

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
Selected Courses : Statistical Mechanics - Solid State Physics - Quantum Mechanics
- 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 - Machine Learning - Evolution

Selected Projects

- Jul 2021–present | **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) | > \LaTeX (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) |

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 Physics, 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.**
Fall of 2018 **Received a full BSc. Program Scholarship from Shahid Beheshti University(SBU)** , Tehran, Iran
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
Feb-Mar 2022 **Finding Hidden Messages in DNA (Bioinformatics I)**, Coursera, Pavel Pevzner, University of California-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
Aug – Oct 2021 **Biophysics** (University Course), Mohammad Reza Ejtehadi , Sharif University of Technology, 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
Apr – Jun 2021 **Spring School for Advanced Python and Machine Learning** , Department of Physics, SBU
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

References

Prof. Dr. Taraneh Vazifehshenas

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Prof. Dr. Shehu Abdussalam

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Dr. Abdollah Allahverdi

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