

# Curriculum Vitae

## Mahdi Shokhmkar

**My researches and interests are mostly related to structured light. Now, I am Ph.D. student at sharif university of technology. I'm studying physics with my advisor, Dr. Ali Reza Bahrampour.**

**The field of my research is Quantum communication and Quantum computation , which mainly focuses on working with structure light.**

### Personal Information

**First Name:** mahdi    **Last Name:** shokhmkar    **Gender:** Male    **Date of Birth:** 1996/08/05

**Location:** Tehran, Iran

**Nationality:** Iranian    **Email:** mahdi.shokhmkar@Gmail.com

### Current Position(s):

➤ **Ph.D.Student**

### Educations

#### **Ph.D. Student (Started 22/09/2021)**

**Sharif University of Technology, Tehran, Iran**

**Ph.D. in Physics, 2020-2021, Total (Current) GPA: (--/20)**

**Research Field:** Structure light & Quantum communication

**Thesis Title:** -

**Supervisor:** Dr. A.R. Bahrampour

#### **M.Sc. (Started 23/09/2018, Finished 21/09/2020)**

**Sharif University of Technology, Tehran, Iran**

**M.Sc. in Physics, 2018-2020, Total (Current) GPA: (18.72/20)**

**Research Field:** Quantum communication & Quantum computation

**Thesis Title:** Turn of geometrical phase to topological phase in gaussian structured light.

**Thesis Grade:** -

**Supervisor:** Dr. A.R. Bahrampour

#### **B.Sc. (Started 23/09/2014, Finished at 01/06/2018)**

**Shahid Bahonar University, Kerman, Iran**

**B.Sc. in Physics, 2014-2018, Total GPA: (18.47/ 20)**

**Research Field:** Atomic Physics

**Project Title:** Schwarzschild geodesics

**Project Grade:** (20/20)

**Supervisor:** Dr. Mohamad Reza Mehdi Zadeh

## Teaching Experiences

Example:

- **Teaching Assistant** in the course of **General Physics 1**  
Physics Dept., Sharif University of Technology, Fall 2018 & Fall 2019
- **Teaching Assistant** in the course of **General Physics 4**  
Physics Dept., Sharif University of Technology, winter 2018 & Summer 2019
- **Teaching Assistant** in the course of **General Physics 2**  
Physics Dept., Sharif University of Technology, winter 2019 & Summer 2020
- **Teaching Assistant** in the course of **Quantum mechanics 1**  
Physics Dept., Sharif University of Technology, winter 2019 & Summer 2020
- **Teaching Assistant** in the course of **General Physics 2**  
Physics Dept., Sharif University of Technology, winter 2021 & Summer 2022

## Computer Skills

**Scientific Software Tools:** MATLAB, Maple

**Programming Languages:** C++

## Languages

**Persian** Native

**English** Fair

**Arabic** Fair

## References

- Dr. A.R. Bahrapour, Professor, Sharif Uni. of Tech., [Bahrapour@sharif.edu](mailto:Bahrapour@sharif.edu)