

Dr. Jitendra Kumar Maurya

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Government Degree College Lakhaihiya Kala Bahraich - 271865,
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EDUCATION

- **Ph. D.** - Department of Mathematics, Institute of Science, Banaras Hindu University,
- Discipline: Mathematics
- Specialization: Optimization
- Thesis Title: **Some Contributions to Multiobjective Mathematical Programming Problems with Equilibrium and Vanishing Constraints.**
- Ph.D. Supervisor: **Prof. S. K. Mishra, Department of Mathematics, BHU, Varanasi** (bhu.sk mishra@gmail.com)
- Research Area: **Nonlinear Programming, Nonsmooth Analysis, Semi-infinite optimization, Multiobjective Optimization, Mathematical programs with equilibrium constraints, Mathematical programs with vanishing constraints, Variational inequality.**
- Date of joining Ph. D.: 05/05/2015
- Date of Complete Ph. D.: 02/02/2021
 - **M.Sc.** in Mathematics, M. G. K. V. P. University, Varanasi, India (58.91%) in 2012.
 - **B.Sc.** Mathematics & Physics, V. B. S. P. University, Jaunpur, India (57.05%) in 2009.
 - **12th** U. P. Board, Allahabad with 57.00% in 2006.
 - **10th** U. P. Board, Allahabad with 60.17% in 2004.

EXAMINATION QUALIFIED

Year	Examination Name	Rank (Score)
2012	GATE	758
2014-June	CSIR-JRF	51 out of 211
2014-December	UGC-JRF	68 out of 189
2015	GATE	186
2015-June	CSIR-JRF	63 out of 314

Experience

Institutions Name	From	To	Designation	Role
Kashi Naresh Government PG College Gyanpur Bhadohi- 221304	25/06/2021	16/06/2025	Assistant Professor Mathematics	Taught Mathematics B.Sc. and M.Sc.

PUBLICATIONS

1. K. K. Lai, S. K. Mishra, Mohd. Hassan, Jaya Bisht, **J. K. Maurya.**:
Duality results for interval-valued semi-infinite optimization
problems with equilibrium constraints using convexificators.
Journal of Inequalities and Applications.
<https://doi.org/10.1186/s13660-022-02866-1>

2. Mohd Hassan, **J. K. Maurya**, S. K. Mishra. On M-stationary conditions and duality for multiobjective mathematical programs with vanishing constraints. *Bulletin of the Malaysian Mathematical Sciences Society*. 45, 1315-1341(2022)
<https://doi.org/10.1007/s40840-022-01252-w>.
3. K. K. Lai, **J. K. Maurya**, S. K. Mishra. Multiobjective approximate gradient projection method for constrained vector optimization: Sequential optimality conditions without constraint qualifications. *Journal of Computational and Applied Mathematics*
<https://doi.org/10.1016/j.cam.2022.114122> Vol 410, 114-122 (2022).
4. K. K. Lai, Mohd Hassan, S. K. Singh, **J. K. Maurya**, S. K. Mishra. Semidefinite multiobjective mathematical programming problems with vanishing constraints using convexifiers. *Fractal and Fractional* **2022**, 6(1), 3;
<https://doi.org/10.3390/fractalfract6010003>.
5. K. K. Lai, Mohd Hassan, **J. K. Maurya**, S. K. Singh, S. K. Mishra. Multiobjective convex optimization in real Banach space. *Symmetry* **2021**, 13(11), 2148;
<https://doi.org/10.3390/sym13112148>.
6. V. Laha, Rahul Kumar, J. K. Maurya.: Saddle Point Criteria for Semidefinite Semilinear Convex Multiobjective Optimization Problems. *Yugoslav Journal of Operations Research*.
<http://dx.doi.org/10.2298/YJOR201223001L>
7. S. K. Mishra, Rahul Kumar, Vivek Laha, Jitendra Kumar Maurya. Optimality and duality for semidefinite multiobjective programming problems using convexifiers.
<https://doi.org/10.23952/jano.4.2022.1.08>.
8. **J. K. Maurya**, S. K. Mishra. Strong complementary approximate Karush-Kuhn-Tucker conditions for multiobjective optimization problems. *Yugoslav Journal of Operations Research*.
<http://dx.doi.org/10.2298/YJOR210315024M> (2021).
9. **J. K. Maurya**, A. Shahi, S. K. Mishra. Optimality and Duality of Pseudolinear Multiobjective Mathematical Programs with Vanishing Constraints. In: Singh V.K., Sergeyev Y.D., Fischer A. (eds) Recent Trends in Mathematical Modeling and High Performance Computing. Trends in Mathematics. Birkhäuser, Cham. https://doi.org/10.1007/978-3-030-68281-1_16 (2021).
10. Kunwar V. K. Singh, **J. K. Maurya** and S. K. Mishra. Duality in Multiobjective Mathematical Programs with Equilibrium Constraints. *International Journal of Applied and Computational*

- Mathematics* **7**, 62 (2021). <https://doi.org/10.1007/s40819-021-01002-9>.
11. **J. K. Maurya** and S. K. Mishra.: Multiobjective mathematical programs with equilibrium constraints: pseudolinear case. <http://www.journalofoms.com/index.php/Website/search>
 12. S. K. Singh, J. K. **Maurya**, S. K. Mishra. Sequential Optimality Conditions and Variational Inequalities. *Theory of Approximation and Applications*, 14(1), 1-25 (2020).
https://journals.iau.ir/article_666925.html
 13. Kunwar V. K. Singh, **J. K. Maurya**, Y. Pandey and S. K. Mishra. On Optimality and duality for multiobjective mathematical programming problem with equilibrium constraints using generalized convexity. *Journal of Scientific Research, Banaras Hindu University, Varanasi*, 63, 281-297, 2019
https://www.bhu.ac.in/research_pub/jsr/Volumes/JSR%20Vol%2063%202019/25.%20K.%20V.%20K.%20Singh%20%20final%2028.03.2019.pdf
 14. Kunwar V. K. Singh, **J. K. Maurya**, S. K. Mishra. Lagrange duality and saddle point optimality conditions for semi-infinite programming problems with equilibrium, *Yugoslav Journal of Operations Research*, 29 (4), 433–448, 2019
(DOI: <https://doi.org/10.2298/YJOR181215014S>)

WORKSHOPS AND CONFERENCES ATTENDED

1. Annual Foundation School-I in JECRC University, Jaipur (30 Nov- 26 Dec, 2015).
2. Participated in “National Conference on Analysis and Applications (NCOAA-2016, BHU)”, Varanasi, India (5 Feb – 7 Feb, 2017).
3. Participated and Presented a paper in “International Conference on The Indian Mathematical Consortium in Co-operation with American Mathematical Society” entitled with “On strong KKT sufficient Optimality Conditions for Multiobjective Semi-infinite Pseudolinear Optimization” in BHU, Varanasi, India (14 Dec- 17 Dec, 2016).
4. Participated and Presented a paper in “2017 Symposium on Mathematical Programming and Game Theory” entitled with “Approximate Karush-Kuhn Tucker Condition in Multiobjective smooth and Nonsmooth Pseudolinear Optimization” in Indian Statistical Institute Delhi Centre, New Delhi, India (9 Jan – 11 Jan, 2017).
5. Attend the “International Workshop on Convex Analysis and Optimization (IWCAO-2017)” in AMU, Aligarh, India (14 Nov - 19 Nov, 2017).
6. Participated and Presented a paper in “International Conference on Analysis and Its Applications (ICAA-2017)” entitled with “Approximate Duality in Multiobjective Optimization” in Aligarh Muslim University, Aligarh, India (20Nov– 22 Nov, 2017).
7. Attended “Hands on Training Programme on C & MATLAB” at DST-CIMS, B.H.U., Varanasi (10 Feb - 17 Feb, 2018).

PERSONAL INFORMATION

Father's Name: Shri. Shriram Maurya

Mother's Name: Smt. Shakuntala Devi

Date of Birth: 02/01/1989

Address: Village- Dadara Pahadi, Post- Baghaura, District- Mirzapur 231001, Uttar Pradesh, India.

Nationality: Indian

Language Known: Hindi, English