Sina Etebar

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Personal Website

Summary

- Highly motivated researcher with strong communication and problem-solving skills, experienced in theoretical modeling and data analysis, resulting in a Silver Medal Award.

- Passionate physicist with 3+ years of experience as a Teaching Assistant.

Education

B.Sc. in Physics, Isfahan University of Technology   2017 - 2021

Thesis title: "The Role of Sterile Neutrinos to Explain Various Anomalies Observed in Neutrino Oscillation Experiments" GPA: 16.17 (out of 20)-(last 2 year 17.48)

Research Interests

- Particle Physics
- Dark Matter
- Neutrino Physics
- Cosmology
- BSM Physics
- Effective Field Theory

Experience

Teaching Assistant   2020 - 2024

Department of Physics, Isfahan University of Technology, Isfahan, Iran

Where I was a teacher's assistant in:

- Electrodynamics, Dr.Azar Tafrihi   Sep 2023 - Jan 2024
- Analytical Mechanics1, Dr.Farhang Loran Esfahani   Jan 2023 - Jul 2023
- Analytical Mechanics2, Dr.Soroush Shakeri   Jan 2023 - Jul 2023
- Analytical Mechanics1, Dr.Soroush Shakeri   Jan 2022 - Jul 2022
- Electromagnetism1, Dr.Azar Tafrihi   Sep 2020 - Jan 2021
- Analytical Mechanics2, Dr.Soroush Shakeri   Sep 2020 - Jan 2021

Conducted tutorials, graded assignments, mentored and guided students during office hours, organized and proctored exams and maintained regular communication with students.

Scientific President   2019 - 2020

Elected as President, leading student research initiatives and events

Isfahan University of Technology, Isfahan, Iran

Award & Honors

- Silver Medal Winner

  The University Physics Competition is an international contest for undergraduate students. Teams of three students from colleges and universities worldwide spend a weekend analyzing a real-world scenario using physics principles. They then write a formal paper describing their work. Our team won a silver medal among 346 teams in 2020, with the guidance of faculty sponsor Dr. Soroush Shakeri.

- Full Scholarship for Bachelor of Science in Physics, Isfahan University of Technology, Isfahan, Iran, 2017

- Within the top 2% among 300,000+ participants in Iran's National University Entrance Exam for the undergraduate program, 2017

License & Certifications

- IV Joint ICTP-Trieste/ICTP-SAIFR School on Cosmology

- IN2P3 School of Statistics SOS2021

- 2nd CERN HEP C++ Course and Hands-on-Training

- 13th Inverted CERN School of Computing

- Quantum 2020

- 2020 Vienna Summer School on Gravitational Quantum Physics

English Tests

IELTS (Academic): 7 (overall score)
Listening: 7.0, Writing: 6.5
Speaking: 6.5, Reading: 7.0
Test date: 12/02/2023

Computer Skills

Languages: Python, C++, LaTeX, HTML, CSS, JavaScript, PHP, MySQL
Tools: Matplotlib, Jupyter, MadGraph, Git, Microsoft Office, Illustrator

Hobbies

Traveling, History, Photography, Learning Languages