

# AZERBAIJAN STATE AGRARIAN UNIVERSITY

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Faculty: Engineering

Department: Physics and Mathematics



## **Education, academic degrees and scientific titles**

In 1983 she graduated from the Faculty of Mechanics and Mathematics of the Azerbaijan State University (BSU).

Since 2009, senior lecturer at the Department of Physics and Mathematics, ASAU.

Since 2014 he has been working on a dissertation entitled " Global solution of initial boundary value problems for Fitz Hugh Nagumo-type equations"

## **WORKING ACTIVITY**

From 1984 to 2001. - Senior Laboratory Assistant, Department of Physics and Mathematics, ASAU

from 2001 to 2009. - Assistant, Department of Physics and Mathematics, ASAU

since 2009 - Senior Lecturer. Department of Physics and Mathematics, ASAU

I read lectures and conduct seminars on "Mathematics", "Linear Algebra and Mathematical Analysis"

Author of 35 articles, 21 programs, 3 textbook

## **RESEARCH AREA**

Application of physics and mathematics in mechanization and electrification of agricultural production

## **Participation in international seminars, symposia and conferences.**

1. IV All-Ukrainian scientific and practical conference on November 27, 2019  
"Energy efficiency; science, technology, application " Kiev 2019
2. Fundamental problems of mathematics and the application of intelligent technologies in education Republican scientific conference (July 3-4, 2020)  
Sumgait 2020
3. II International Scientific Conference on Humanities and Social Sciences  
Azerbaijan Scientific Center December 18, 2020
4. International Scientific-Practical Conference "Safe İntotelekkommunikation Systems:from theory to practice" December 8-10, 2021 AZTU, Baku, Azerbaijan

## **Articles and scientific works**

- 1.G.N.Aliyeva. VK Kalantarov "Structural stability for the Fitz-Hugh-Nagumo equations" [www.science.gov.az](http://www.science.gov.az) Applied and Computational Mathematics. Volume10. № 2. 2011 pp. 289-293
2. G.N.Aliyeva "An inverse boundary value problem for a second order parabolic equation with general boundary conditions" Technologies and methods in education Scientific and technical journal 2011 No. 1 Voronezh 2011 pp. 3-9
- 3.G.N. Aliyeva. G.U. Agaev. G.M. Makhmudova "Application of differential equations in biology, medicine and mechanics." Scientific works of ASAU Ganja 2017, №4.
4. Textbook G.N.Aliyeva, "Ordinary differential equations and series" Ganja 2017 102 pages
5. G.N.Aliyeva. R.U.Orujova "Practical application of Fourier series in electrical engineering" Ganja Regional Scientific Center. Bulletin No. 1 (75) 2019.
6. G. N. Aliyeva, Sh. S. Huseynzade "Approach to the development of a fuzzy model of a pumping unit control system based on Petri nets" of the IV All-Ukrainian Scientific and Practical Conference on November 27, 2019 "Energy Efficiency; science, technology, application " Kiev 2019 pp. 18-22
- 7.G.N.Aliyeva "The role of differential equations in economics" Proceedings of the Republican Scientific Conference (3-4 July 2020) Sumgait 2020 pp 86-87

8. G.N.Aliyeva, R.U.Orujova "The Great Physician of the East Ibn Sina" Materials of the II International Scientific Conference on the Humanities and Social Sciences December 18, 2020 pp. 72-74
9. Textbook R.U. Orujova, G.N.Aliyeva ,”A collection of examples and problems on linear algebra, analytical geometry and mathematical analysis” Baku 2021 ,412 pages
- 10, G.N.Aliyeva, R.A.Amirova, G.F.Babanli “A method for evaluating the functional reliability of a single system.” Materials of the II International Scientific Conference “Safe İntotelekkommunikation Systems: from theory to practice” December 8-10, 2021 AZTU, Baku, Azerbaijan
11. Silybum, dandelion plants and their benefits. N 2021 Nature and science page 4. "SkyE" Baku 2021
12. G.N.Aliyeva «DECAY OF SOLUTIONS OF DAMPED KIRCHHOFF AND BEAM EQUATIONS.» İmpact. 2022 TWMS V.13, N.1, 2022, pp.119-128 Turkic World Mathematical Society
13. Textbook R.U. Orujova,Q.M.Aslanov, G.N.Aliyeva «Applied Mathematics» Baku 2023 ,355 pages
14. G.N.Aliyeva «STABILIZATION OF HYPERBOLIC FITZHUGH-NAGUMO EQUATIONS WITH ONE INTERIOR FEEDBACK CONTROLLER» İmpact. 2023 TWMS App. and Eng. Math. V.13, N.4, 2023, Journal of Applied and Engineering Mathematics

## **Language skills**

Turkish: average

English: good

Russian: excellent

Others: weak