

## Mandar M. Deshmukh

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### Current position:

January 2006 -

Professor (2017- )  
Associate Professor (2011-2016)  
Reader(2007-2011)  
Fellow (2006-2007)  
Department of Condensed Matter Physics  
and Materials Science (DCMP and MS),  
Tata Institute of Fundamental Research  
(TIFR), Mumbai, India 400005

### Education:

August 1996-July 2002

Cornell University, Ithaca NY  
Ph.D., Physics, August 2002  
*"Probing Magnetism at the Nanometer Scale Using Tunneling Spectroscopy"* Advisor: Prof. D.C. Ralph

July 1992- April 1996

Indian Institute of Technology, Bombay, India.  
B.Tech Engineering Physics

### Research:

Jan 2006-

Principal investigator of an independent research group  
Emphasis on nanometer scale physics and nanoelectronics

[Publications on Google scholar](#)

October 2002- Dec2005

Postdoctoral work, Harvard University  
Cambridge MA.  
*Molecular electronics, Mesoscopic superconductivity*

June 1996-July 2002

Physics Department, Cornell University, Ithaca NY.  
*spin polarized tunneling via discrete quantum states, tunneling spectroscopy of individual metal nanoparticle.*

### Teaching:

TIFR, Mumbai  
Basic electronics and solid state physics

IIT Bombay  
Nanoelectronics

**Honors/Awards:**

Shanti Swarup Bhatnagar Award 2015 (in Physics)  
TWAS Affiliate (2014)  
Swarnajayanthi Fellowship 2012  
IBM Faculty Award 2012  
B.M. Birla Physics Prize 2011

**Community service:**

Reviewer for Physical Review Letters, Physical Review B, Applied Physics Letters, Nano Letters, Nature Nanotechnology, New Journal of Physics, Japanese Journal of Applied Physics, and Journal of Vacuum Science and Technology B