



Mersad Mostaghimi

Curriculum Vitae

Career Objectives

As a self-motivated and responsible person, I believe on one sentence, "The riskiest thing is to take no risks." So I love problem solving, taking risk, trying to be bold and explore myself at technological field. At the same time, I am looking forward to challenging and growth oriented tasks that help to prove the best of my ability in achieving the objective of the job. I love learning new things and I think the best way for learning is first study and then teach others what you learn by yourself. Computer play an extreme role in my life because half of my world is in computer.

Education

2013 - 2016 **Master of Science in Computational Solid State physics** , *Isfahan University of Technology(IUT)*, Isfahan.

Thesis Title: Developing an interface code between FPLO and WANNIER90 for calculating maximally localized wannier functions

2008-2012 **Bachelor of Science in Solid State physics**, *Payam-e-Noor University(PNU)*, Isfahan.

2004-2008 **Mathematics and Physics Diploma**, *Sheykhzadeh Harati College*.

Technical Skill

Quantum Simulation Software **FPLO** (my professional code), **Quantum Espresso** (some good experience), **FHI-aims** (good experience), **Wannier90** (know the concepts and some experience), **Octopus** (elementary knowledge)

Programming Language **C/C++**, know syntax and concepts, passed a course in university , **Fortran**, beginning

Scripting Language **Bash** (know syntax and some simple work, finish the codcademy course))

Python (have some long coding experience and it is my favorite language which I done my M.Sc thesis by using python, finish the codcademy course)

Math Laboratory **Matlab**, **Octave**, **Sage** (low syntax knowledge)

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Operation System **Gnu/Linux** (more than 6 year experience and using it as main OS), **Microsoft Windows** (I know it but I dont like it)

Data Visualizer **xmgrace**(good), **gnuplot**(good)

structure Visualizer jmol, xcrysden, vesta, avogadro

Documentation software **Latex** (good, not micro developing,preferred),**LibreOffice**(good),**ICDL** (good,selfstudy)

Development Tools Vim, Geany, Spider, pycharm, Eclipse , Net-Beans

Version Controlling Tool GitHub URL <https://github.com/mersadkhan>

Concepts Functional Programming, Density Functional Theory, Maximally Localized Wannier Functions, Full potential Local Orbital

Language Persian(Mother tongue), English(good)

Selected Work Experiences

Quantum Simulation Lab - Isfahan University of Technology

Description The laboratory is the highest rate lab in quantum simulation of matters in Iran under Prof.Hadi Akbarzadeh leadership. Visit its website here

Role software and hardware installing and compiling, Linux expert, website manager, ...

TECAM - ISFAHAN

Description TECAM is one of the most famous groups and store which produces and cells laboratory equipments, chemical matters and also training technology. visit website here

Role manager of chemical matters

Teaching and Teacher Associating

Computational Physics for Postgraduate Student - IUT

Teacher Dr. Mojtaba Alaei

Role Teacher Assistant

Linux Teacher in IUT and PNU

Description I taught linux essential (according to LPIC) to new postgraduate students for two term in IUT and one term for undergraduate students in PNU

Extra-Curricular Activities and Associations

Heliad Astronomy society-Isfahan

Description It is a group in PNU which teach and expand amatory stargazing.

Role Volunteer, Director of Public Relations and Advertising, tour guide

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Center of Physics for Students PNU

Description it is an student group which encourage and organize extracurricular around physics in PNU.

Role speaker,teacher,researcher around solar energy systems(I made a solar dish in an exhibition for new students)

Isfahan Linux User Group(ILUG)

Description Weekly meeting of GNU/Linux users in Isfahan that speak and promote the Free-software and GNU/Linux culture

Designation General member

Executive in several exhibitions ,celebration and Seminars

Description More than 10 different exhibitions ,celebration and Seminars in PNU and IUT

Role announcer and executor

Achievements

2010 accepted poem in the 1th national poem of PNU

2007 one of the accepted article in student research center of Saeb in Isfahan

Workshops, Seminars and Conferences

2015 Participate in the "4th high performance computing workshop (python scripting)-Iran,Yazd"

2015 Working in the organizer team of IUT arrange to Iran 12th Conference on Condensed Matter"

2015 Working in the quantum simulation matter of IUT for workshop of Octopus

2013 Working in the organizer team of the "2th National Conference on Climate, Building and Energy Efficiency-Isfahan,Iran"

2009 Head of organize team of "Beginning Celebration of the International Year of Astronomy in Isfahan"

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References

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