: K. T. Joseph |
| Summer 2018 | **Operator Theory, Analysis of Non-linear PDE's**, IIIT, New Delhi, India |
| | Advisor: Ashish Kumar Pandey |

## Skills

| Programming Languages | Python , Matlab , Auto-Bifurcation Software |
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## 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 |
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| | 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 -2017**  **Class Representative (M.Sc.)**, *Department of Mathematics, National Institute of Technology*, Warangal, India.
Volunteer for various International Conferences held in the Mathematics Department, National Institute of Technology

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