



Mohammad Afkani

Physics Student



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About me

I'm a physics student highly enthused about the Universe.

The deep nanoworld engages my curiosity, the way it affects human being and vice-versa.

Coding

GNU/Linux & Bash & Git

C & Python

L^AT_EX & Microsoft Office

WordPress & HTML/CSS/JS

Softwares

Quantum ESPRESSO

WIEN2k

BoltzTrap2 & Kwant

XCrysDen & VESTA

Languages

English (IELTS 7)

Persian (Native)

German (Basic)

Education

2020	B.Sc. Solid-State Physics Fully Funded Scholarship, GPA [†] : 2.1	Kharazmi University
2015	Diploma Mathematics and Physics. Fully Funded Scholarship, GPA [†] : 1.5	Dehkhoda High School

Publications

2020	Bulk and surface DFT investigations of the electronic and magnetic properties of CsXNO (X = Mg, Ca and Sr) quaternary Heusler alloys	Materials Chemistry and Physics
2020	Inflation: Are latest detected events of gravitational waves in favor of string theory?	arXiv:2003.00450

Poster Presentation

2019	Investigation of the electronic and thermoelectric properties of GeS monolayer	NCWNN
2019	Electronic and elastic properties of the full Heusler structure Zr ₂ RhAl	14 th Conference on Condensed Matter
2018	Investigation of the structural, electronic and magnetic properties of silicon carbide monolayer coated with manganese using density function theory	The Annual Physics Conference Of Iran
2018	Electronic and optical properties of Penta-BP ₅ monolayer	The 7th International Congress on Nanoscience

Memberships

2017-2020	Physics Society of Iran
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Activities

2017-2020	Volunteer Librarian Administrator; Faculty of Physics
2020	Workshop Instructor; Linux Essentials for Physics students
2020	Teaching assistant; Fundamentals of Physics II
2018	Teaching assistant; Analytical Physics II
2017	Multi computers clustering; Faculty of Physics
2016	Running library management system(KOHA); Faculty of Physics

Experiences

2020	Physics School 25 th Physics School at The institute for advanced studies in basic sciences	IASBS
2019	Executive director Yaldā's night party	Faculty of Physics
2018	Workshop 2 nd Workshop on Machine Learning in Physics: Applications in Condensed Matter Physics	Tehran University
2018	Lecture Ubuntu 18.04 LTS release party	Faculty of Physics
2017	Presentation The first startup weekend in Karaj	Startup Weekend

Interests

Computational physics, Open-source projects, GNU/Linux, Machine learning, Hiking, Yoga

[†] Germany grading scale: Modified Bavarian formula