Ibraheem Faisal Al-Yousef

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GitHub LinkedIn

INTRODUCTION

I am a keen physics student, interested in theoretical aspects of physics especially in implementing numerical approaches to physical phenomena. I am passionate to learn, and a fast learner. I have remarkable teaching skills which I have developed during my undergrad experience at KFUPM.

EDUCATION

B.S. in Physics, KFUPM, expected to graduate in Spring 2022. Major GPA: 2.67 out of 4.

RESEARCH EXPERIENCE

Currently working with Prof. Bahlouli and Prof. Alhaidari in implementing an alternative formulation of quantum mechanics without dealing with potential functions, check. My work is mainly focused on implementing the numerical approach to obtain specific wavefunction plots.

COMPUTATIONAL SKILLS

I have done multiple numerical projects including quantum and classical physics using Mathematica. Mainly on symbolic calculations, derivations, and visualizations.

I have been taking "Computational Chemistry" course which has given me hands-on experience in using WebMO interface and Psi4 library in Python. By using post-Hartree-Fock methods and DFTs.

Competent in Mathematica and Python. Intermediate knowledge and usage of LaTeX.

WORK EXPERIENCE

I am working as a part-time job grader for PHYS102. This work experience has further enriched my knowledge in physics and exposed me to some common mistakes in physics.

PROFFESIONAL CERTIFICATIONS

- Data Analysis Using Python
- LabVIEW Programming

REFRENCES

Avaliable on request