

Meysam Hassandoust

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Education

Shahid Beheshti University

BTech in Physics

Tehran, Iran

Sep 2019 - Current

- **Courses:** Mathematical Physics , Quantum Mechanics , Electromagnetism , Electrodynamics , Analytical Mechanics , Theory of Relativity , Solid State Physics, Foundation of Matrices and Linear Algebra

Atomic Energy High School

High School

Tehran, Iran

Apr 2016 - Apr 2019

- Passed with Distinction
- Specialised in Physics and Maths

Research Experience

Shahid Beheshti University

Quantum Mechanics

Tehran, Iran

Sep 2022 - Jul 2023

- Supersymmetry in Quantum Mechanics for Dirac equation in FRW space time
- Supersymmetry time dependent in Quantum Mechanics

Shahid Beheshti University

Quantum Optics

Tehran, Iran

Jun 2022 - Sep 2022

- Literature Review on Rydberg RF Receiver Operation to Track RF Signal Fading and Frequency Drift .
- Literature Review on Electromagnetically Induced Transparency (EIT) .
- Literature Review on Atom based RF electric field sensing .
- Investigating the phenomenon of anti-resonance and resonance in coupled oscillators and comparing the Fano phenomenon in classical and quantum states .
- Analytical solution of N Coupled Oscillators in Classical Mechanics .

Shahid Beheshti University

Mathematical Physics

Tehran, Iran

Jun 2022 - Apr 2023

- Pseudo-Supersymmetry time dependent in Quantum Mechanics
- Literature Review on Pseudo-Hermitian Hamiltonian Representation Of Quantum Mechanics .
- Literature Review on Pseudo-Supersymmetry in Quantum Mechanics .

Shahid Beheshti University

Computational Work

Tehran, Iran

Jun 2020 - Jul 2022

- Numerical Approach (Monte Carlo Method) For Feynman Path Integral . (Basic)
- Numerical Approach For Schrödinger Equation .
- Numerical solution of Laplace Equation in Electromagnetic .
- Numerical solution of Ising Model .
- Numerical solution of the Three-Body Problem .

Teaching Experiences

Quantum Mechanics I Teacher's Aide

Shahid Beheshti University

Tehran, Iran

Sep 2022 - Feb 2023

- Course Instructor: Prof. Ali Sadeghi

Mathematical Physics II Teacher's Aide

Shahid Beheshti University

Tehran, Iran

Mar 2021 - Jun 2022

- Course Instructor: Prof. Ali Hosseini

Analytical Mechanics II Teacher's Aide

Shahid Beheshti University

Tehran, Iran

Mar 2021 - Jun 2022

- Course Instructor: Prof. Mohammad Aliakbari

Mathematical Physics I Teacher's Aide

Shahid Beheshti University

Tehran, Iran

Sep 2021 - Feb 2022

- Course Instructor: Prof. Ali Hosseini

Skills

Programming Python , C/C++, HTML/CSS , Mathematica , Word , Excel.
Soft Skills Time Management, Teamwork, Problem-solving.

Achievements

2023	Ranked , One of the first 15 students in the national master studies entrance exam	<i>Iran</i>
2018	Pass , Passing the First Stage Of Astronomy Olympiad	<i>Iran</i>
2018	Pass , Passing the First Stage Of Physics Olympiad	<i>Iran</i>
2018	Pass , Passing the First Stage Of Mathematics Olympiad	<i>Iran</i>
2018	Level 6 , Ranked 6th in the Messie Marathon	<i>Iran</i>
2014	Winner , National Gold Medal WMTC Mathematics Competition	<i>Iran</i>
2013	Pass , Passing the second Stage Of IMC Mathematics Competition	<i>Iran</i>

Interests

Sport	I have played in the Mahram team in the youth category and after that I switched to street basketball.
Cooking	I love cooking. I am an expert in most Indian-style cooking, enjoy baking and making my own pizza.
Music	I am a Setar musician and used to compose music
Art	I have always enjoyed drawing since I was a child. Recently, I work with graffiti
Video Games	I always had the gaming gene. I mostly play on my PC.

Languages

English	Upper Intermediate
Persian	Native proficiency