

Dr. Shiva Kumar Singh

Assistant Professor (Condensed Matter Physics: Superconductivity, Thermoelectrics)

Dept of Physics, Dr Hari Singh Gaur Vishwavidyalaya (A central University), Sagar M.P.

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Career Summary:

- More than 9 years of experience in materials (Cuprates, Oxy-sulfides, mangannites, thermoelectrics, High entropy alloys, Topological insulators) synthesis, characterization and analysis.
- Experience in handling of XRD Rigaku, Quantum Design PPMS and MPMS electrical, magnetic and thermal characterization:
- XRD Rietveld refinement, XPS profile fitting.
- Interdisciplinary international team coordination and project management

Research Interest

- High entropy alloys, Topological insulators
- Superconducting and Magnetic materials
- Low dimensional thermoelectric materials

Professional Experience

- 1. Assistant Professor-Physics (Mat. Sc., Quantum Mech.)** Feb 2025-Till date
Dr. Hari Singh Gour Vishwavidyalaya Sagar (a Central University)
- 2. Guest Faculty-Integrated Basic Sciences** Dec 2022- Feb 2025
Babasaheb Bhimrao Ambedkar University, Lucknow (a Central University)
- 3. FAPESP Postdoctoral Researcher** Sep 2019-Aug 2022
Grupo de Matérias Quânticas, CCNH, Universidade do Federal ABC – Santo Andre, Brazil
- 4. Guest Faculty-Integrated Basic Sciences** Sep 2018- July 2019
Babasaheb Bhimrao Ambedkar University, Lucknow (a Central University)
- 5. Postdoctoral Researcher** Oct 2017-March 2018
College of Engineering, Hitachi, Ibaraki University, Japan
- 6. Postdoctoral Researcher** May 2013- Sep 2017
National Institute for Material Science, Sengen, Tsukuba-shi, Japan

Education

PhD (Superconductivity: Cuprates)

Feb' 2008-May' 2013

Condensed Matter Physics, National Physical Laboratory & Jamia Millia Islamia, New Delhi, India

M. Sc (Physics)

July' 2001-June' 2003

Dept. of Physics, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, Uttar Pradesh, India

Achievements and Awards

- **Received FAPESP Postdoctoral Fellowship**, Sao Paulo, Brazil
- **Received NIMS Postdoctoral Fellowship**, NIMS, Tsukuba, Japan
- **Qualified CSIR (NET-JRF) June-2007**
- **Qualified GATE-2007 and 2008**
- **Qualified SET-2004 and 2008, DRDO, New Delhi.**

Language(s)

- English (Full Professional Proficiency)
- Hindi (Full Professional Proficiency)
- Japanese (Basic Understanding)
- Portuguese (Basic Understanding)