

Ibraheem Faisal Al-Yousef

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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 enjoy teaching, a skill that I have developed during my undergrad experience at King Fahd University of Petroleum and Minerals.

EDUCATION

B.S. in Physics, KFUPM, expected to graduate in Spring 2022.

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 numerical solutions and corresponding visualizations.

COMPUTATIONAL SKILLS

Done multiple [numerical projects](#) including quantum and classical physics using Mathematica. Mainly on symbolic calculations, derivations, and visualizations.

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 DFT.

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

WORK EXPERIENCE

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
- Introduction to LabVIEW Programming

References are available on request