Pawan Kumar Thapaliya 4695315525

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Objective

Seeking to obtain a challenging position in a professional environment in Physics and Data science towards career advancement.

EDUCATION

Tribhuvan University -Kathmandu, Nepal Graduate date

Master of Science Dec/2011

The University of Texas Rio Grande Valley - Brownsville, Texas Graduate date

Master of Science in Physics July 2019

Activities:

American Physical Society, Member 11/2016 - Present

The American Association of Medical Physics, Member 11/2016 - Present

Relevant Coursework:

- Mathematical Physics
- Classical Mechanics
- Graduate Research
- Electrodynamics
- Quantum Mechanics(I,II)
- Computational Physics
- Statistical Mechanics

EXPERIENCE

University of Rio Grande valley - Edinburg, Texas

Research Assistant in Bio Physics: Work - Study 08/2016 - 08/2017

- Study DNA and DNA topology
- Study Monte Carlo Simulations technique in single molecules.
- Design a extended model of Peyrard Bishop model for DNA helix.

- Use LINUX to study the Knot and Knot plotting
- Use Python programming language to analysis the topological structure and DNA stretching

Teaching and Research Assistant at Department of PHYSICS (UTRGV) : Work-Study 09/2017 - 05/2019

- Taught Astro -1401 and Astor-1402
- Taught PHYS-1401 , PHYS-1402, and Gen PHYS 2425

Master Thesis Defense date: 07/2019

Bubble Nucleation and Coopetativity in Duplex Stretching of a Helicoidal DNA Model: The University of Texas Rio Grande Valley, Pro-Quest Dissertations Publishing, 2019.13898015

University of South Florida – Tampa Florida

Teaching and Research Assistant at Department of PHYSICS(USF): Work-Study 08/2019 -

Present

- Teaching General Physics II Labs 2049
- Study Gamma and Theta rhythms of Hippocampus Cells.
- Study Na+ oscillations of the neurons and astrocytes

Gorakh Kali High school , Balaju, Kathmandu, Nepal 5/2013 - 8/2016

Secondary Physics Teacher

- Taught High School Physics
- Helped student to understand the nature of physics through numeric approach
- Demonstrate the principal of Physics through experimental approach

SELF EMPLOYMENT

Worked as a Tutor 1/2007 - 7/2016

- Each year taught 6-10 High school student
- Helped student to solve the Problem from Science.
- Helped Student to solve the Problem from Compulsory math.
- Helped student to solve the problem from Optional Math.
- Always created real life scenario to make them clear about the problem.
- avoid formula method and adopted practical method to make them understanding.

SKILLS

Trilingual in Nepali, English and Hindi: read, write and speak.

Microsoft Office(Word, Excel, Power Point), Linux, Capstone, MATLAB, Mathematica,

matplotlib, Pandas, Numpy

Computational skills to accomplish Monte Carlo simulations and Markov chain using Python, FORTRAN, and C++.

TRANING:

Attended Professional Development Session for Teaching Assistant 09/15/2016

Classroom Management Training at UTRGV Brownsville 11/20/2018

STEM Laboratory three day TA Training University of South Florida 08/20/2019-08/22/2019

ITA Language Assessment preparation/PAS workshops on AUGUST 27th and 28th 2019 at University of South Florida.

ITA assessment presentation at 3:30 this Friday, September 6, in FAO 019

Fall 2019 TA Training - August 19th 8:30 a.m. - 4:00 p.m. at AA Academy for Teaching and Learning Excellence USF

REFERENCE 1

Andreas Hanke

Reference2

Soma Mukherjee