

# Curriculum Vitae

## Khatereh Jafari

### Introduction:

I am Khatereh Jafari Ph. D. candidate of physics at Sharif University of Technology, Tehran, Iran. I have started my Ph. D. education since 2016. My current research interests include "Quantum information", "Light propagation and localization in optical waveguide lattices" and "Optomechanical systems".

### Personal Information

**First Name:** Khatereh **Last Name:** Jafari Ghahfarokhi **Gender:**Female **Date of Birth:** 4/11/1985 **Location:** Tehran, Iran

**Nationality:** Iranian **Email:** [jafari831@Gmail.com](mailto:jafari831@Gmail.com) , [khatereh.jafari@physics.sharif.edu](mailto:khatereh.jafari@physics.sharif.edu)

**Homepage:** <http://physics.sharif.ir/~khatereh.jafari>

### Current Position(s):

- **Ph. D. student of Physics, Sharif University of Technology, Tehran, Iran.**

### Educations

#### Ph.D. Student (Started 2016, Current)

Sharif University of Technology, Tehran, Iran

Ph.D. in Physics, 2016-Current, **Current GPA:** (18.74/20)

**Research Field:** Quantum Information

**Supervisor:** Prof. Ali Reza Bahrampour

#### M.Sc. (2007, Finished 2010)

Sharif University of Technology, Tehran, Iran

M.Sc. in Physics, 2007-2010, **Total GPA:** (17.99/20)

**Research Field:** Plasma Wakefield Accelerators

**Thesis Title:** Behavior Study of Plasma Wakefield Accelerators

**Thesis Grade:** (19.5/20)

**Supervisor:** Prof. Hassan Mehdian, **Advisor:** Dr. Saeed Setayeshi

#### B.Sc. (Started 2003, Finished at 2007)

Sharif University of Technology, Tehran, Iran

B.Sc. in Physics, 2000-2000, **Total GPA:** (16.71 / 20)

### Scientific Activities

- Participating at the "Advanced Workshop on Nonlinear Photonics, Disorder and Wave Turbulence" in Trieste, Italy (15-19 July 2013).

## Presentations

- Plasma Based Wakefield Accelerator (Kharazmi University, Tehran, Iran) (2009)

## Publications

### Journal:

- "Impact of loss on the wave dynamics in photonic waveguide lattices" , M. Golshani, S. Weimann, **Kh. Jafari**, M. Khazaei Nezhad, A. Langari, A. R. Bahrapour, T. Eichelkraut, S. M. Mahdavi, A. Szameit, Phys. Rev. Lett. 113, 123903 (2014).

### International Conference:

- "Impact of higher-order coupling on Bloch oscillations in optical waveguide arrays", M. Golshani, **Kh. Jafari**, M. Khazaei Nezhad, A. R. Bahrapour, A. Langari and S. M. Mahdavi, Winter College on Optics: "Fundamentals of Photonics - Theory, Devices and Applications", ICTP, Trieste, Italy (Feb. 2014).

### National Conference:

- "Direction of the Friction-Force", Ezzatollah Rezaei, **Kh. Jafari**, M. Golshani, 18th Iranian Conference on Physics Education, Tabriz, Iran (September 2017).
- "Impact of second-order coupling on light localization in quasiperiodic Aubry-Andre lattice", **Kh. Jafari**, M. Golshani, M. Khazaei Nezhad, 23<sup>rd</sup> IPM Physics Spring Conference, Institute for Research in Fundamental Sciences(IPM), Tehran, Iran (May 2016).
- "Dynamic localization in modulated binary array of optical waveguides", **Kh. Jafari**, M. Golshani, M. Khazaei Nezhad, Annual Physics Conference of Iran, Ferdowsi University of Mashhad, Mashhad, Iran (August 2015).
- "The effect of higher-order coupling on Bloch oscillations in optical waveguide arrays", M. Golshani, **Kh. Jafari**, M. Khazaei Nezhad, A. R. Bahrapour, A. Langari and S. M. Mahdavi, The 20<sup>th</sup> Iranian Conference on Optics and Photonics and The 6<sup>th</sup> Iranian Conference on Photonics Engineering and Technology, Shiraz, Iran (Jan. 2014).
- "Transverse localization in 1D array of optical waveguides with diagonal correlated disorder", **Kh. Jafari**, M. Golshani, M. Khazaei Nezhad, A. Langari, A. R. Bahrapour, and S. M. Mahdavi, The 20<sup>th</sup> Iranian Conference on Optics and Photonics and The 6<sup>th</sup> Iranian Conference on Photonics Engineering and Technology, Shiraz, Iran (Jan. 2014).

## Teaching Experiences

- **Teaching Assistant** in the course of General Physics 2 Laboratory, Department of physics, Sharif University of Technology, Tehran, Iran (2016 - 2018).
- **Teaching** of Physics at High School, Ardal, Chaharmahal and Bakhtiari Province, Iran (2007 - 2014)
- **Teaching** of Physics at High School, Kerman, Kerman Province, Iran (2014 - 2016)

## Computer Skills

**Scientific Software Tools:** MATLAB, Mathematica, ICDL skills

## Languages

**Persian** Native

**English** Intermediate

## **Honors and Awards:**

- Gifted student award ranked 1st (among Plasma Physics Students) in M.Sc., Kharazmi University, Tehran, Iran (2010).
- Selected (among all of the students in Iran) in the first stage of 20th Students Olympiad in Mathematics, Iran (2002).

## **References**

• Professor Ali Reza Bahrapour, Sharif University of Technology, Department of Physics, Tehran, Iran,

Email: [bahrapour@sharif.edu](mailto:bahrapour@sharif.edu)

• Professor Hassan Mehdian, Kharazmi University, Faculty of Science, Physics Department, Tehran, Iran.

Email: [mehdian@tmu.ac.ir](mailto:mehdian@tmu.ac.ir)

• Dr. Mojtaba Golshani, Shahid Bahonar University of Kerman, Kerman, Iran.

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