

MANISHA

Singular optics and EQUIP lab , Department of Physics, IIT Delhi
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Broad area of research

Optics and light fields

Research interest

- Singular optics
- Coherence optics
- Singularities (Polarization singularity) in partially coherent fields

Education

- **Ph.D. Physics (2018-present)**

Indian Institute of Technology Delhi (IITD)

Under joint supervision of Prof. P Senthilkumaran and Prof. Bhaskar Kanseri

- **M.Sc. Physics (2014-2016)**

Soban Singh Jeena (SSJ) Campus, Almora, Uttarakhand

Percentile: 75%

- **B.Sc. (Physics, Chemistry, Mathematics) (2012-2014)**

Laxman Singh Mahar (LSM) P G college, Pithoragarh, Uttarakhand

Percentile: 76%

- **Intermediate (2011, Uttarakhand board)**

Saraswati Balika Vidhya Mandir Pithoragarh, Uttarakhand

Percentile: 79%

- **High school (2009, Uttarakhand board)**

Saraswati Balika Vidhya Mandir Pithoragarh, Uttarakhand

Percentile: 77%

National level examinations

- Qualified **Graduate Aptitude Test in engineering (GATE)-2018,2019**
- Qualified **National Eligibility Test (NET)** in the joint CSIR-UGC test held in December-2018 (AIR-95)
- Qualified **Uttarakhand State Eligibility test (U-SET) – 2018**

Scholarships

- **Scholarship for higher education (SHE)** for Bachelor of science (2011-2014) from **DST-INSPIRE**
- **Scholarship for higher education (SHE)** for Master of science(Physics) (2014-2016) from **DST-INSPIRE**
- **Junior Research Fellowship (JRF)** (July 2018-present) from **DST-INSPIRE**

Achievements

- **First position in university merit list** of M.Sc. Physics, Kumaon university, Uttarakhand
- Received **Vice-Chancellor's Gold medal** in 2016
- Received **Om Bhagwati Prem Singh Negi (Himanchal Pradesh) Gold medal** in 2016

Publications

S. Joshi, S. N. Khan, **Manisha**, P. Senthilkumaran, and B. Kanseri, "Coherence- induced polarization effects in vector vortex beams" Opt. Lett. 45, 4815 (2020)

Conferences

- Presented a poster titled "Partially coherent polarization singular vector field beams" in the workshop "Optics and Photonics: Theory and Computational Techniques (OPTCT2020)", 26th to 27th December, 2020 held at Indian Institute of Technology Roorkee, Uttarakhand.
- Attended Photonics-2018 held at Indian Institute of Technology Delhi on 12th to 15th of December.

Computer languages

- Matlab
- Mathematica
- LATEX

