JASPREET KAUR

CONTACT

Permanent- Talwandi,
District- Barnala,
Punjab, India, 148102

+91 9646764256

Gjaspreet303@gmail.com
Jaspreet30394@gmail.com

Google Scholar

R^G ResearchGate

RESEARCH INTEREST

o Expertise in Finsler Geometry. Particularly, specializing in Flag curvature, Ricci Curvature, S-curvature, Geodesic vectors, Homogeneous nilmanifolds, and Minimal surfaces and Conformal transformation in Finsler geometry**.**

o Strong knowledge of the geometry of smooth manifolds, Riemannian manifolds and calculus over manifolds.

o Current exploring the Extrinsic geometric flows, foliation and Ricci soliton in metric structures.

EDUCATION

S. No.	Qualification	University/Board	%age	Year of Passing
1.	Ph. D. in Mathematics	Central University of Punjab	_	Thesis Submitted
2.	M. Sc. (Mathematics)	Punjabi University Patiala	85%	2016
3.	B. A.	Punjabi University Patiala	71%	2014
4.	+2	P.S.E.B.	82%	2011
5.	Matriculation	P.S.E.B.	72%	2009

AWARDS AND HONORS

o Senior Research Fellowship by Council of Scientific & Industrial Research-UGC (Jan. 2022-present)

o Junior Research Fellowship by Council of Scientific & Industrial Research-UGC (Jan. 2020-Dec. 2021)

o CSIR-UGC NET (2019)

o GATE (2018) qualified

SOFTWARE SKILLS

o Latex
o MS Office
o Mathematica
o Maple

PROFESSIONAL EXPERIENCE

S.No.	Name of Institute	Period of job	Position
1.	Baba farid group of Institute, Bathinda	Jan. 2019-Jan. 2020	Assistant Professor
2.	Aryabhatta group of Institute, Barnala	Aug. 2016- Jan. 2019	Assistant Professor

PUBLICATION/ACCEPTED ARTICLES

- **Jaspreet Kaur**, Gauree Shanker, Seema Jangir, On the flag curvature of a homogeneous Finsler space with generalized m-Kropina metric, Balkan Journal of Geometry and Its Applications, 27 (2), 2022, 66-76.
- **Jaspreet Kaur**, Gauree Shanker, Flag curvature of left-invariant (α, β)-metrics on tangent Lie groups, Balkan Society of Geometers Proceedings, 29, 2022, 34-47.
- Gauree Shanker, **Jaspreet Kaur***, On the Ricci curvature of a homogeneous Finsler space with generalized m-Kropina metric, Journal of Mathematics Extension, 17 (9), 2023, 1-24.
- Seema Jangir, Gauree Shanker, **Jaspreet Kaur,** On homogeneous generalized-Kropina spaces with curvature aspects, Journal of Rajasthan Academy of Physical Sciences, 21 (3-4), 2023, 243-254.
- Seema Jangir, Gauree Shanker, **Jaspreet Kaur,** Piscoran Laurian, On the existence and examples of homogeneous geodesic, Facta Universitatis, Series: Mathematics and Informatics, 39 (2), 2024, 289-302.
- Gauree Shanker, **Jaspreet Kaur***, Seema Jangir, Geodesic vectors on 5-dimensional homogeneous nilmanifolds, Matematicki Vesnik (Accepted).

SUBMITTED MANUSCRIPTS

- **Jaspreet Kaur**, Gauree Shanker**,** Seema Jangir, On the class of homogeneous quartic Finsler metrics admitting (α, β)-types.
- **Jaspreet Kaur**, Gauree Shanker, Minimal surfaces in three-dimensional generalized Kropina Finsler space.
- **Jaspreet Kaur**, Gauree Shanker, Left invariant Randers metric of Douglas type on 4-dimensional Lie groups.
- Seema Jangir, **Jaspreet Kaur,** Gauree Shanker, On some geometrical properties of six-dimensional nilpotent Lie group $\mathbf{N}_{6,11}$.

PAPER PRESENTED IN CONFERENCES

- I have presented paper "Flag curvature of left invariant (α, β)-metrics on tangent Lie groups" **International Conference of Differential Geometry and Dynamical Systems (DGDS 2021)**, organized by University Polithehnica of Bucharest and the Balkan Society of Geometers (Romania), during 27-29, August 2021.
- I have presented paper "On the class of homogeneous quartic Finsler metrics admitting (α, β)-types" in **International Conference on Recent Advances in Differential Geometry and Topology**, organized by Central University of Punjab, Bathinda, during 26-28, October 2021.

NAME AND ADDRESS OF REFERENCE

Dr. Gauree Shanker
Professor
Department of Mathematics and Statistics
Central University of Punjab, India, 151401

✉ gauree.shanker@cup.ac.in
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Grshnkr2007@gmail.com

WORKSHOPS/SEMINARS

- **Geometry of continued fractions: Ramanujan and his successors**, organized by Srinivasa Ramanujan Department of Mathematics, Centre for Vedic Mathematical Studies and Central University of Himachal Pradesh, India during September 14-15, 2020.
- **Research Methodology and Data Analysis Using SPSS Software**, organized by the Department of Statistics, Mizan-Tepi University, ETHIOPIA in collaboration with MathTech Thinking Foundation (MTTF), India from 24-30 June 2021.
- **NASI-TMC Summer School on Differential Geometry** organized by the Department of Mathematics and Statistics, Central University of Punjab, Bathinda during July 05-24, 2021.
- **Advanced session on patenting strategies and patent search exercise for inventions in Computational Sciences**, organized by Central University of Punjab, 02, December 2021.
- **Applications of Differential Geometry,** organized by the Department of Mathematics and Humanities, M. M. (Deemed to be University), Mullana-Ambala, India on February 10, 2022.
- **National Workshop on Ancient Indian Mathematics,** organized by the Department of Mathematics and Statistics, Central University of Punjab, March 14-16, 2022**.**
- **FDP on Complex Geometry and Cryptosystems**, organized by Mathematical Science Institute, Belagavi from April 20-24, 2024.