Narguess Alizade

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No. 15, Koohsar 3rd St, Alborz Ave., Simon Blvd., Tehran, Iran



Physics BSc. Student at Department of Physics, Shahid Beheshti University (SBU), Tehran, Iran

Education

2018 - 2022 Bachelor of Physics, Shahid Beheshti University (SBU), Tehran, Iran

Statistical Mechanics II(4/4) - Solid State Physics Lab(4/4) - Biophysics(4/4), Complex Systems(4/4)

2012 - 2018 Diploma of Mathematics, National Organization for Development of Exceptional Talents (Sampad), Sari, Iran

Publications

> Published: Narges Alizade, Aria Bozorgmehr, "A New Approach to the Equations of Free Fall Motion", Published Online on "Fundamental Journal of Mathematical Physics", 2016.

Research interests: Biophysics - Soft Condensed Matter - Data Science - Machine Learning - Evolution

</> Selected Projects

Breast Cancer Diagnosis, CNNs, Thermal Image, May 2022 -

- > Supervisor: Dr. Samaneh Shojaeilangari, Iranian Research Organization for Science and Technology
- > Analysis of breast thermal images using Deep Learning
- > Classification and prediction of healthy or sick

Cancer | Image Analysis | Deep Learning

Jul – Dec 2021

Cell Mechanical Features and Metastasis, Python, ML,

- > Supervisor: Dr. A. Allahverdi, Tarbiat Modares University, Tehran Iran
- > Analysis of fluorescent images of cells to extract mechanical features
- > Identify metastatic cells using extracted mechanical features

CellMechanics Metastasis DeepLearning ImageAnalysis

Oct - Dec 2020 | Ising Model, Statistical Mechanics, Python,

- > Supervisor: Prof. G. R. Jafari, Shahid Beheshti University, Tehran Iran
- > Simulation of Ising model for a 2-D Lattice

Statistical Mechanics Python NumPy Matplotlib

Skills

Programming & Computer:

- > Python (NumPy, Matplotlib, Pandas, SciPy, OS, NetworkX) > LTFX(Intermediate)
- > Machine Learning (TensorFlow, Keras) > Gephi (Elementary)
- > Matlab (Intermediate)
- > Mathematica (Elementary) > Bash Scripting (Intermediate)

Languages:

- > English (Fluent)
- > Arabic (Intermediate)
- > Persian (Native)

- > French (Intermediate)
- > German (Novice)
- > Latin (Novice)

Q Teaching Experiences

Feb 2022 - Present **Solid State Physics I (TA)**, Dr. T. VazifehShenas, Department of Physics, SBU.

> Oct 2021 School for Statistical Analysis of Cosmic Fields (Coding Sessions TA), Department of Phy-

> > sics. SBU.

Fall of 2020 **General Physics I (TA)**, Dr. A. Sadeghi, Department of Physics, SBU. Winter of 2020 General Physics II (TA), Dr. A. Sadeghi, Department of Physics, SBU.

Jul2018 - present High School Physics and Mathematics Teacher, Self Employment and Farzanegan High-

School, Sari, Iran

Honors & Awards

2019-2021 Appreciated by the Presidents of SBU Physics Department (Dr. Riazi and Dr. Sadeghi) for Volunteer Activities.

Received a full BSc. Program Scholarship from Shahid Beheshti University (SBU), Tehran, Iran Fall of 2018

Fall of 2018 Ranked in top 0.2% Nationwide University Entrance Examination. Ranked 448 among 300000 participants.

Fall of 2017 The 4th-place winner in The Khwarizmi Festival For a Project in Mechanics Division. Young Scholars Club.

Attendance & Workshops

Apr-May 2022 **Computation in Complex Systems**, Cris Moore, Santa Fe Institute

Finding Hidden Messages in DNA (Bioinformatics I), Coursera, Pavel Pevzner, University of California-Feb-Mar 2022

San Diego

Feb 2022 Iranian Conference on Bioinformatics, Kish Island, Iran

Dec 2021 ICTP-ICTS Winter School On Quantitative Systems Biology, ICTS

Sep 2021 Three-Day School of Introduction to CERN Activities, Isfahan University of Technology, Tehran, Iran

Biophysics (University Course), Mohammad Reza Ejtehadi, Sharif University of Technology, Aug – Oct 2021

Tehran, Iran

Oct 2021 The Annual Physics Conference of Iran, Physics Society of Iran (PSI), Isfahan University of Technology

Sep 2021 Sociophysics School, Sharif University of Technology, Tehran, Iran

Spring School for Advanced Python and Machine Learning, Department of Physics, SBU Apr – Jun 2021

Jul - Sep 2020 **Introduction to Biological Evolution** (Summer school), Maryam Sadraie, Sharif University of Technology,

Tehran, Iran

Community & Volunteer Activities

May 2022 Complex Networks Workshop

Executive Committee Member

Sep - Nov 2021 Two Days With Particle Physics Workshop

Executive Committee Member

2018 - 2021 Scientific Association of Physics Students, SBU

Organizing events like seminars, workshops, students activities, promotional programs, etc.

Responsibilities:

> Secretary of The Association, 2019-2021

2018 - 2021 Physics Café, Weekly Gatherings

> A scientific gathering program in the physics department, SBU which professors and students could speak and discuss scientific topics. I was one of the originators and organizers.

2018 - 2019 **Physics Day**, Annual open-day program of physics department, SBU.

One of the outreach programs of the department that students was leading and operating that. I was in

the organizer team for two years before pandemic.

Hobbies

- > Travelling & Hiking
- > Theater and Acting.
- > Reading Novels, Poems and Philosophy.
- > Cycling



Prof. Reza Jafari

Profssor, Department of Physics, Shahid Beheshti University, Tehran, Iran

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Prof. Dr. Taraneh Vazifehshenas

Associate Professor, Physics Department, SBU, Tehran, Iran

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Prof. Dr. Shehu Abdussalam

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Dr. Abdollah Allahverdi

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(last update: Jul 2022)