

MARYAM VAZIRNIA | CURRICULUM VITAE

PHYSICS RESEARCHER AND MACHINE LEARNING LEARNER

Passionate about science and creative works, with strong

technical and analysis skills for working in a team.

I am interested in cosmology and machine learning

PERSONAL INFORMATION **OBJECTIVE**

Address: Qom, Iran Date of birth: 1988/10/06

Nationality: Iranian +98-9124515770

ANGUAGES

★★★★☆ English

★☆☆☆ German

EDUCATION

SOCIAL PROFILES

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Maryam.vazirnia@gmail.com

Maryam-vazirnia

* October 2017 - till now

Doctorate of physics, Bu-Ali sina Univerity, Hamedan, Iran

Supervisors: Dr. Ahmad Mehrabi

Thesis: "Investigation of cosmological parameters using

Methods independent-model of statistical."

* October 2012 -February 2015

Master of Physics, Alzahra University, TEHRAN, IRAN

Supervisors: Dr. Mohammad Taghi Mirtorabi

Thesis: "Production of black holes in the early universe".

* September 2006 -February 2011

Bachelor of PHYSICS, Qom University, Qom, Iran

Supervisors: Dr. Mohammad Mahdi Etefaghi Final Project: "Detection of neutrinos",

EXPERIENCE

October 2021-till now **Physics teacher** at Savior School *Qom (International School)*

October 2021-till now Script writer About astronomy Voluntary collaboration with

Nemeth / Star Productions group in Germany

Astronomy teacher at Center for the intellectual June 2021-September 2021

development of children and teenagers, Qom, Iran

October 2015 – June 2017 Master of University at Qom University, Qom, Iran

May 2013- October 2019 Expert in astronomy & physics at Astronomy Center of Qom

Private Tutor at self-employment, Qom, Iran January 2012- till now

May 2011 - September 2012 Scientific expert at Imam-Hadi Institute, Qom, Iran

SKILLS

 ★★★★★ Microsoft Office Word
 ★★★★★ Teacher physics and math
 ★★★★★ Latex

 ★★★★★ python
 ★★★★★ Microsoft Excel
 ★★★☆ Linux

★★☆☆ Machine Learning ★★☆☆ HTML ★★☆☆ CosmoMc

TALKS AND PRESENTATIONS

* World Astronomy Day, Astronomy Center of Qom, May 2007

Talk: "the Big Bang"

* Astronomy workshop, Alzahra University in Tehran, March 2013

Talk: "Cool white dwarfs"

* Astronomy workshop, Astronomy Center of Qom, July 2016

Talk: "star formation"

* Astronomy workshop, Primary schools in Qom province, November 2016

Talk: "Meteors"

* Data analysis workshop, Bu-Ali Sina University in Hamedan, May 2018

Talk: "Data analysis by methods independent -model statistical"

HONORS

Ranked 600th Among More Than 800,000 Participants in Master entrance exam in physics, Iran, September 2012

Ranked 700th Among More Than 20,000 Participants in Konkour of PhD in physics, Iran. September 2017

PUBLISHED

- * Author of various articles related to Recognize the star in Astronomy Magazine (in Persian), http://www.nojum.ir/ April 2021
- * "Non-parametric modeling of the cosmological database on the $\chi 2$ distribution " Accepted 23 November 2021 in Phys. Rev. D (PRD).
- * "Estimation of the dark energy density parameter and its dependence on the mater and curvature density." under review in Physical Review D (PRD).

RESEARCH INTERESTS

Cosmology Data Analysis and modelling Machine Learning
Gravity Dark Energy Galaxy evolution