

# MEGHA VAGADIA

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## Education

- 2009-2014      **Doctor of Philosophy (PhD) in Materials Science**  
Saurashtra University ..... Rajkot, INDIA  
Thesis Title: *Studies on some new functional oxides*  
Advisor: Prof. D.G. Kuberkar
- 2008-2009      **Master of Philosophy (M. Phil.) in Physics**  
Saurashtra University ..... Rajkot, INDIA  
Thesis Title: *Studies on Diluted Magnetic Oxides*  
Advisor: Prof. D.G. Kuberkar
- 2006-2008      **Master of Science (M. Sc.) in Physics**  
Saurashtra University ..... Rajkot, INDIA  
Passed with distinction

## Employment

- Aug. 2014 - Aug. 2017    **Post-doctoral Fellow**  
Tata Institute of Fundamental Research (TIFR) ..... Mumbai, INDIA.
- April. 2018 – April 2023    **DST INSPIRE Faculty**  
Indian Institute of Science Education and Research Bhopal (IISERB)..... Bhopal, INDIA.

## Awards and Recognitions

- **DST INSPIRE Faculty Award** Apr. 2018
- **National Post-doctoral Fellowship (NPDF)** Aug. 2017 (Not Availed)
- **Junior Research Fellowship** in UGC Major Research Project on Development and Characterization of Multiferroic Thin Films for Device Applications, Mar. 2011 to Mar. 2012.
- **Senior Research Fellowship** received from CSIR, New Delhi, Apr. 2012 to Mar. 2014.

## Professional Activities

### Conferences/Workshops Organized:

- Organizer (with Prof. D.G. Kuberkar) for the *National Workshop on Xray Diffraction Techniques and Applications*, March 17-19, 2010, Saurashtra University, Rajkot.
- Organizer (with Prof. D.G. Kuberkar) for the *National Workshop on Functional Oxides, Nanomaterials and Devices 2012*, March 01-03, 2012, Saurashtra University, Rajkot.
- Local Organizing Committee for the *NARIPHY -2022, National Assembly of Researcher in Physics Aug 22-26, 2022*, Department of Physics, IISER Bhopal.

### Journals Refereed:

- Journal of Physics D: Applied Physics
- Journal of Physics: Condensed Matter.
- Applied Physics Letter.
- Indian Journal of Physics.
- Materials Physics and Chemistry of Solids.

– AIP Proceedings for DAE-SSPS Symposiums for 2014-17, 2022.

### Beamtime Experience:

- January, 2016 Neutron Powder Diffraction measurement Beam Time Project on Evolution of magnetic structure in  $R\text{Cr}_{1-x}\text{Mn}_x\text{O}_3$  : A Neutron Diffraction Study at Australian Nuclear Science and Technology Organization (ANSTO)/ Bragg Institute, Sydney, Australia. (Role : **Principle Investigator**)
- January, 2012 X-ray Photoemission Spectroscopy and Resonant Photoemission Spectroscopy measurements to study electronic structure modifications in  $\text{Zn}_{1-x}\text{Co}_x\text{O}$  using angle-integrated photoemission spectroscopy (AIPES) beamline on the INDUS-1 synchrotron radiation source.
- June, 2012 High energy Swift heavy ion irradiation using Material Science beamline at IUAC, New Delhi.

### Invited Talks / Oral presentations / Discussions Delivered:

- Oral Presentation at International conference on Materials and Advanced Technologies (ICMAT 2023) held at Suntec Singapore, June. 2023.
- Oral Presentation at Physics of Strongly Correlated Electron Systems (PSCES) 2023 held at IISER Pune, March 2023
- Invited talk in the *National Assembly of Researcher in Physics (NARIPHY -2022)* held at IISER Bhopal, Aug. 2022.
- Invited Talk on Giant anisotropic magnetoresistance with dual four-fold symmetry in  $\text{CaMnO}_3/\text{CaIrO}_3$  heterostructures , 22th Dec., 2021, 32 Annual General Meeting of MRSI, IIT Madars.
- Oral Presentation at DAE Solid State Physics Symposium held at BARC Mumbai, Dec. 2017.
- Invited Talk on Multiferroics Thin films for Non-volatile Memory Applications, 24th Jan., 2014, National Seminar on Nanostructure and Thin Film Coating 2014 (NSNTC - 2014), V.V.P. Engineering College, Rajkot.
- Experimental Lab Sessions for Refresher Course for Science College Teachers on Nano and Applied Sciences, Dec. 17, 2013, Academic Staff College, Saurashtra University, Rajkot.
- Experimental Lab Sessions for Refresher Course for Science College Teachers on Nano and Applied Sciences, Dec. 10, 2013, Academic Staff College, Saurashtra University, Rajkot.

### References

**Prof. D.S. Rana**, - (Host of DST INSPIRE Faculty Award)  
Department of Physics,  
Indian Institute of Science Education and Research Bhopal,  
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**Prof. D.G. Kuberkar**, (Ph.D. Supervisor)  
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**Prof. A.K. Nigam**, (Post-doc supervisor)  
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**Dr. S. Rayaprol**, (Collaborator)

Scientist E,

UGC-DAE Consortium for Scientific Research,

Bhabha Atomic research Centre Campus-Trombay, Mumbai-400 085,

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