

Kamal Heidary

Curriculum Vitae

the Institute for Advanced Studies in Basic Sciences (IASBS)
Zanjan, Iran
☎ +98 (915) 063 2443
✉ kamal.heidary96@gmail.com



Personal Information

Date of Birth 31 Aug 1996

Nationality Iranian

Short Biography Hardworking graduated student at the Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran. I am specializing in Optics. I am eager to learn.

Website iasbs.ac.ir/~kamal.heidary

Research Interests

- Optical Microscopy
- Digital Image Processing
- Optical Simulation
- Optical Design
- Optical Coherence Tomography
- 3D Optical Imaging for Biological Purpose

Educations

2019–2022 **M.Sc.**, *Department of Physics*, Master of Physics, Optics, the Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran.

Title of my thesis: "Design and Fabrication of Optical Coherence Tomography Based on Optical Fibers"

2014–2019 **B.Sc.**, *Bachelor of Optics Engineering, Optoelectronics*, University Complex of Applied sciences, Malek-Ashtar University of Technology (MUT), Isfahan, Iran.

Title of my project: "Simulation and Monitoring Temperature for Power Cables with Distributed Temperature Sensing (DTS)"

Experience

Recherche Assistant

- Research Assistant at the IASBS (May-Aug 2022)

Teaching Experience

- Teaching Physics of Lasers for Bachelor Students (42 h-Spring 2021)
- Short Course of Zemax (20 h- Winter 2020)
- Short Course of Python (10 h- fall 2020)

Languages skill

English Upper Intermediate

Persian Native

Computer Skills

Software	Zemax	Microsoft Office
Programming	MATLAB	Latex
Languages	Labview	Python(Numpy, Matplotlib, Pandas, Scipy, OpenCV, Qt, tkinter)

Advanced Courses Passed

- Numerical Methods in Optics (2020)
- Biophotonics (2020)
- 3D Optical Imaging Methods (2020)
- Digital Image Processing (2018)
- Optical Design (2018)

Honors

- Best Presentation Award (Second Place) at the 3rd International Conference on Light and Light-Based Technologies (3rd ICLLT- 25-27 May 2022).,

Publication & Presentation

Simulation of optical coherence tomography in MATLAB by using angular spectrum propagation and Fresnel equations for multilayer samples, Heidary K, Ebrahimzadeh A., A. Akhlaghi E., Conference presentation, 3rd International Conference on Light and Light-Based Technologies (3rd ICLLT-2022). .

Simultaneous thickness and group index measurement of multilayer thin films with Spectral-Domain Optical Coherence Tomography, Omid P., Ebrahimzadeh A. ,Heidary K., A. Akhlaghi E., Conference presentation, 3rd International Conference on Light and Light-Based Technologies (3rd ICLLT-2022). .

References

Dr. Ehsan Ahadi Akhlaghi, Department of Physics, Institute for Advanced Studies in Basic Sciences (IASBS) .
e.a.akhlaghi@iasbs.ac.ir

Last Update Nov 2022