

Name: Archana Dubey

Job Title: Senior Lecturer

Professional Address:  
Department of Physics, UCF  
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### Professional Preparation

Undergraduate Institution	Sir P.P Institute of Science, Bhavnagar University	Physics	B.Sc. 1991
Graduate Institution	Bhavnagar University	Physics	M.Sc. 1993 Ph.D. 1998

### Appointments

Senior Lecturer, Fall 2020, Physics Department, UCF  
Associate Lecturer, Fall 2014, Physics Department, UCF  
Lecturer, Fall 2006, Physics Department, UCF  
Visiting Assistant Professor, Fall 2002, Physics Department, UCF  
Adjunct Faculty Fall 2001, Physics Department, UCF

### Summer Appointments:

5/27-8/1, 2014      Visiting Faculty  
Materials Science Division, Argonne National Laboratory, IL  
5/28-8/2, 2013      Visiting Faculty  
Materials Science Division, Argonne National Laboratory, IL  
6/11-8/15, 2012      Visiting Faculty  
Materials Science Division, Argonne National Laboratory, IL

### Publications

1. A. Dubey and P. Barniol, Enhancing Students' Understanding of Vectors Through Personalized Adaptive Learning, provisionally accepted, European Journal of Physics, May 2023.
2. A. Dubey and O. Heinonen, First-Principles Electronic Structure Study of Rhizoferrin and its Fe(III) Complexes, BioMetals. 26 (2013) 1003–1012.
3. Dip N. Mahato, A. Dubey, R.H. Pink, R.H. Scheicher, K. Nagamine, E.Torikai, H.P.Saha, Lee Chow, M.B. Huang, T.P. Das, Theoretical Investigation of Nuclear Quadrupole Interactions in DNA at First–Principles Level- Hyperfine Interact. 181 (2008) 81–86.

4. A. Dubey, H. P. Saha, R. H. Pink, Dip N. Mahato, R. H. Scheicher, Mahendra K. Mahanti, Lee Chow, T. P. Das, Nuclear Quadrupole Interactions and Electronic Structure of  $\text{BF}_3\text{-H}_2\text{O}$  Complex, *Hyperfine Interactions* (Springer) 176, 45(2007).

**Member dissertation committees:**

Sadia Arif, Chemistry, 2021

Mohamad Chomas, Chemistry, 2023