

## FACULTY PROFILE



**Name:** Dr. MAHENDRA SHINDE

**Designation :** Assistant Professor

**Teaching Areas:** Statistical physics, Computational physics, Fundamental Physics

**Research Interests:** Computational statistical physics of complex matter

### Education:

- PhD, Non-equilibrium statistical physics, IIT Bombay, Mumbai, 2010
- M.Sc., Solid state physics, Shivaji University, Kolhapur, Maharashtra, 1999
- B.Sc., Physics, Rajaram College, Shivaji University, Kolhapur, Maharashtra, 1997

### Professional Experience (Total: 6 yr & 8 month)

1. July 2016 – Present: Assistant Professor, Faculty of Science and Technology, ICFAI-IFHE, Hyderabad, Telangana, India.
2. Aug 2015 – Dec 2015: Temporary faculty (Physics) , IIIT-Dharwad, Hubli, Karnataka, India.
3. Jan 2015 – July 2015: Temporary faculty (Physics), NIT Karnataka, Surathkal, Karnataka, India.
4. Oct 2013 – Dec 2014: Research Associate, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Karnataka.
5. Jun 2012 – Jun 2013: Post-doctoral Fellow, Institute for Multiscale Simulation, FAU University, Germany
6. Jan 2011 - Jun 2012: International Young Scientist Fellow, Institute of Physics, Chinese Academy of Sciences, Beijing, China
7. Oct 2009 – Oct 2010: Post-doctoral Research Fellow, Hong Kong Baptist University, Hong Kong

### Research / Selected Publications:

- 1) Y. Li, R. Liu, M. Shinde, and M. Hou, "Flux measurement in compartmentalized mono-disperse and bi-disperse granular gases", *Granular Matter*, vol. 14, no. 2, pp. 137-143, March 2012
- 2) M. Shinde, D. Das, and R. Rajesh, "Coarse grained dynamics of the freely cooling granular gas in one dimension", *Phys. Rev. E*, vol. 84, pp. 031310(7), September 2011
- 3) M. Shinde, D. Das, and R. Rajesh, "Equivalence of the freely cooling granular gas to the sticky gas", *Phys. Rev. E*, vol. 79, pp. 021303(10), February 2009
- 4) M. Shinde, D. Das, and R. Rajesh, "Violation of Porod law in a freely cooling granular gas in one dimension", *Phys. Rev. Lett.*, vol. 99, pp. 234505(4), December 2007
- 5) Venkateswara Rao A., Sakhare H. M., Tamhankar A. K., Shinde M. L., Gadave D. B., and WaghP. B., "Influence of N, N-dimethylformamide additive on the physical properties of citric acid catalyzed TEOS silica aerogels", *Mater. Chem. Phys.*, vol. 60, pp. 268-273, April 1999