

Shahrzad Zare

Mailing address: Department of Physics, Sharif University of Technology, Tehran, Iran

Phone: 00989375711873

Email address: shahrzad73z@gmail.com

Education:

- 2013-2018: SHARIF UNIVERSITY OF TECHNOLOGY, Tehran, Iran
Bachelor of Science in Physics
Current GPA: 18.59/20, Class Rank: 4/57
- 2009-2013: Farzanegan High School (National Organization for Development of Exceptional Talents), Shiraz, Iran
Diploma in Mathematics and Physics Discipline
GPA: 19.72/20

Research and Teaching Experiences:

- 2016-2018: Soft Matter Group, SHARIF UNIVERSITY OF TECHNOLOGY
) Modeling the dynamics of cells
) Analyzing Defective Viruses
 Programming by objective C/C++, under the supervision of Dr. Reza Ejtedadi
- 2015-2017: Department of Physics, SHARIF UNIVERSITY OF TECHNOLOGY
Teaching Assistant
- | | |
|----------------------------|---|
| Summer and Fall 2017: | Acoustics Lab, Dr. Ahmad Amjadi |
| Fall 2017: | Analysis Mechanics 1, Dr. Saman Moghimi |
| Fall 2016 and Winter 2017: | Analysis Mechanics 1 and 2, Dr. Naimeh Naseri |
| Fall 2015: | New Physics Lab, Dr. Omid Akhavan |
| Summer 2015: | New Physics Lab, Dr. Naimeh Naseri |

Research Interests:

-) Biophysics
-) Complex Systems
-) Computational Physics
-) Non-linear Dynamics and Chaos
-) Quantum Information
-) Network Science
-) Ecosystems

Graduate Courses:

-) Computational Physics
-) Neuroscience
-) Quantum Computation
-) Introduction to Quantum Field Theory
-) Astrophysics
-) Electro-Acoustics

) Introduction to the Philosophy of Science (Department of Philosophy of science)

Other Academic Activities:

- 2014-2018: Department of Physics, SHARIF UNIVERSITY OF TECHNOLOGY
) 2017-2018: Administrative secretary, Student's Scientific Association
) 2014-2017: Organizer of scientific groups such as Computational science, studying historical aspects of Quantum Mechanics, and reading about scientific works and life of Nobel laureates in Physics
- 2014-2017: Department of Physics, SHARIF UNIVERSITY OF TECHNOLOGY
) One of the managers of the official journal of Physics Department ("Takane")
- 2014-2017: Music Association, SHARIF UNIVERSITY OF TECHNOLOGY
) 2015-2017: Financial manager, Music Association
) 2014-2017: Student staff member of three music festivals
) 2014-2016: Performed in the classical chamber orchestra
- 2017: SHARIF UNIVERSITY OF TECHNOLOGY
10th International Conference on Magnetic and Superconducting Materials (MSM17)
) Head of student staff of the Local Organizing Committee

Participations:

- 2017: International Centre for Theoretical Physics, Spring 2017
) Spring College on the Physics of Complex Systems
- 2016: Institute for Research in Fundamental Sciences, Tehran, Sep. 17-18 2016
) Advanced School in Condensed Matter Physics: Many-body Localization
- 2014: Sharif University of Technology, Feb. 7-8, 2014
) 4th National Conference on Advances in Superconductivity (NCAS4)

OTHER PERSONAL INTERESTS:

-) Playing violin
) Writing
) Cinema
) Reading
) Photography
) Painting