

Irfanullah Ahmadzai

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[LinkedIn](#)

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I am currently an M.Sc. student of condensed matter Physics at the **Institute for Advanced Studies in Basic Sciences (IASBS)**. I am working on optimization of multilayer perovskite solar cell through experimental and simulation studies. I expect to graduate up to the end of 2024.

Education

M.Sc. Condensed Matter, Thesis: optimization of multilayer perovskite solar cell through experimental and simulation studies, IASBS, Iran.
In progress
2022 - GPA: 16.60 out of 20 or 3.32 out of 4

B.Sc. General Physics, Kabul University, Afghanistan
2015-2019 GPA: 2.80 out of 4

Awards & Honors

Institute for Advanced Studies in Basic Sciences
2022 Master's degree scholarship

Language

Native: Dari and Pashto, **Fluent:** English, **Fluent:** Hindi, **Fluent:** Urdu
Elementary: Arabic

Selected Talks

2024 *Optimization of multilayer perovskite solar cells through experimental and simulation studies, [Slides](#).*

Presentation in Afghan Physics students conference 2024, ICTP

2019 *Optical fiber and its Usage in Medical and Military*
B.Sc. defence Presentation, slides

Selected Participation

- 10-11 Sept. 2024** *Afghan Physics Students Conference 2024*
PWF Afghanistan, ICTP
- 21-24 April. 2019** *School on Theoretical and Experimental Concepts in High Energy Physics*
PWF Afghanistan, ICTP, Kabul University, Afghanistan.

Teaching & Experience

- Meetings Manager** *Research Group* of Dr. Davood Abbaszadeh
2023- 2024 IASBS, Iran
- Medical Physics & Biophysics** Teacher at Department of Curative Medicine
2021- 2022 *Bayazid Rokhan Institute of Higher Education*, Afghanistan

Interests

- Cricket** I was a main player of Physics faculty's cricket team, Kabul university.
- Calligraphy** I have a good handwriting of Persian, Pashto and English writings.
- Painting** During my school time most of the students knew me by my paintings.

Skills

Technical

- C/C++ (good knowledge)
- Pascal (experienced)
- Origin (good knowledge)
- Windows (good knowledge)
- Linux (experienced)
- LaTeX (good knowledge)
- VBA (good knowledge)

Soft skills

- Communication
- Leadership
- Teamworking
- Time management

Publications

- [1]** Mohammadi, Shahriar; Abbaszadeh, Davood; Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS), *Increasing the rate of electron extraction using platinum quantum dots in the electron transfer layer in perovskite solar cells.*
- Conference paper**
2024

References

Dr. Davood Abbaszadeh, Institute for Advanced Studies in Basic Sciences (IASBS)
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Dr Faiz Rahman, AG Kroeninger, Faculty of Physics TU Dortmund,
E-mail: faiz.ishaqzai@tu-dortmund.de