

# Shrivathsa Pandelu

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## Education

- 2022-Present, Mathematics PhD, University of Minnesota, Twin Cities
- 2020-2022, Master of Mathematics (Hons.) from Indian Statistical Institute, Kolkata
- 2017-2020, Bachelor of Mathematics (Hons.) from Indian Statistical Institute, Bangalore

## Research Interests

Algebraic and Differential Topology, Homological Algebra, Algebraic Geometry

## Teaching and Mentoring Experience

- Fall 2022, two sections of MATH 1271 Calculus I
- Fall 2022, mentored a DRP (Directed Reading Program) student on some category theory

## Academic Activities

- Oct 2021 - Jan 2022, Project work under Prof. Mahuya Datta related to Morse Theory, ISI Kolkata. Some related documents (presentation and notes) can be found [here](#).
- May-July 2020, Worked independently on a proof of Jordan Curve Theorem and submitted it to The Mathematics Student. The proof can be found here: [link](#)<sup>1</sup>
- November 2019, Serre's Course in Arithmetic reading project under Prof Maneesh Thankur, ISI Bangalore
- April 2019, Visiting Students' Research Program at Tata Institute of Fundamental Research, Algebraic Geometry under Prof Yogish Holla, TIFR, Bombay
- Provided solutions to Graph Theory course under Prof Yogeshwaran Dhandapani, ISI Bangalore, Solutions can be found [here](#), [course notes](#)
- Notes and expositions I have written can be found on my [website](#)<sup>2</sup>.

## Talks

- ISI Student Lecture Series 2021, (Online) Talk on Baire Category Theorems and applications to Functional Analysis, [Slides](#), [Video](#)

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<sup>1</sup>Proof link: <https://shrivathsap.github.io/resources/pdfs/topgeom/even%20better.pdf>

<sup>2</sup>My notes: <https://shrivathsap.github.io/notes.html>

## Achievements

- General GRE 2019 score: 336/346  
*Verbal reasoning: 162/170, Quantitative reasoning: 170/170, Analytical writing: 4/6*  
GRE Maths 2019: 890 (92 percentile)  
TOEFL iBT 2021 score: 116/120  
*Reading: 30/30, Listening: 30/30, Speaking: 27/30, Writing: 29/30*
- S. H. Aravind gold medal for outstanding performance in BMath (Hons.) from ISI, Bangalore
- Passed First Division with Distinction in BMath (Hons.) with 96.5% overall score.
- Madhava Mathematics Competition, 2020, secured 1st prize (all India) for scoring 83 out of 100.
- Simon-Marais Mathematics Competition, 2019, secured 7th position overall (out of 393 individual entries, Asia-Pacific region) and the Stonehage Fleming/Marais Prize
- Madhava Mathematics competition, 2019 and received a cheer prize for scoring 67 out of 100 with rank 12 (all India)
- Simon-Marais Mathematics Competition, 2018, arrived in the top quartile (individual entry) out of 891 students (Asia-Pacific region)
- Entrance exams: All India Rank (AIR) 693 in JEE Mains, AIR 1827 in JEE Advanced, Karnataka State Rank 30 in Karnataka Common Entrance Test for engineering colleges
- Scored Distinction with 97% in Pre University Education.
- 10 CGPA in class 10 under the CBSE

## Other Skills and Interests

- Running, Badminton, Table tennis and chess
- Pencil sketching, Keyboard, Photography, flute and water colour painting
- Skilled in Python, C,  $\LaTeX$ , Javascript, Inkscape and a beginner in Java & R
- Fluent in English, Kannada, Hindi and I have studied Sanskrit
- [Math Stack Exchange profile](#), [GitHub profile](#)