

Dr. Praveen. J



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Career Objective

- To utilize my knowledge and research skills to make meaningful academic contributions while supporting institutional development.
- Passionate about teaching, with a strong commitment to enhancing student learning, encouraging critical thinking, and adopting innovative teaching-learning methodologies.

Personal Details

Address	DR. No 369, 3rd Cross, Zinkline, Bhadravathi
Date of Birth	January 8, 1998
Gender	Male
Marital Status	Unmarried
Languages Known	Kannada, English, Hindi
Nationality	Indian

Qualification

Year	Qualification / Institution	University/Board	Result/Remarks
2022 – 2025	Ph.D. (Mathematics) <i>Thesis: A Study of Cosmology Based on Finsler Space-time</i> Supervisor: Dr. S. K. Narsimhamurthy	Kuvempu University	Awarded
2019 – 2021	M.Sc. Mathematics Kuvempu University, Main Campus	Kuvempu University	93.82% (2nd Rank)
2016 – 2019	B.Sc. (PCM) DVS College of Arts and Science, Shivamogga	Kuvempu University	93.7% (6th Rank)
2014 – 2016	PUC (PCMB) Aurobindo Independent PU College, Jnanadeepa Campus, Shivamogga	Karnataka Pre University Board	95.66%
2014	SSLC St. Charles Kannada High School, Bhadravathi	Karnataka Secondary Education Examination Board	93.44% (2nd Rank in Taluk (Kannada Medium))

Competitive Examinations Qualified

Exam	Year	Rank
JOINT CSIR-UGC JRF/NET	2023	186
KSET	2024	21
GATE	2021	1853
JAM	2019	1505

Experience

January 2022 – June 2022	Guest Lecturer , Department of PG Studies and Research in Mathematics, Kuvempu University.
June 2022 – June 2025	Assigned to conduct 4 classes per week as a UGC-CSIR JRF fellowship holder for M.Sc. students.

Area of Interest

Differential Geometry, Finsler Geometry, General Theory of Relativity, Cosmology, Observational Data sets

Research Profile

Published Papers	22
Communicated Papers	20
Citations	113
h-index	7
iio-index	5

Publications

1. Narasimhamurthy, S. K., & **Praveen, J.** (2024). Cosmological constant roll of inflation within Finsler–Barthel–Kropina geometry. *New Astronomy*, 108, 102187. **Q2, IF 2.1.**
2. Narasimhamurthy, S. K., & **Praveen, J.** (2024). Constant roll inflation and Finsler geometry with scale factor parametrization. *EPJ C*, 84(1), 60. **Q1, IF 4.8.**
3. **Praveen, J.**, & Narasimhamurthy, S. K. (2024). Matter bounce cosmology within Finsler–Randers geometry. *J. High Energy Astrophysics*, 44, 300–314. **Q1, IF 10.5.**
4. **Praveen, J.**, Narasimhamurthy, S. K., & Yashwanth, B. R. (2024). Compact stellar structures in Finsler–Randers geometry with Barthel connection. *EPJ C*, 84(6), 597. **Q1, IF 4.8.**
5. **Praveen, J.**, & Narasimhamurthy, S. K. (2024). Wormholes under dark energy in Finsler–Barthel–Kropina frameworks. *EPJ Plus*, 139(8), 1–21. **Q2, IF 2.8.**
6. **Praveen, J.**, & Narasimhamurthy, S. K. (2024). Novel wormhole metrics in Finsler–Randers geometry. *Physica Scripta*, 99(10), 105251. **Q2, IF 2.2.**
7. Yashwanth, B. R., Narasimhamurthy, S. K., **Praveen, J.**, & Malligawad, M. (2024). Density models and wormhole formation in Finsler–Barthel–Randers geometry. *EPJ C*, 84(12), 1–16. **Q1, IF 4.8.**
8. **Praveen, J.**, & Narasimhamurthy, S. K. (2025). Randers metric and inflationary dynamics. *Journal of Subatomic Particles and Cosmology*, 100030.

9. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Late-time cosmology in Finsler–Randers geometry with Barthel connection. *Nuclear Physics B*, 1015, 116899. **Q1, IF 2.8.**
10. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Finsler–Kropina model with weak-field anisotropy and data. *Nuclear Physics B*, 116992. **Q1, IF 2.8.**
11. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Dark energy in Finslerian black-hole dynamics. *Astronomy and Computing*, 100938. **Q2, IF 1.8.**
12. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Anisotropic metrics and thermodynamics in black-hole theory. *New Astronomy*, 119, 102404. **Q2, IF 2.1.**
13. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Non-vanishing vector fields and wormhole stability in Finsler–Randers geometry. *Int. J. Geom. Methods Mod. Phys.*, 2550140. **Q2, IF 2.2.**
14. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Cosmic dynamics in scalar–tensor theories on Finsler-like tangent bundles with constraints. *Physics Letters B*, 139817. **Q1, IF 4.5.**
15. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Cosmological Anisotropies with Finsler–Randers Geometry and Large-Scale Observation. *Astronomy and Computing*, 101001. **Q2, Elsevier IF: 1.8.**
16. **Praveen, J., Narasimhamurthy, S. K., & Rajesh Kumar (2025).** Observational constraints and cosmological evolution in Finsler Barthel–Kropina space-time. *The European Physical Journal C*. **Q1, Springer, IF: 4.8.**
17. **Praveen, J., Narasimhamurthy, S. K., & Rajesh Kumar (2025)** Construction and Analysis of Kiselev Wormholes in Power-Law $f(R)$ Gravity Framework. *Nuclear Physics B*, 117209. **Q1, IF 2.8.**
18. **Praveen, J., & Narasimhamurthy, S. K.(2026).** Observational constraints on anisotropic cosmology and dark energy in Finsler–Kropina models. *Astrophysics and Space Science*, 371(1). **Q3, Springer IF: 1.5.**
19. **Praveen, J., & Narasimhamurthy, S. K.(2026)** Cosmological evolution in Finsler Kropina–Barthel spacetime. *General Relativity and Gravitation*, 58(2), 12 . **Q1, Springer IF: 2.8.**
20. **Praveen, J., & Narasimhamurthy, S. K.(2026).** The Influence of Finsler–Randers Geometry on Black Hole Horizon and Thermodynamic Properties Employing Barthel Connection. *International Journal of Theoretical Physics*, 65(3), 83. **Q3, Springer IF: 1.7.**
21. **Praveen, J., & Narasimhamurthy, S. K. (2025).** Model-independent reconstruction of late-time cosmic acceleration in Finsler–Randers cosmology. *Physics Letters B*, 140369. **Q1, IF 4.5.**
22. **Praveen, J., Narasimhamurthy, S. K, & Abdel Nasser Tawfik . (2025).** Investigating the accelerating universe with parameterized anisotropy in Finsler–Randers geometry. *High Energy Density Physics*, 101283. **Q3, IF 0.9.**

Computer Skills

C Programming, Latex, Mathematica, Python, Maple, Matlab, MS office, Origin

Academic Contributions

- Handled C-Programming and Numerical Lab using C-Programming Laboratory for M.Sc. students.
- Co-guided 25 M.Sc. students in their final semester projects, providing research direction, technical support, and academic mentoring.
- Actively involved in the preparation and submission of proposals for centrally funded research projects.
- Served as a committee member in organizing National and International conferences, contributing to academic coordination and event management.

Awards and Achievements

- 2024 **Young Geometer Award** — Late Prof. Ramnivas Memorial Award, International Conference on Gravitation and Cosmology (ICGC 2024), organized by GLA University in collaboration with the Tensor Society, Mathura.
- 2025 **Best Paper Presentation Award** — International Conference on Advanced Mathematical Applications, organized by D.R.M. Science College, Davanagere.

Conferences Attended

- 2025 **International Conference on Advanced Mathematical Sciences and Their Technological Applications (ICAMSTA-2025)** — presented “*Cosmic dynamics and dark energy evolution in scalar-tensor theories on Finsler-like tangent bundles with observational constraints*”; Osmania University, Hyderabad, 12-14 Dec 2025.
- 2025 **International Conference on Gravitation, Astrophysics and Space Sciences (ICGCAS-2025)** — presented “*Cosmic dynamics and dark energy evolution in scalar-tensor theories on Finsler-like tangent bundles with observational constraints*”; Pacif Institute of Cosmology and Selfology (PICS), Sagara, Sambalpur, Odisha, 17-19 Oct 2025.
- 2024 **International Conference on Advanced Mathematical Applications (ICAMA-2024)** — presented “*Matter Bouncing Cosmology within Finsler–Randers Geometry: A Comprehensive Study of Anisotropic Influences*”; D.R.M. Science College, Davanagere, 22 Nov 2024.
- 2024 **International Conference on Mathematical Analysis and its Applications (ICMAA-2024)** — presented “*Analysing Wormhole Geometry under Dark Energy Influences in Finsler–Barthel–Kropina Frameworks*”; Karnatak University, Dharwad, 2–4 Aug 2024.
- 2024 **International Conference on Gravitation, Astrophysics and Cosmology (ICGAC-2024)** — presented “*Exploring Compact Stellar Structures in Finsler–Randers Geometry with Barthel Connection*”; CCASS, GLA University, Mathura, 14–16 Jun 2024.
- 2024 **International Conference on Advances in Applied Mathematics (ICAAM-2024)** — presented “*Constant Roll Inflation and Finsler Geometry: Exploring Anisotropic Universe with Scalar Factor Parametrization*”; Tumkur University, Tumakuru, 10–11 Jan 2024.
- 2023 **International Conference on Differential Geometry and Relativity** — attended; SSJ University, Almora; BTKIT, Dwarahat; Tensor Society, India, 18–20 May 2023.
- 2022 **CONIAPS XXVIII (ICPSSD-2022)** — attended; Vijayanagara Sri Krishnadevaraya University, Ballari, 21–23 Dec 2022.

Workshops Attended

- 2024 **International Workshop on Numerical Methods in ODEs/PDEs & Computational Intelligence** — attended; KS Saket PG College, Ayodhya, 18–22 Mar 2024.
- 2023 **Mastering Mathematical Concepts with Python Programming** — attended; Indian Mathematics Professor Association & Infinity Research and Development Institute, Coimbatore, 17–18 Sep 2023.
- 2024 **Unlock Data Analytics with Mathematics and Python (Online Workshop)** — attended; Indian Mathematics Professors Association & Infinity Research & Development Institute, 10–15 Jun 2024.

Invited Talks

- 2025 **Prof. R Balakrishnan Endowment Lecture and A Three days National Level Mathematics Faculty Development Program on MAPLE with Computational Mathematics** —organized by Department of Mathematics, Karnatak University, Dharwad; 29–31 OCT 2025.

Declaration: I hereby declare that the above information and details provided by me are correct to the best of my knowledge.

Place: Shivamogga

Date: May 17, 2026



(Praveen J)