



### **BIO DATA**

<b>Name</b>	<b>Tarun Garg</b>
<b>ਨਾਮ</b>	<b>ਤਰੁਣ ਗਰਗ</b>
<b>Father's Name</b>	Sh. Prem Kumar
<b>Mother's Name</b>	Smt. Parveen Garg
<b>Date of Birth</b>	30.07.1987
<b>Marital Status</b>	Single
<b>Designation</b>	Assistant Professor – Physics
<b>Department</b>	Punjabi University Guru Kashi College, Damdama Sahib, Bathinda, Punjab.
<b>Nationality</b>	Indian
<b>Qualification</b>	M. Sc. (Hons.) – Physics, CSIR UGC – NET
<b>Contact No.</b>	98762 – 59876
<b>E – mail Address</b>	tarungphy@gmail.com
<b>Permanent/Correspondence Address</b>	#16629A, MCB Z4-4276, Street No. 8, Basant Vihar, Bathinda, Punjab.

### **ACADEMIC QUALIFICATIONS**

<b>Degree/Course</b>	<b>University/Board</b>	<b>% Marks</b>	<b>Major Subjects</b>
<b>Ph.D. (Pursuing)</b>	<b>I.K.G PTU Kapurthala.</b>	-	Material Science
<b>M.Sc. (Hons.) Physics</b> Session: <b>2009-2011</b>	Department of Physics, <b>Panjab University Chandigarh.</b>	<b>67.9%</b>	Astrophysics, Nuclear & Particle Physics, Condensed Matter Physics, Classical Electrodynamics, Mathematical Physics, General Theory of Relativity, Computational Physics, Statistical Mechanics, Classical and Quantum Mechanics.

<b>B.Sc. (Hons.) Physics</b> <u>Session:</u> <b>2006-2009</b>	Department of Physics, <b>Panjab University</b> <b>Chandigarh.</b>	<b>62.3%</b>	Electricity and Magnetism, Mechanics, Electronics, Waves and Optics, Quantum Mechanics, Low Temp. and Vacuum Physics, Nuclear and Particle Physics, Solid State Physics, Mathematics.
<b>XII (PSEB)</b> <u>Session:</u> <b>2004-2005</b>	<b>S.S.D.</b> Sr. Sec. School, Bathinda.	<b>62.4 %</b>	Physics, Chemistry, Biology, English, Punjabi.
<b>X (PSEB)</b> <u>Session:</u> <b>2002-2003</b>	<b>M.S.D.</b> Sr. Sec. School, Bathinda.	<b>85.5%</b>	Mathematics, Science, English, Social science, Hindi, Punjabi.

### **TEACHING EXPERIENCE**

Sr. No.	Period of Employment		Name of Employer/Organization	Post Held	Total Experience	
	From	To			Year	Month
1.	30 <sup>th</sup> July 2011	Till date	Registrar, Punjabi University, Patiala. GKC - Punjabi University Guru Kashi Campus, Talwandi Sabo.	Assistant Professor-Physics (Contract basis)	Six (6)	One (7)

### **RESEARCH EXPERIENCE**

I am pursuing my Ph.D. in the field of Materials Science. Our research group involves in the synthesis and characterization of various metal oxide based systems. We grow thin films by the sol-gel method; one of the most common and earliest known chemical route processes but still very challenging. To synthesize nanoparticles, we use conventional solid-state reaction, hydrothermal, auto-combustion, and a sol-gel method. We intend to study the structural, piezoelectric, multiferroic, leakage current & dielectric properties of materials and to analyze their potential application in self-powered energy harvesting piezoelectricity based nanogenerators.

### **SHORT TERM COURSES/WORKSHOPS/SEMINARS ATTENDED**

- UGC sponsored seminar on “**Punjab Economy: Economic Distress & Development Processes**” organized by PUGKC, Damdama Sahib on 23-24 December 2011
- One-week teachers workshop on the theme “**Learn the Learner**” organized by PUGKC, Damdama Sahib on 09-14 July 2012
- Workshop on “**Innovations in Science**” organized by YCoE, PUGKC, Talwandi Sabo on 12-14 November 2014
- National workshop on “**X-Ray Techniques for Characterization of Materials**” organized by SAIF/CIL, Panjab University, Chandigarh on 11-13 February 2015
- National workshop on “**Computer Science & Technology**” organized by Dept. of Computer Science, PUGKC, Damdama Sahib on 21 October 2015
- One-week short term course on “**MATLAB, A Tool in Research**” organized by Dept. of Mathematics, MNIT, Jaipur on 24-28 December 2015
- National workshop on “**Technical Writing Using LaTeX**” organized by Centre for Information Technology, UPES, Dehradun on 27-28 February 2016

- One-Day Workshop on “**Copy Right, Plagiarism and Research Productivity**” held at I.K Gujral Punjab Technical University, Kapurthala on 30<sup>th</sup> August 2016
- One-Day pre-conference workshop on “**Thin Film & Coating Technology: Science & Industry**” November 13<sup>th</sup>, 2017 at CSIR-National Physical Laboratory, New Delhi in collaboration with Indian Vacuum Society

### INTERNATIONAL CONFERENCES ATTENDED

- 17<sup>th</sup> International Conference on Thin Films (ICTF 2017) November 13<sup>th</sup>-17<sup>th</sup>, 2017 at CSIR-National Physical Laboratory, New Delhi in collaboration with Indian Vacuum Society

### NATIONAL CONFERENCES ATTENDED

- TEQIP-II sponsored National Conference on “**Latest Developments in Civil & Environment Engg.**” at GZSCCET, Bathinda on 15-16 October 2015
- SERB sponsored National Conference on “**Recent Advancements in Science, Commerce & Technology**” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016

### PAPERS PRESENTED AT NATIONAL CONFERENCES

- Paper presented titled “**A Brief Study: Multiferroic Thin Films**” at TEQIP-II sponsored National Conference on “Latest Developments in Civil & Environment Engg.” at GZSCCET, Bathinda on 15-16 October 2015
- Paper presentation titled “**An Insight to Solution Combustion Synthesis**” at TEQIP-II sponsored National Conference on “Latest Developments in Civil & Environment Engg.” at GZSCCET, Bathinda on 15-16 October 2015
- Paper presented titled “**Ferroelectric Materials & It’s Composites**” at TEQIP-II sponsored National Conference on “Latest Developments in Civil & Environment Engg.” at GZSCCET, Bathinda on 15-16 Oct. 2015
- Paper presentation titled “**BiFeO<sub>3</sub>: A Case Study**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016
- Paper presentation titled “**Determinants of Dielectric Constant and its Variation-A Review**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016
- Paper presentation titled “**Study of Phase Variation in Bismuth Ferrite by Bismuth Off Stoichiometry**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016
- Paper presentation titled “**Role of Polymer Matrix in Polarization Mechanism in NaNO<sub>2</sub>-PVA Ferroelectric Composite Films**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016
- Paper presentation titled “**Capacitance-Voltage Characteristics in Ferroelectric NaNO<sub>2</sub>-PVA Composite Films**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016

### POSTER PRESENTED AT NATIONAL CONFERENCES

- Poster presented titled “**Dielectric & Ferroelectric Properties of KNO<sub>3</sub>**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016
- Poster presented titled “**Synthesis of Metal Oxide Nanomaterials via Solution Combustion Method-A Review**” at SERB sponsored National Conference on “Recent Advancements in Science, Commerce & Technology” at Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April 2016

#### **OTHER ACADEMIC ACHIEVEMENTS**

- Participated and successfully completed online certification course on “**MATLAB Programming for Numerical Computation**” Jan to Mar 2016 by NPTEL (Funded by Ministry of HRD, Govt. Of India) in collaboration with IIT-Madras scoring 68% with ELITE distinction
- Participated in the “**Acquaintance Program of Inter-University Accelerator Centre, New Delhi**” at Central University of Punjab organized on 4<sup>th</sup> April 2016

**Tarun Garg**  
**16.03.2018**