

Ojas G Bhagavath

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 [Personal Webpage](#)
 ojas.bhagavath@ou.edu
 ojas.bhagavath@gmail.com
 [LinkedIn Profile](#)

Summary

PhD student in Mathematics at the University of Oklahoma, with research interests in Algebra, Geometry, and their intersections.

Education

PhD in Mathematics (2025–present)

- At [University of Oklahoma](#), OK, United States.

MSc in Mathematics (2022–2024)

- At [IISER Thiruvananthapuram](#), Kerala, India.

BSc in Physical Sciences (2019–2022)

- At [University of Mysore](#), Karnataka, India.

Research and Work Experience

Graduate Teaching Assistant (2025–present)

- Graduate Teaching Assistant at the [Department of Mathematics](#), University of Oklahoma. Currently, the primary role at this position is to work with course instructors of undergraduate level mathematics courses to grade quizzes and assignments.

Mathematics Tutor (2025–present)

- Tutor at [Math Center](#) at the University of Oklahoma. My role at this position is to help undergraduate students with their coursework.

Junior Research Fellow (2024–2025)

- I was working as a Junior Research Fellow on a research project in Algebraic Geometry at the [Department of Mathematics](#), [IIT Gandhinagar](#). The project was related to with the intersection theory in algebraic geometry, supervised by [Prof. Tanya Srivastava](#).

Math Expert (2020–2022)

- I worked as a freelance math expert at the ed-tech company [Photomath](#). At this position, I have written step-by-step explanatory solutions for over a thousand problems, covering topics such as Algebra, Geometry, Statistics, and Calculus.

Scholastic Achievements

CSIR NET/JRF Mathematics

(2024, 2023)

- All India Rank of 77 (99.56 percentile) in the JRF list in CSIR NET Mathematics Dec 2024.
- All India Rank of 63 (98.97 percentile) in the JRF list in CSIR NET Mathematics Dec 2023.
- All India Rank of 31 (99.92 percentile) in the LS list in CSIR NET Mathematics Jun 2023.

GATE Mathematics

(2024, 2023)

- All India Rank of 138 (98.97 percentile) in GATE Mathematics 2024.
- All India Rank of 328 (97.37 percentile) in GATE Mathematics 2023.

NBHM Scholarship

(2023)

- Selected for the grant of the NBHM Doctoral Scholarship 2023. (not availed)
- Selected for the grant of the NBHM Master's Scholarship 2023. (availed)

IIT JAM Mathematics

(2022)

- All India Rank of 455 (96.42 percentile) in GATE Mathematics 2024.

Events Attended

Lean for the Curious Mathematician

ICTS Bangalore, India, Spring 2025

- A three-day-long discussion meeting on Lean theorem prover and formalisation of mathematics using Lean with experts in Lean and formalisation from around the world.

Lie Groups and Representation Theory Workshop

IISER Berhampur, India, Winter 2024

- A nine-day-long workshop hosting expert mathematicians from across the country, with discussions and lectures on Representation Theory of Lie Groups and other related topics.

Seminar Series on Invariant Theory

IIT Gandhinagar, India, Fall 2024

- A semester-long seminar series by various professors delving into algebraic and geometric aspects of invariant theory.

Annual Foundation School (AFS) II

IISER Bhopal, India, Summer 2024

- A month-long workshop designed to get graduate students familiar with basic topics required during their higher studies and research.

Frontier Symposium in Mathematics

IISER TVM, India, Winter 2023

- A three-day-long symposium that hosts leading researchers from across the world, where they discuss about the cutting-edge mathematical research.

Skills

Technical:

- Programming: Python, Lua, Lean, Javascript.
- Markup: Typst, LaTeX, HTML, Markdown.
- Other: Comfortable with Git version control, UNIX-like workflow, and Shell scripting.