

# CURRICULUM VITAE

## ROHIT VERMA

**Age:** 33, **Marital Status:** Married.  
**Address:** Rayat Institute of Engineering  
& Information Technology, V.P.O. Railmajra,  
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### EDUCATION:

**1. Ph.D.: Nov 2005-Feb 2013**

*"Implications of Precision Measurements on CKM Phenomenology, Neutrino Oscillations and Mass Matrices"*

Department of Physics, Panjab University, Chandigarh, India.

**2. M.Sc.: July 2002-June 2004** First Division with Distinction,  
Department of Physics, Panjab University, Chandigarh, India.

**3. B.Sc.: July 1998-June 2002** First Division,  
Department of Physics, Panjab University, Chandigarh, India

### RESEARCH INTERESTS:

- Flavour Physics: Bottom Up & Top Down Approaches
  - Phenomenological Fermion Mass Matrices
  - Textures, Weak Basis Transformations and  $S_3$  Transformations
  - Matrix Perturbation Theory
  - $SO(10)$  inspired mass matrices
- Neutrino Physics
  - Dirac and Majorana Mass Matrices
  - Normal and inverted hierarchy of neutrino masses
  - See Saw Mechanisms
  - Neutrino Oscillations
- CP Violation

### AWARDS/SCHOLARSHIPS:

- Silver Medalist (**2nd in University**) in M.Sc. (H. Sc.) Physics.
- Bronze Medalist (**3rd in University**) in B.Sc. (H. Sc.) Physics.
- **Merit Scholarship holder** during M.Sc.
- I was awarded First Prize for my Research Paper titled "**Compatibility of Texture Specific Mass Matrices with Recent Quark Mixing Data**" at the 3rd Chandigarh Science Congress.

### TEACHING EXPERIENCE:

- **Assistant Professor: 8 years of teaching experience in teaching Physics to Engineering undergraduates.**
- **Currently working as Associate Professor** in Rayat Institute of Engineering and Information Technology, Ropar, Punjab, India.
- Grading, lecturing, instructing in laboratory, student counseling, organizing Conferences, Workshops, Guest lectures and renewal of college affiliation/accreditation.
- Experience of working in teams.
- Ability to communicate complex concepts to many audiences.

## **SOFTWARE SKILLS:**

MATHEMATICA, Statistical analysis and graph plotting using SIGMAPLOT, Computation Techniques using Intel Parallel Studio XE (Fortran).

## **REFERENCES:**

- 1. Prof. Manmohan Gupta**  
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- 2. Prof. Manjit Kaur**  
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- 3. Prof. Devinder Mehta**  
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- 4. Prof. Sandeep Sahijpal**  
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