# NAVID KAZEMI SERESHT

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## OBJECTIVE

I'm passionate and fascinated by everything about quantum entanglement. I have two main objectives, one is to try to find the reason behind this Spectacular Phenomena and two is using it in quantum computing and other quantum technologies. Interested in team working specially for the projects among quantum information.

## EDUCATION

**Master of Science in Particle Physics** Sep 2019 - Present
Department of Physics, Tehran.
University of Tehran, GPA: 17.97/20.00(3.73/4)

**Bachelor of Science in Atomic and Molecule Physics** Sep 2015 - July 2019
Department of Physics, Tehran.
Kharazmi University , GPA: 16.34/20.00

## SKILLS AND INTERESTS

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| **Skills** | qiskit, Ads/CFT, Optics lab, Electronics lab |
| **Interests** | Quantum Entanglement, Quantum Computing, Quantum Information Theory |
| **Computer Skills** | Mathematica, Python, Nodejs, Origin, HTML, CSS |
| **Sports** | Greco-roman Wrestling, Basketball |
| **Art** | Classical Guitar |

## PROJECTS

**Quantum Information Exchange And Quantum Complexity By Holographic Principle** Feb 2021 - Present
*Master Thesis, University of Tehran*

· Studying Quantum Information Exchange growth in d-dimensional CFT at finite
· temperature, Which is dual to Ads black hole by Ads/CFT, in ground state and
· excited state and check the results by quantum complexity. .

**Holographic Chiral Magnetic effect and Non- Equilibrium Critical Phenomena** July 2019 - Sep 2021
*Paper*

· We found phase transition in a system with chiral magnetic effect via AdS/CFT
· correspondence.We explore the non-equilibrium critical behaviour of chiral
· magnetic effect from holgraphic probe branes. This project is still continuing with collaboration with Dr.Vahedi and Mobin Shakeri.

**Ultraviolet–visible spectroscopy** Sep2018 - Nov2018
*Class project, University of Kharazmi*

· I studied and reviewed different aspects of Ultraviolet–visible spectroscopy and its
· application in various fields. My supervisor was Dr.Salmani.

**High pass filters in electric circuits** Sep2017 - Nov2017
*Class project, University of Kharazmi*

· I investigated the high pass filters and the role of transistors in them and their
· application in electric circuits. My supervisor was Dr.Bahar

## HONORS AND REWARDS

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|---|---|
| 85 rank in nationwide M.Sc. entrance exam | July 2019 |
| In Top 4 Particle Physics students in university of Tehran | Sep 2021 |
| In Top 6 Atomic Physics students in Kharazmi University | July 2015 |
| Full Scholarship for M.Sc. in Particle Physics at University of Tehran | July 2019 |
| Silver Medal in Greco-Roman style wrestling in competition between universities of Teharn | Feb 2018 |
| Full Scholarship for B.Sc in Atomic and Molecule physics at kharazmi university | July 2015 |

## LANGUAGES

English- TOEFL: 92(25 Sep 2021)- A new test will be participated at Nov 2021

Persian- Native

## WORKSHOPS AND SEMINARS

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|---|---|
| Quantum Information Theory and Holographic Principle Workshop, IPM | Feb 2021 |
| Quantum Information Science Seminar, Sharif University of Technology | Sep-2018 |
| qubit by qubit Quantum computation Workshop | Sep 2020 |

## TEACHING EXPERIENCE

1- Statistical mechanics. University of Tehran - fall 2021

2- Physics 1. Kharazmi University - fall 2018

## MASTER COURSES

Quantum Mechanics 1 (17.5/20) —— Quantum Mechanics 2 (18/20)

Statistical Mechanics (19.75/20) —— Quantum Field Theory 1 (17.62/20)

Quantum Field Theory 2 (20/20) —— Advance Classical Mechanics(19/20)

## REFERENCES

1- Dr.Vahedi - Email = vahedi@khu.ac.ir

2- Dr.Ebrahim - Email = hebrahim@ut.ac.ir

2- Dr.Salmani - Email = salmani@khu.ac.ir