Shrivathsa Pandelu

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Education

- 2020-2022, Master of Mathematics (Hons.) from Indian Statistical Institute, Kolkata (ongoing)

  - First semester: *Algebra I:* 100/100, *Analysis of Several Variables:* 100/100, *Topology I:* 100/100, *Measure Theoretic Probability:* 86/100, *Linear Algebra:* 90/100
  - Second semester: *Algebra II:* 100/100, *Complex Analysis:* 90/100, *Topology II:* 98/100, *Functional Analysis:* 100/100, *Differential Geometry:* 86/100

- 2017-2020, Bachelor of Mathematics (Hons.) from Indian Statistical Institute, Bangalore

  - First semester: *Analysis I:* 100/100, *Algebra I:* 93/100, *Probability Theory I:* 95/100, *Computer Science I:* 96/100
  - Second semester: *Analysis II:* 100/100, *Algebra II:* 97/100, *Probability Theory II:* 99/100, *Physics I:* 94/100
  - Third semester: *Analysis III:* 93/100, *Statistics I:* 90/100, *Optimization:* 95/100, *Algebra III:* 100/100, *Physics II:* 94/100
  - Fourth semester: *Graph Theory:* 97/100, *Algebra IV:* 100/100, *Topology:* 99/100, *Statistics II:* 85/100, *Computer Science II:* 97/100
  - Fifth semester: *Differential Geometry:* 98/100, *Statistics III:* 100/100, *Complex Analysis:* 100/ 100, *Physics III:* 90/100, *Algebraic Number Theory:* 99/100
  - Sixth semester: *Physics IV:* 96/100, *Analysis IV:* 98/100, *Differential Equations:* 97/100, *Representation Theory:* 100/100, *Differential Geometry II:* 100/100, *Algebraic Geometry:* 100/100

- 2015-2017, Pre University Course from Deeksha Centre for Learning, Bangalore, under Karnataka State PU Education Board

  - 581/600, 97%

- 2005-2015, School, Sri Jnanakshi Vidyaniketan, Bangalore, under CBSE

  - CGPA: 10/10; A1 in all subjects in X Class

Research Interests

Algebraic and Differential Topology, Homological Algebra, Algebraic Geometry

Academic Activities

- Ongoing project work under Prof. Mahuya Datta related to Morse Theory, ISI Kolkata. Some related documents (a presentation, some notes and a small result) can be found here.

- May-July 2020, Worked independently on a proof of Jordan Curve Theorem and submitted (pending review) it to The Mathematics Student. The proof can be found here: link[1]
- 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[2] .

Talks

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

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
- 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

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[1] proof link: https://svok33.github.io/resources/pdfs/topgeom/even%20better.pdf
[2] My notes:https://svok33.github.io/writings