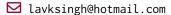
Lav Kumar Singh, Ph.D.



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Employment History

01.04.2025-present	Assistant with a doctoral degree (Post-doc), Institute of Mathematics, Physics and Mechanics (IMFM), Ljubljana (Slovenia).
01.07.2024 - 31.03.2025	Assistant Professor, Madhav Institute of Technology and Science- Gwalior (M.P).
13.03.2023 - 30.06.2024	Post-Doc Fellow, Indian Institute of Science Education and Research, Bhopal (M.P).
23.12.2022 - 28.02.2023	Research Associate, Indian Institute of Technology, Hyderabad (Telangana).
25.07.2022 - 24.10.2022	Research Associate , Indian Institute of Technology, Gandhinagar (Gujrat).

Education

2017 – 2022	Ph.D, Jawaharlal Nehru University Thesis title: On Arens Regularity of the projective tensor product of Schatten spaces.
2014 – 2016	M.Sc. Mathematics, Dr. Harisingh Gour Central University, Sagar (M.P) . Grades (Percentage): 60%
2009 – 2012	B.Sc. Honors Mathematics, Banaras Hindu University, Varanasi . CGPA: 6.10

Research Publications

- L.K Singh, A canonical operator space structure on Orlicz-Figa Talamanca Herz Algebras, In Preparation.
- L.K Singh, **Geometry of a Banach algebra** \mathcal{A} and the bidual of $L^1(G, \mathcal{A})$, Journal of mathematical analysis and applications, Volume 533, Issue 1, 128056. 2024.
- L.K Singh, Annihilators in the bidual of generalized group algebras, Complex analysis and operator theory. Vol. 18, 68, 2024
- V.P Gupta, L.K Singh, On strong Arens irregularity of the projective tensor product of Hilbert-Schmidt spaces, Houston J. Math., Vol 48-2, 337-351. 2022.
- L.K Singh, On Arens regularity of projective tensor producs of Schatten spaces, Rocky Mount. J. Math. Vol. 51, issue 4, 1433-1441. 2021.
- L.K Singh, A.K Verma, **Some functorial properties of Schatten classes**. Adv. Oper. Theory 5, 1406–1413 (2020).

Conferences and Invited Talks

- Invited talk- International workshop on Operator theory and its Applications- University of Kent, Canterbury (U.K) (12-16 August, 2024).
- National conference on Operator theory and function spaces- Shiv Nadar Institute of Eminence (Attended 27-29 March, 2024).
- Indian Women in Mathematics conference- IISER Bhopal. (Attended 13 July-15 July, 2023)
- Invited as a short-term visiting scholar at department of mathematics IIT-Kanpur. (21 Nov-05 Dec)
- International conference on recent trends in mathematics, Hansraj college . Presented a paper. (22-24 Dec 2021, Online)
- Conference on algebra and analysis, Ambedkar University. Presented a paper. (23, April 2021, Online).
- Advanced instructional school in operator theory, IIT-Kanpur. (12 dec-28 dec, 2019)
- National workshop in functional analysis and topology, LNMIIT Jaipur. (March 2018)
- Annual foundation school-III, Kerala school of mathematics, Kozhikode.(July 2018)
- Annual foundation school-I, IIT-delhi. (December 2017)
- Summer research program, IISER-Mohali. Worked under guidance of Prof. I.B.S Passi and learned tropical algebras. (May 2013)

Teaching

2024-2025 Instructor/Lecturer at MITS- Gwalior for B.Tech course

- Research Methodology (PhD Coursework)
- M3: Engineering Mathematics-3 (B.Tech semester-IV)
- Linear Algebra (B.Tech Semester I)
- M2: Engineering Mathematics-2 (B.Tech semester-III)

2023-2024 Teaching Assistant for BS courses at IISER-Bhopal.

- MTH 101: Linear Algebra (Summer)
- MTH 201: Probability and Statistics (Winter)

2019-2020 Teaching Assistant for M.Sc courses at Jawaharlal Nehru University.

- Complex Analysis (Summer)
- Functional analysis (Winter)

2018-2019 Teaching Assistant for B.Tech courses at Jawaharlal Nehru University, New Delhi.

- Enigneering Mathematics- 1 (Summer)
- Engineering Mathematics- 2 (Winter)

Skills

Coding Matlab, LTEX.

Skills (continued)

Misc.

Academic research, teaching, training, consultation, LTFX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

2024

SERB International Travel Support, granted by Science and engineerign research board (Govt. of India) for presenting paper in IWOTA-2024, University of Kent, Cantebrury (U.K)

2017

CSIR-JRF, Fellowship granted by CSIR for pursuing PhD in Mathematics.

Certification

2016

CSIR-NET for lecturership in Mathematical Sciences. Awarded by Council for Scientific and Industrial research (Government of India).

References

Dr. Ved Prakash Gupta

Assistant professor, School of Physical Sciences Jawaharlal Nehru University, New Delhi.

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Prof. Riddhi Shah

Professor, School of Physical Sciences Jawaharlal Nehru University, New Delhi.

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Prof. G. Ramesh

Professor, Department of Mathematics IIT-Hyderabad.