

CURRICULUM VITAE

(Updated 24/06/2026)

“शिक्षक कभी साधारण नहीं होता, प्रलय और निर्माण दोनों उसकी गोदी में खेलते हैं।”

“A teacher is never ordinary — both destruction and creation play in his lap.”
— Acharya Chanakya

Name: Harsh Pareshbhai Kothari	Date of Birth: 03/02/1996
Sex: Male	Category: Open
Marital Status: Unmarried	Phone: 7383332109, 9428050226
Email: harshkothari.hk.1234@gmail.com	Research Area: Approximation Theory, Special Functions, Analysis

RESEARCH INTEREST

My research centers on Approximation Theory, Special Functions, and Mathematical Analysis — particularly the construction, convergence behaviour, and graphical/computational study of positive linear operators (Lupaş-type, Szász-Mirakyan-type, and their Stancu/King-type modifications). This work sits at the intersection of classical analysis and modern computation, an intersection that grows only more relevant in the age of data-driven intelligence.

“Every large language model is, underneath its language, a vast exercise in linear algebra, probability, and optimization — a quiet reminder that mathematics remains the mother tongue of machine intelligence.”

TECHNICAL SKILLS

Python, MATLAB, LaTeX, Mathematica / Maple — used for numerical simulation, symbolic computation, graphical analysis of approximation operators, and technical/research documentation.

EDUCATIONAL QUALIFICATION

No.	Degree	University/Board	Year	Remark
1	S.S.C.	GSEB	2011	—
2	H.S.C.	NIOS	2014	Science Stream
3	B.Sc. (Mathematics)	Gujarat University	2017	Outstanding Performance
4	M.Sc. (Mathematics)	Sardar Patel University	2019	First Class
5	Ph.D. (Mathematics)	Gujarat Technological University	2021	Final Viva-Voce Pending

WORK / RESEARCH EXPERIENCE

N o.	Institute	Position	Period	Subject Taught
1	Indian Institute of Teacher Education (IITE)	Visiting Faculty	19/07/2019 – 19/10/2019	Linear Algebra, Advanced Linear Algebra, Vector Calculus
2	Saurashtra University (Dept. of Mathematics)	Assistant Professor (Contractual)	06/01/2020 – 30/09/2020	Integration Theory, Complex Analysis

N o.	Institute	Position	Period	Subject Taught
3	Atmiya University	Visiting Faculty	2019 – 2020	Statistical Method
4	Virani Science College	Visiting Faculty	2019 – 2020	Statistical Method
5	N V Patel College of Pure and Applied Sciences (CVM University)	Assistant Professor	09/09/2022 – 31/05/2023	Complex Analysis, Bio-Statistics, Numerical Analysis, Topology, Operation Research
6	Sardar Patel College of Administration & Management, SPEC	Assistant Professor	01/06/2023 – Till date	Computer Oriented Numerical Methods, Business Mathematics, Business Statistics, Statistics for Management, Operation Research

PAPER PUBLISHED & PAPER PRESENTATION IN CONFERENCE

- Comparative Study and Graphical Representation of Certain Linear Positive Operators and Their King-Type Modification — Advanced Studies in Contemporary Mathematics (ASCM) [Scopus]
- Approximation Using Generalization of Lupaş Operators — Applied Mathematics E-Notes (AMEN) [Scopus]
- Uniform Approximation with Lupaş Operators Preserving Exponential Functions — Palestine Journal of Mathematics (PJM) [Scopus]
- Stancu-Type Modification of Generalized Lupaş Operators — Indian Journal of Natural Sciences
- A Generalization of Szász-Type Operators Including Stirling Polynomial — FILOMAT

SEMINARS / SUMMER SCHOOLS / WORKSHOPS ATTENDED

N o.	Programme	Level	Organized By	Duration
1	Madhava Nurture Camp	National	St. Xavier's College	30/05/2016 – 04/05/2016
2	Mathematics Training and Talent Search Programme (MTTS)	National	NBHM	22/05/2017 – 17/06/2017
3	1st Problem Solving & Enrichment in Mathematics	National	Ahmedabad Ganit Mandal	27–28/12/2014
4	2nd Workshop on Problem Solving and Enrichment in Mathematics	National	St. Xavier's College	30/12/2015 – 01/01/2016
5	3rd Workshop on Problem Solving & Enrichment in Mathematics	National	St. Xavier's College	27–30/12/2016
6	4th State Level Workshop on Problem Solving & Enrichment in Mathematics	State	St. Xavier's College	24–27/12/2017
7	MIMAMSA (Quiz)	National	IISER Pune	10/01/2016
8	Personal Growth Oriented Programme	State	St. Xavier's College	2014–15
9	National Workshop on Problem Solving in Mathematics – IX	National	Sardar Patel University	02–07/05/2018

CONFERENCES ATTENDED

- UGC-SAP-DRS-III Sponsored International Conference on Banach Algebras, Harmonic Analysis, and Operator Theory — 20–22 November 2018.
- International Conference on Algebra, Analysis and Applications — presented “A Study on Some Results of Uniform Approximation by Positive Linear Operator on Non-Compact Intervals through Graphical Method,” organized by Dept. of Mathematics, Manipal Institute of Technology, MAHE, 06–08 January 2023.
- 3rd International Conference – Women in Science & Technology: Creating Sustainable Career — presented “Stancu-Type Modifications of Generalized Lupaş Operators,” organized by CVM's Birla Vishvakarma Mahavidyalaya, 28–30 December 2023.

ACHIEVEMENTS & AWARDS

N o.	Exam Name	Prize / Rank / Certificate	Year
1	Professor A.R. Rao Mathematics Competition	Certificate of Appreciation	2017
2	Madhava Mathematics Competition	Certificate of Participation	13/12/2015
3	Professor A.R. Rao Mathematics Competition (M.Sc.)	2nd Prize	2018
4	Madhava Mathematics Competition	Certificate of Participation	08/01/2017

LECTURES / SESSIONS DELIVERED

- Delivered a lecture as Resource Person in Training for the UGC-NET Examination on 6th October 2019 at the Indian Institute of Teacher Education (IITE).

WEBINARS & FDP ATTENDED

N o.	Organized By	Designation Held	Level	Title
1	Gogte Institute of Technology	Asst. Professor (Contractual), Saurashtra University	National	Rocket Propulsion (Shri Vishnupant Misale, ISRO Scientist)
2	M.S. University of Baroda, Vadodara	Asst. Professor (Contractual), Saurashtra University	International	Sudoku: Fun and Serious Mathematics
3	Bankura University	Asst. Professor, Saurashtra University	International	Two-Day Webinar on Algebra, Analysis & Topology
4	Hooghly Mohsin College	Asst. Professor, Saurashtra University	National	State Level Webinar on Complex Analysis and Vector Spaces
5	Sardar Patel University	Assistant Professor	National	FDP – NEP 2020 Orientation & Sensitization Programme
6	Sardar Patel Education Campus	Assistant Professor	National	FDP – Personality Development Programme

MEMBERSHIP

- Gujarat Ganit Mandal (GGM) — Member

ACTIVITIES

- Guided students of IITE in preparation for the Prof. A.R. Rao Examination.
- Regularly attended weekly Departmental Research Seminars, where faculty and research students present ongoing work.
- Participated in the Cricket Tournament organized by the Mathematics Association, December 2017 — member of the Champion Team.
- Participated in the St. Xavier's College Sports Festival as Captain of the Cricket team.
- Guided students of Std. 8th, 9th, and 10th for RMO and International Olympiad examinations.

REFERENCE

Dr. Rajiv Biharilal Gandhi

Assistant Professor, Department of Mathematics

Birla Vishvakarma Mahavidyalaya

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