

AWARDS &
ACHIEVEMENTS

- Awarded scholarship from the **National Elites Foundation**, Tehran, Iran, 2018
- **Silver medal**, in the National Olympiad of Astronomy and Astrophysics, Tehran, Iran 2017
- Member of **Iran's National Elites Foundation**, Tehran, Iran 2017
- Accepted into the pre-regional exam at the National Olympiad of Physics, Tehran, Iran 2016

SELECTED
COURSES

- **Physical Properties of Galaxies**
University of Vienna (In progress)
- **Galactic and Extra-galactic Star Clusters**
University of Vienna (In progress)
- **Star Formation: From Molecular Clouds to Protostars**
University of Vienna (In progress)
- **Radiative Processes and Spectra in Astronomy**
ISTA (In progress)

[Further descriptions](#)

TEACHING
EXPERIENCES**Teaching Assistant:**

[VISTA science experience center](#)

Oct 2024 - Present

Teaching Assistant: Stochastic Processes in Bio-informatics (M.Sc)

[Dr. Mohammad Hossein Rohban](#)

Spring 2022

Teaching Assistant: Game Theory (M.Sc)

[Dr. Mohammad Hossein Rahmati](#)

Spring 2022

Teaching Assistant: Modeling Stochastic Phenomena (B.Sc/M.Sc)

[Dr. Fakhteh Ghanbarnejad](#)

Spring 2021

Olympiad Instructor

Providing courses to prepare high school students for the national and the international Astronomy Olympiad.

2017 - Present

- Teaching topics: classical mechanics, astrophysics, cosmology, spherical astronomy, data analysis
- Institutions: summer school of the National Astronomy and Astrophysics Olympiad - Austria and Iran, [Farzanegan 1](#), [Farzanegan 2](#), [Salam](#)

[Further descriptions](#)

INTERNSHIP

Preparing arbitrary fock states in a cavity, using the GRAPE algorithm

Supervisors: Prof. Benjamin Huard and Dr. Audrey Bienfait

(Quantum Circuit Group, ENS Lyon, France)

Jul - Oct 2022

- Using the GRAPE algorithm to find the control pulses in a cavity-qubit coupled system to reach an arbitrary fock state in the cavity and finding the right translation between simulation values and amplitudes in the experiment.

[Further descriptions.](#)

SKILLS

Programming Languages: Python (Astropy, [COSMIC](#), SciPy, Pandas, Matplotlib, Seaborn, Numpy, QuTiP, NetworkX), Matlab

Tools: [MESA](#), \LaTeX , Mathematica, Inkscape

LANGUAGES

Persian: Native, **English:** Advanced (TOEFL: 104/120), **German:** Beginner

REFERENCES

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