Ali Salehi

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EDUCATION

Shahid Beheshti University

September 2020 – Present

Masters of Science in Physics, Cosmology and Gravitation

Isfahan University of Technology

September 2016 – August 2020

Bachelor of Science in Physics

Cumulative GPA: 18.27/20

EXPERIENCE

Chess coach and tech support

April 2020 - Present

Ebrahim Naami's chess club

Tajrish sq., Tehran

- Design and maintenance of chessnaami.ir
- Organizing weekly online chess tournaments
- Teaching elementary and intermediate level chess

Teacher's assistant of astrophysics course

February 2020 – June 2020

Isfahan University of Technology

• Correcting papers and solving problems for the class participants

President of Scientific Society of Astronomy

September 2018 – August 2019

Isfahan University of Technology

- Organized weekly observations and stargazing events on the roof of the physics department
- Organized two observation events in the Varzaneh desert
- Managed a team of eight people for astronomy stalls in physics day annual exhibition
- · Managed a stall in annual Harkat exhibition for university's scientific societies
- Managed and organized various other programs including lectures and workshops, etc. in the physics department

Council member of Scientific Society of Astronomy

September 2017 – August 2018

Isfahan University of Technology

- Operated telescopes on weekly observations and stargazing events on the roof of the physics department
- helped organized four observation events in the Varzaneh desert
- Operated a solar telescope in physics day annual exhibition
- Took part in annual Harkat exhibition for university's scientific societies
- Helped in organizing various other programs including lectures and workshops, etc. in the physics department

PROJECTS

Preparing and testing properties of $(K_{0.5}Na_{0.5})NbO_3$ (KNN) based lead-free ferroelectric ceramics Condensed Matter, Electronics, Python

August 2020 - February 2021

- Developed a tool to plot hysteresis loops of materials, compare them and calculate several properties using python
- \bullet Helped synthesize KNN based ceramics with different dopings
- Worked with and helped repairing various laboratory instruments

Detecting the inner regions of discs around sources of microlensing with Roman Space Telescope Astrophysics, $Gravitational\ Microlensing$, Python, C++

August 2019 – August 2020

- Developed codes to calculate properties of microlensing events using *MulensModel* python library
- Developed codes to optimize model parameters for lensing events using scipy and numpy python libraries
- Took part in writing a journal paper which was published in MNRAS

Publications

Detecting the inner regions of discs around sources of microlensing with $Roman\ Space\ Telescope$

S. Sajadian, A. Salehi,

Monthly Notices of the Royal Astronomical Society,

 $\label{eq:Volume 498} \mbox{Volume 498, Issue 1, 11 October 2020, Pages 1298-1307,}$

doi:10.1093/mnras/staa2377

Awards

National Olympiad of Physics for college students (2019)

13th place

Knowledge & Skills

Languages

- Farsi (native)
- English (fluent)
- German (basic)

Technical

• Scientific programming with python

Libraries: numpy, scipy, sympy, pandas, matplotlib, MulensModel, netwokx

• Familiar with

C/C++, Cadabra

• Other tools

Linux, LATEX, Beamer, Wordpress