

Milap Rajgor

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Education

- 2024 – present  **PhD Mathematics, The University of Tennessee - Knoxville**
Graduate Teaching Associate ; Graduate Research Assistant
Research interests in applied topology, topological data analysis, and math-bio.
- 2021 – 2024  **MS. Mathematics, Indian Institute of Science Education and Research, Berhampur**
CGPA: 9.35/10
- 2017 – 2020  **B.Sc. Mathematics, The Maharaja Sayajirao University of Baroda, Gujarat**
Overall CGPA: 8.53/10.
CGPA in Mathematics: 9.0/10

Projects

- Aug '23 - March '24  Master's Thesis on "**Geometric Analysis of Bergman Kernel and Bergman Metric**" under the supervision of Dr. Ratna Pal, Assistant Professor, IISER Mohali.
- Aug-Dec 2022  Did a Reading project on "**Hausdorff Measure and Dimension**" under the Supervision of Dr. Senthil Raani, Assistant Professor, IISER Berhampur.

Academic Achievements And Awards

- 2019  **12th Rank in Professor A.R. Rao Mathematics Competition** state level exam for Third Year B.Sc Students organized by Gujarat Ganit Mandal.
-  **1st Prize in Minaxi Lalit Science Award-2020** (State Level) conducted by Gujarat University held on October 13, 2019.
- 2021  All India Rank **94** in **Joint Admission Test for Masters (JAM)**, conducted by IISc Bangalore.
-  Awarded Institute Fellowship at IISERBPR

Mathematics Lectures, workshops and summer schools:

- 2018  **Mini-MTTS**, funded by NBHM, RIE Ajmer (September – 2018). (1 week program)
-  5th State level Workshop on **Problem Solving and Enrichment in Mathematics**, Ahmedabad (December-2018).
- 2019  **Mathematics Training and Talent Search Programme 2020** (LEVEL 0) at RIE AJMER held from June–July 2019.(4 week Program)
-  6th State level Workshop on **Problem Solving and Enrichment in Mathematics**, Ahmedabad (December-2019).
- 2020  **Mathematics Training and Talent Search Programme 2020** (LEVEL 1) held from June–July 2020.(4 week Program)

Mathematics Lectures, workshops and summer schools: (continued)

- 2022  **Annual Foundation School** organized by IIT Bombay and TIFR at Mepco College (Sivakasi) held from Dec 21-Jan 22 (4 week Program)
- 2022  **Mathematics Training and Talent Search Programme 2020** (LEVEL 2) At IISER Trivandrum held from June– July 2022. (4 week Program)
- 2026  **SL-Math**, Summer school in Geometric Measure Theory at Berkeley, CA (2 week program)

Seminars/Presentations given:

- 2021  Presented the proof of " $\int_{-\infty}^{\infty} \frac{\sin x}{x} dx = \pi$ " in Complex Analysis course in the first semester of Masters
- 2022  Presented proof of "**Baire category theorem and Uniform Boundedness Principal**" in 'Functional Analysis' course in the fourth semester of Masters
- 2022  Presented the proof of "**Transcendence of 'e'**" in 'Field and Galois theory' course in the third semester of Masters
- 2022  Presented the proof of "**Urysohn's Lemma**" in MTTS Summer Camp at IISER TVM
- 2022  Presented "**Rolle's theorem using Nested Intervals**" in VSSP (Virtual Student Seminar Program) 2022 Organized by 'Curryleaf Club of Mathematics'

Extra curricular activities

- 2019  Participated and Volunteered in **Open House and Science Fair** organized by the Maharaja Sayajirao University of Baroda, Gujarat from March 11-12, 2019.
- 2019  Participated in the National Level **Madhava Mathematics Competition** in Jan 2019
- 2020  Participated in the National Level **Madhava Mathematics Competition** in Jan 2020
- 2022  Content Creator of Math Club **Project Spiral** of IISER BPR from Dec 2021 to Dec 2022
- 2022  Participated in the **Simon Marais International Mathematics Competition** in 2022
- 2023  Participated in **Kyrat 2022 and Kyrat 2023**, Annual Fest of IISER BPR in March 2022 and 2023

Miscellaneous

- Languages  English, Hindi, Gujarati
- Software  $\text{\LaTeX}$, C++, Python
- Hobbies  Playing Chess, Yoga-Meditation, Trekking