

EDUCATION/LICENSES

- Standard Texas teaching certificate since June 2010 in Science 8-12
- **BS** in Industrial Microbiology (**Minor** Botany, Chemistry)
Patna University, Patna, India **GPA 4.00** **1999- 2002**
- **MS** in Molecular and Human Genetics (**Minor** Biochemistry)
Banaras Hindu University, Varanasi, India **GPA 4.00** **2002 -2004**
- **MS** in Molecular and Cell Biology
University of Texas at Dallas, US **GPA 3.80** **2005 -2007**

MAJOR ACHIEVEMENTS:

- Awarded teacher of the year at HSA Carrollton high school for the school year 2017-2018
- Awarded HSA Carrollton STEM teacher of the year 2016-2017 and recognized by TEA
- Publication Lou TF, Singh M, Mackie A, Li W, Pace BS.(2009) Hydroxyurea generates nitric oxide in human erythroid cells: mechanisms for gamma-globin gene activation. *Exp Biol Med* (Maywood). 2009 Nov; 234(11):1374-82. doi: 10.3181/0811-RM-339. Epub 2009 Aug 5.
- Publication Liu L, Muralidhar S, Singh M, Sylvan C, Kalra IS, Quinn CT, Onyekwere OC, Pace BS.(2009) High Density SNP genotyping to define beta-globin locus haplotypes. *Blood Cells Mol Dis*. 2009 Jan-Feb; 42(1):16-24. Epub 2008 Oct 1.
- Scored ninety seven point eight one percentile All India rank 102 in GATE (GRADUATE APTITUDE TEST IN ENGINEERING) 2004 Subject Life Sciences

EXPERIENCE

Harmony Public Systems **August 2009 – current**
Project Lead the Way affiliated biomedical pathway sequence, AP Biology, Dual Credit BIOL 1406 and 1407 through Brookhaven community college

- Presenter at Texas STEM conference 2017
- PLC lead teacher for PLTW biomedical pathway since 2017

Newman Smith High School Summer Program **Dallas, TX** **June 2009 – July 2009**

IPC Class (10th, 11th, 12th grade students)

- Designed and taught lessons with increasing responsibility in the classroom and laboratory of a cooperating teacher

- Class averages increased from 70 % to 80% by the end of the summer term

Teaching Assistant at University of Texas at Dallas January 2006 – January 2008

Undergraduate Courses

- Setting course curriculum, conducting laboratory sessions, teaching course, conducting review sessions for introductory Biology, Genetics, Anatomy and Physiology, Molecular basis of disease.
- Leading and management of under graduate TAs, preparing exam questions, conducting exams, proctoring, grading exams, calculating grace, submission of grades

Summer Institute of Biomedical Research (SIBR) program - Dr. Pace's Lab (University of Texas at Dallas) From June 1st 2007 to July 27th 2007

- Taught theoretical and practical concepts related to life sciences
- The participants were students in grades 10th, 11th and 12th.

Life Science Research experience from August 2005 to November 2007

- In Dr. Betty Pace's Laboratory University of Texas at Dallas
- Research directing towards finding cure for Sickle cell disease
- Worked in the laboratory with diverse group of people creating a responsible and cooperative atmosphere.

SKILLS

- Extensive knowledge of MS Office
- Skilled in developing and implementing high quality and interdisciplinary curriculums.
- Determined and passionate about accomplishing goals, with a work ethic founded on creative thinking and continuous improvement