

Curriculum-Vitae

Dr. Archana Bhatt
W/O Dr. Vibhor Tomer
C-6, Bhalla Gali
E-mail: archanaphysics12@gmail.com
Mobile No: 9917014049

PROFESSIONAL AND EDUCATIONAL QUALIFICATIONS

- **High School in Science** from **U. P. Board, Allahabad** in 1998 with first division (**Percentage: 68.0**).
- **Intermediate in Science (Physics, Chemistry and Mathematics)** from **U.P. Board, Allahabad** in 2000 with first division (**Percentage: 68.0**).
- **Graduation (B. Sc.) in Science (Physics, Chemistry and Mathematics)** from **Kumaun University Nainital**, in 2003 with first division (**Percentage: 68.25**).
- **Masters with major in Physics** from **Kumaun University Nainital**, in 2005 with first division (**Percentage: 68.50**).
- **Bachelor of Education** from **Garhwal University Srinagar**, in 2006 with First division (**Percentage: 72.50**).
- **Ph. D.** with major in **Physics** and minor in **Computer Science** from **G. B. Pant University of Agriculture & Technology, Pantnagar**, in 2012, **Grade: 7.770/10** i.e. **77.700% of marks**.
Research Area: Nano Materials.
Thesis title: Development of size dependent Equation of state for nanomaterials. Ph. D. Thesis under the guidance of Dr. Munish Kumar (Associate Prof. Department of Physics, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand).
- **U-SET** qualified 2013

Teaching Experience

- **4 month teaching experience as a teaching personal** in Department of Physics, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand) during 2012-13.
- Three academic year teaching experience at **Govt. Engg. College, IT Gopeshwar (Chamoli)**, as Assistant Professor in Mathematics, during 20013-2015.
- Working as Assistant Professor (Guest Faculty-2015) in **Higher Education Department, Uttarakhand, Since Dec 2015 to Present.**

PAPERS PUBLISHED IN INTERNATIONALS JOURNALS

- 1) **Bhatt, Archana** and Kumar, M., Size dependent Equation of state of Nanomaterials. “**International Journal of Nanoscience**” pp1 (2012)11. **World scientific publication (impact factor : 0.6).**
- 2) **Bhatt, Archana.**, Kumar R., Vallabh V. and Kumar M. (2011), Equation of state and pressure dependence of second order elastic constants of γ -Si₃N₄ and diamond composite nanomaterials. “**High Temperature and High Pressure**”, pp13-22(2011)41. **Old city publication (Impact factor :0.438)**
- 3) Kumar, R., **Bhatt, Archana** and Kumar, M. THEORETICAL FORMULATION FOR THE EFFECT OF TEMPERATURE ON NANOMATERIALS,” **Modern Physics letter B**”, pp.2149-2157,(2011)25. **World scientific publication (impact factor : 0.438).**
- 4) **Bhatt, Archana** and Kumar, M., Effect of size, Pressure and temperature on nanomaterials. “**High Temperature and High Pressure**”pp.341-348,(2012)41. **Old city publication (Impact factor :0.438)**
- 5) **Bhatt, Archana** and Kumar, M., Size and orientation dependence of Elasticity of Nanowire and nanofilm .”**European physics letter**”99(2012)16001. **A letter journal exploring the frontiers of physics (Impact factor : 2.753).**
- 6) **Bhatt, Archana** and Kumar, M., Search of Equation of state for Nanomaterials. “**Indian Journal of Pure and Applied Physics**”pp.642-650(2013)

COMMUNICATED PAPERS

- 1) Kumar, R., **Bhatt, Archana** and Kumar, **Analysis of size and shape dependent properties of Nanomaterials** Communicated for publication in Indian Journal of Pure and Applied Physics

PAPERS PUBLISHED IN CONFERENCE PROCEEDING

- 1) Kumar ,M., Kumar, R. and **Bhatt, Archana** , Thermal Expansion of nano-Al based Composites reinforced by Single-walled Carbon Nanotubes ““Role of science and technology in Development of uttarakhand state” Sponsored by Uttarakhand science Education and research centre (U-SERC), Dehradun. UGC and CSIR. october 25-26 (2010).
- 2) **Bhatt, Archana**, Kumar R. and Kumar M., Temperature Dependence of Coefficient of Volume Thermal Expansion of Nanomaterials “National conference on Advances in Physics”, Indian Institute of Technology , Roorkee, 25-26 February 2012.

CONFERENCES ATTENDED/PAPERS PRESENTED

- 1) Presented paper Kumar ,M., Kumar, R. and **Bhatt, Archana** , Thermal Expansion of nano-Al based Composites reinforced by Single-walled Carbon Nanotubes “Role of science and technology in Development of uttarakhand state” Sponsored by Uttarakhand science Education and research centre (U-SERC),Dehradun.UGC and CSIR. october 25-26 (2010).
- 2) Attended workshop on “Advanced Materials and Nanotechnology”,Jaypee Institute of information Technology,Noida,21 March, 2009.
- 3) Attended National Seminar on “Intellectual Property and Innovation Management in Knowledge Era”, G. B. P. U. A. T. Pantnagar, 16 March, 2010.
- 4) Presented paper **Bhatt, Archana** ,Kumar R. and Kumar, M., Size dependence of Bulk Modulus of nanomaterials at different temperature, National Conference on “Uttarakhand state council for Science & Technology” (UCOST), Doon University, Dehradun, 10-12 Nov 2010.
- 5) Attended International Conference on “Cooling the Earth: Traces for Restoring Climate Order and Saving the Living Planet”, G. B. P. U. A. T. Pantnagar, 15-17 Nov 2010.
- 6) Presented paper **Bhatt, Archana**,Kumar R and Kumar, M., Effect of size on Melting temperature and Debye temperature of Nanomaterials, “National Conference on “Uttarakhand state council for Science & Technology” (UCOST), Kumaun University, Almora, 14-16 Nov 2011.
- 7) Presented paper **Bhatt, Archana**,Kumar R. and Kumar M., Temperature Dependence of Coefficient of Volume Thermal Expansion of Nanomaterials “National conference on Advances in Physics”, Indian Institute of Technology , Roorkee, 25-26 February 2012.

TECHNICAL SKILLS

- Operating system : Windows 2003, Windows 2007.
- Programming Languages : FORTRAN.
- Software : Origin.

PERSONAL DETAILS

Date of Birth: 15th July 1983
Fathers Name: Shri C.S.Bhatt
Sex: Female
Nationality: Indian
Permanent address: D/O Shri .C.S.Bhatt,
Near Temple, Pampapuri, Ramnagar (Nainital), Uttarakhand
Pin code: 244715
Phone No: 9917014049 (Mobile),

DECLARATION

I hereby declare that the entries in this resume are true to the best of my knowledge and belief.

(Archana Bhatt)