

CURRICULUM VITAE

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Date of Birth: 5th November 1991



Educational Qualifications:

Degree	Name of Institution	Month and Year of Passing	Percentage/ GPA	Grade
MSc.	Department of Mathematics – University of Pune	July 2014	435/600 (GPA) (63.45 %)	B
BSc. i. TYBSc ii. SYBSc iii. FYBSc	Chowgule College – Goa University	May 2012	i. 74.00 ii. 82.36 iii. 78.40	Distinction
HSSCE	GMHSS, Borda – Goa Board	May 2009	66.33	First Class
SSCE	Loyola High School – Goa Board	May 2007	67.06	First Class

Other Academic Achievements: (In chronological order)

- ❖ 2nd Rank in XIIth Science (HSSCE) in GMHSS-Borda, with highest aggregate in Maths and Physics.
- ❖ Among top 3 rankers in BSc. in Chowgule College during the first four semesters.
- ❖ IIT-JAM Mathematics 2012 Qualified candidate with AIR 340 (GEN).
- ❖ 2nd Rank in TYBSc. Mathematics Exam of Goa University.

Projects Completed:

- ❖ Successfully completed (Individually) BSc. Mathematics thesis titled "*Some Methods of Cryptography*" for the award of BSc. degree under the Guidance of Mr. Anand Masur (Lecturer, Chowgule College –Goa University).

Professional Exams Cleared:

- ★ **MH-SET 26 September 2021:** State Eligibility Test for Lectureship in Mathematics paper for the states of Maharashtra and Goa.
- ★ **GATE 2022:** Mathematics (MA) with AIR 1692.

Research Interests:

- Linear Algebra and its Applications
- Dynamical Systems
- Mathematics of Data Science and AI & ML
- Financial Mathematics
- Fourier Analysis and Applications
- Operations Research
- Partial Differential Equations and Applications

Teaching Experience:

- **Parvatibai Chowgule College:** July 2014 to April 2019 (lecture basis)
- **Govt. College Quepem:** July 2018 to November 2018 (lecture basis)
- **Parvatibai Chowgule College:** July 2019 to August 2021 (contract basis)
- **Parvatibai Chowgule College:** August 2022 to April 2023 (Lecture basis)

Workshops Attended:

- 1) **Advanced Workshop on Computational Methods for Integral Equations & Applications (AWCMIEA 2014)** at IIT Kanpur from 13th-17th January 2014 organized under the **NPDE–TCA Program**.
- 2) **NPDE-TCA Postgraduate Level Training Program 2014** held at IIT Guwahati from 2nd-21st June 2014 organized under the **NPDE-TCA Program**.
- 3) **NPDE-TCA Advanced Level Training Program 2015** held at BITS-Pilani Goa campus from 25th May-13th June 2015 organized under the **NPDE-TCA Program**.
- 4) **Workshop on Analysis, Differential Equations & Computation** held at BITS Pilani KK Birla Goa Campus during November 12-13, 2022.
- 5) **Prof. D. B. Wagh Endowment Lecture and One Day Mathematics Symposium** organized by the Mathematics Discipline, School of Physical and Applied Sciences, Goa University on 28th November 2022.

Conferences Attended:

- 1) **Conference on Computational and Theoretical PDE** at NIT Goa from 5th-7th October 2016.
- 2) **International Conference on Algebra and Analysis** at Savitribai Phule Pune University, Pune from 19th to 22nd December 2017.

Internships Done:

- 1) **National Network for Mathematical & Computational Biology (NNMCB) 2014:**

Organized by IISc Bangalore and IISER Pune. Worked under Dr Joby Joseph of Centre for Neural and Cognitive Sciences (CNCS), University of Hyderabad, in the field of Computational Neuroscience during November-December 2014.

Talks given:

- Lecture series in Numerical Analysis for Dept. of Physics, Parvatibai Chowgule College.

Study Tours Conducted for Mathematics Department of Parvatibai Chowgule College:

- 1) Visit to IMSc Chennai in June 2017
- 2) Visit to IISc Bangalore in July 2017
- 3) Visit to Savitribai Phule Pune University and IIT Bombay in February 2018.

4) Visit to IISc Bangalore in February 2020

Workshops Organised:

1) Prof D. B. Wagh Memorial Lecture Series from 17 February 2020 to 20 February 2020 at Parvatibai Chowgule College, Goa. Funded by The Mathematics Consortium, Pune. Four Speakers were invited;

1. Prof V Sholapurkar, S.P. College Pune.
2. Prof H Bhate, Department of Mathematics, Savitiribai Phule Pune University.
3. Prof AJ Jayanthan, Department of Mathematics, Goa University.
4. Prof V Patankar, Department of Mathematics, BITS Pilani, Goa Campus.

NPTEL Online Courses Completed:

- 1) **Linear Algebra** by Prof Dilip Patil, IISc Bangalore in October 2021 with FDP certificate
- 2) **First Course on Partial Differential Equations-I** by Prof A.K. Nandakumaran (IISc Bangalore) and Prof P.S. Datti (TIFR CAM Bangalore) in March 2022 with Elite FDP Certificate.
- 3) **Functional Analysis** by Prof S Kesavan in April 2022 with FDP Certificate.
- 4) **First Course on Partial Differential Equations-II** by Prof A.K. Nandakumaran (IISc Bangalore) and Prof P.S. Datti (TIFR CAM Bangalore) in September 2022 with Elite FDP Certificate.
- 5) **Galois Theory** by Prof Dilip Patil, IISc Bangalore in October 2022 with FDP certificate.
- 6) **Applied Linear Algebra in AI and ML** by Prof Swanand Khare in April 2023 with Elite FDP Certificate.
- 7) **Computational Mathematics with SageMath** by Prof Ajit Kumar in April 2023 with Elite FDP Certificate.

Professional Skills:

- ◆ Good analytic and understanding abilities of calculus-based subjects.
- ◆ Ability to teach and explain mathematical concepts for any audience.
- ◆ Ability to use a pedagogical approach according to audience understanding level and taste.
- ◆ Giving adequate weight age to real world applications of the topic being discussed.
- ◆ Excellent programming skills in LATEX Software for mathematical typing.

Programming Languages / Softwares known:

- Java
- LaTeX
- MATLAB/Sci Lab
- Python

Hobbies:

- Photography
- General Knowledge and Quizzing

Languages known: English, Konkani, Hindi, French, Marathi.

ROVAN JONATHAN VAZ

11th July 2023