



Mohammad Afkani

Physics Student

9 December 1996

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About me

I'm a Physics student interested in laws of the Universe. curiosity made me find answers to questions in the deep nanoworld, the way it affects the human being and vice-versa.

Coding

Linux & Bash & Git

C & Python

LaTeX & MS Office

WP & HTML CSS JS

Softwares

Quantum ESPRESSO

WIEN2k

BoltzTrap2

XCrySDen & VESTA

Interests

Condensed Matter Physics, Nano Physics, Computational Physics, Open-source Projects, Linux, Machine Learning.

Education

2020	B.Sc. Solid-State Physics Fully Funded Scholarship, GPA [†] : 2.1	Kharazmi University
2014	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 (accepted)	Materials Chemistry and Physics
2020	Inflation: Are latest detected events of gravitational waves in favor of string theory?	arXiv:2003.00450
2019	Investigation of the electronic and thermoelectric properties of GeS monolayer (NCWNN)	conference
2019	Electronic and elastic properties of the full Heusler structure Zr ₂ RhAl.(14th Conference on Condensed Matter)	conference
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)	conference
2018	Electronic and optical properties of Penta-BP ₅ monolayer.(The 7th International Congress on Nanoscience)	conference

Memberships

2017-2019	The Physics society of Iran
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Activites

2017-2020	Volunteer Librarian; Faculty of Physics
2020	Teaching assistant; Fundamentals of Physics II
2019	Executive director at Yaldā's night; Faculty of Physics
2018	Teaching assistant; Analytical Physics course
2018	Running online education system; Crystallography courses
2017	Multi computers clustering
2016	Running library management system(KOHA); Faculty of Physics

Experience

2020	Physics School 25th Physics School at The institute for advanced studies in basic sciences	IASBS
2018	Workshop 2nd 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	Presention The first startup weekend in Karaj	Startup weekend

[†] Germany grading scale: Modified Bavarian formula