Lav Kumar Singh, Ph.D.

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R⁶ www.researchgate.net/profile/Lav-Kumar-Singh

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

Languages   Strong reading, writing and speaking competencies for English and Hindi.

Coding   Matlab, LaTeX.

Skills (continued)

Misc. ◼ Academic research, teaching, training, consultation, LaTeX 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
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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.
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