

## PERSONAL INFORMATION

## YESSENBAYEVA GULSIM AKHMADIEVNA



📍 Republic of Kazakhstan, Karaganda city, Universitetskaya street, 28, KarU named after academician E. A. Buketov



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| Date of birth: 12/08/1960

### PLACE OF WORK, POSITION

KarU named after academician E. A. Buketov, associate professor of the department of algebra, mathematical logic and geometry named after professor T. G. Mustafin

### SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Candidate of physical and mathematical sciences

### WORK EXPERIENCE

#### Place and date

- **1982-1984** - teacher of mathematics at the secondary school for working youth №24 in Karaganda
- **1984-1992** - lecturer of the Department of Differential Equations at the KSU named after E. A. Buketov
- **1992-2009** - senior lecturer of the Department of Differential Equations at the KSU named after E. A. Buketov
- **2009-2014** - docent of the Department of Mathematical Analysis and Differential Equations at the KSU named after E.A. Buketov
- **2014-2021** - docent of the Department of Algebra, Mathematical Logic and Geometry named after Professor T.G. Mustafin at the KarU named after academician E.A. Buketov
- **from September 2021 to the present** - associate professor of the Department of Algebra, Mathematical Logic and Geometry named after Professor T.G. Mustafin at the KarU named after academician E.A. Buketov

### EDUCATION AND PROFESSIONAL TRAINING

#### Education

- **1977-1982** - Leningrad State University named after A.A. Zhdanov, Faculty of Mathematics and Mechanics, specialty - "Mechanics", qualification - **mechanics**
- **2012-2014** - Karaganda State University named after Academician E. A. Buketov, specialty - 5B011900- "Foreign language: two foreign languages (English)", academic degree - **bachelor of education** (with honors)

## Professional trainings, Scientific trips

- **October 2013** - a scientific trip under the program "Enhancing Learning and Teaching in Higher Education" at Newcastle University (**Newcastle, Great Britain**);
- **May 2017** - participation in the international scientific symposium "Theory of functions, functional analysis and their applications" at the Kazakhstan branch of the Moscow State University named after M.V. Lomonosov (**Nur-Sultan, RK**);
- **July-August 2017** – a work trip to the "Jipka" school (Prague, Czech Republic).

## SKILLS DEVELOPMENT INFORMATION

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- Certificate confirming participation in the training seminar on the topic: **"Development of applied didactic materials and teaching methods in the conditions of credit and distance learning technologies"** (January 19, 2013, the certificate was issued by the KSU named after E.A. Buketov; Karaganda, Kazakhstan);
- Certificate of completion of the advanced training course for teachers of the Republic of Kazakhstan **under the advanced training program for university teachers of the Republic of Kazakhstan** (240 hours, language of instruction is English) (FAO " National Centre for Advanced Training "Orleu" Republican Institute for Advanced Training of senior and scientific-pedagogical workers of the education system of the Republic of Kazakhstan, date of completion and issuance of the certificate – November 1, 2013; Almaty, Kazakhstan);
- Certificate confirming participation in the international conference **"Promotion of democratic governance of educational institutions"**, held within the framework of the joint program of the Ministry of Education and Science of the Republic of Kazakhstan, the European Union and the Council of Europe **"Support for education policy in the field of education for democratic citizenship and human rights education in Kazakhstan"** (25-26 June 2014, issued by Ekaterina Dolgova-Dreyver, Head of the Bilateral and Regional Cooperation Section of the Education Department of the Council of Europe; Karaganda, Kazakhstan);
- Certificate confirming the **work of a teacher at the School of Improvement of Pedagogical Skills of the Educational and Methodological Center for the Development of Education of the Karaganda region** (June 16-26, 2015, issued by the director G. Kozhakhmetova; Karaganda, Kazakhstan);
- Certificate confirming participation in the British Council conference **"Approaches to Teaching Content through English: Content and Language Integrated Learning (CLIL)"** (March 2, 2016, issued by the Director of the English Language Service of the British Council, Nasser Ameri, Karaganda, Kazakhstan);
- Certificate of completion of the course on the topic: **"Preparing a university teacher for training with the use of distance educational technologies"** (September 9-14, 2019, certificate issued by by the KSU named after E.A. Buketov; Karaganda, Kazakhstan);
- Certificate confirming participation in a series of online seminars on the topic: **"New interface for Web of Science"** (webinar "Clarivate Web of Science", January 14-28, 2021, issued by specialists in information resources for scientific research Kurmakaeva V., Neighbor V., Tikhonkova I.)
- Certificate of participation in the webinar **"Diversity of searches in the Web of Science Core Collection"**, 19.10.2021
- Certificate of participation in the webinar **"Open Access Challenges"**, 26.10.2021
- Certificate of participation in the webinar **"Journals: good, bad and predatory"**, 28.10.2021
- Certificate of completion of the advanced training course **"Research of rheonomic materials with small deformations"** (36 hours), 22-27.11.2021
- Certificate of listening to the course of lectures **"Soil Mechanics"** (72 hours), 5.10.2021–23.12.2021

– Certificate of completion of the course "Introduction to the theory of algorithms" (72 hours), 28.03.2022-17.04.2022

## PERSONNEL QUALITIES

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**Native language** Russian

LANGUAGE	UNDERSTANDING		SPEAKING	WRITING
	Hearing	Reading	Oral speech	
<b>Kazakh</b>	base	base	base	base
<b>LANGUAGE CERTIFICATE: no</b>				
<b>English</b>	B2	B2	B2	B2
<b>LANGUAGE CERTIFICATE: no</b>				

### **Digital skills**

Advanced user: Microsoft Office (Word, Excel, Power Point). Knowledge of operating systems: Windows and IOS. Software complexes: Mathcad, Matlab, Maple.

### **Other skills (hobbies)**

Reading, drawing, playing the piano, guitar, amateur song, tourism

## ADDITIONAL INFORMATION

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## Main publications

1. Yessenbayeva G.A., Yesbayev A.N., Poppel H. On the inequality of different metrics for trigonometric polynomials // Bulletin of the Karaganda university. – 2019. - №1(93). – P. 102–107.
2. Yessenbayeva G.A., Yesbayeva D.N., Syzdykova N.K., Akpanov I.A. On the calculation of rectangular plates by the collocation method // Bulletin of the Karaganda university. – 2019. - №1(93). – P. 154–159.
3. Yessenbayeva G.A., Akpanov I.A., Abakasheva A.M. Mathematical modeling and mathematical methods in mechanics problems // Education and Science without Borders. – 2019. - № 19(1/2019). - P. 65–74.
4. Yessenbayeva G.A., Akhanov F.M., Makazhanova T.Kh. On the calculation of rectangular plates by the trigonometric series // Bulletin of the Karaganda university. – 2019. - №2(94). – P. 115–120.
5. Yessenbayeva G.A., Yesbayev A.N., Ramazanov M.I. Investigation of the model for the essentially loaded heat equation // Eurasian physical technical journal. - 2019. – Volume 16. - №1(31). – P. 113–120.
6. Yessenbayeva G.A., Yesbayeva D.N., Makazhanova T.Kh. On calculation methods for the model of plates bending // Eurasian physical technical journal. - 2019. – Volume 16. - №1(31). – P. 121–128.
7. Yessenbayeva G.A., Kasimov A.T., Kasimov B.A. On the calculation of round plates for bending // Bulletin of the Karaganda university. – 2019. - №3(95). – P. 120–127.
8. Yessenbayeva G.A., Yesbayeva D.N., Syzdykova N.K. On the finite element method for calculation of rectangular plates // Bulletin of the Karaganda university. – 2019. - №3(95). – P. 128–135.
9. Yessenbayeva G.A., Yesbayev A.N., Ramazanov M.I. On the kernel properties of the integral equation for the model with the essentially loaded heat equation // Eurasian physical technical journal. - 2019. – Volume 16. - №2(32). – P. 105–112.
10. Kasimov A. T., Zholmagambetov S. R., Yessenbayeva G. A., Kasimov B. A. Numerical modeling of the stress-strain state of three-layer plates based on the non-classical theory of bending // Proceedings of the University. – 2020. - №1(78). – P. 89-92.
11. Yessenbayeva G.A., Yessenbayeva Gulmira.A., Kasimov A.T., Syzdykova N.K. On the boundedness of the partial sums operator for the Fourier series in the function classes families associated with harmonic intervals // Bulletin of the Karaganda university. – 2021. - №3(103). – P. 131–139.
12. Kasimov A.T., Yessenbayeva G.A., Zholmagambetov S.R., Khabidolda O. Investigation of layered orthotropic structures based on one modified refined bending theory // Eurasian physical technical journal. - 2021. – Volume 18. - №4(38). – P. 37-44.

### **The number of published scientific and educational-methodical works - more than 135, of which:**

- in journals in Scopus database - **4**;
- in journals in the Clarivate Analytics database - **17**;
- in editions recommended by Committee for Control in the Sphere of Education and Science MES RK - 20;
- in publications in the RSCI database, including journals from the list of the Higher Attestation Commission, and international conferences - **33**;
- textbooks, teaching aids, methodical instructions, electronic textbooks (co-authored) - **28**.

Scopus h-index– 1.

Clarivate Analytics h-index - 1.

### Participation in the implementation of scientific projects

1. "Embeddings and interpolations of weighted spaces of differentiable functions, multipliers, integral operators in weighted spaces" (customer - Institute of Applied Mathematics, laboratory of differential equations; 2006-2007, position - engineer);
2. "External assessment of educational achievements in higher education organizations" (customer-RSE "National Testing Centre" of the Ministry of Education and Science of the Republic of Kazakhstan, 2012-2016, positions - expert and test developer);
3. "Appeals for admission to the master's program in the specialty "Mechanics"" (customer - MES RK, 2019, position - member of the appeal commission of MES RK);
4. "Assessment of tests of entrance examinations to magistracy" (customer - RSE "National Testing Centre" of the Ministry of Education and Science of the Republic of Kazakhstan, 2019-2020, position - expert).

### Membership in professional scientific organizations

- official reviewer of the journal "Bulletin of Karaganda University. Series Mathematics".

### Awards and titles

Gold medal winner

Winner of the jubilee medal "40 years of KarSU named after academician E. A. Buketov"

Winner of the title and medal "Honored Worker of Karaganda State University named after E. A. Buketov"

Winner of the award named after Doctor of Physical and Mathematical Sciences, Professor T.G. Mustafin to the best teachers of Karaganda State University named after E.A. Buketov for scientific achievements

### Courses

1. Mathematical analysis
2. Functional analysis
3. Complex analysis
4. Equations of mathematical physics
5. Integral equations
6. Differential geometry and topology
7. Calculus of variations
8. Differential equations
9. Applied and theoretical mechanics
10. Mechanics of liquid and gas
11. The theory of plates and shells
12. Fracture mechanics, basics and applications
13. Modeling the processes of solids deformation
14. Computer mechanics
15. Actual problems of classical mechanics
16. Professionally-oriented foreign language
17. Professional foreign terminology in mathematics
18. Professional foreign terminology in mechanics
19. Professional foreign terminology in computer science
20. Professional foreign terminology in the IT sphere
21. Academic writing

### Professional and scientific interests

- functional analysis, theory of functions, theory of approximations;  
- partial differential equations, loaded differential equations;  
- mechanics of deformable solids, theory of elasticity and plasticity;  
- English in the field of professional activity.

### SCIENTIFIC DATABASES IDENTIFIERS

**Researcher ID:** AAB-5181-2021

**ORCID ID:** <https://orcid.org/0000-0002-4668-7472>

**RSCI:**

**Author ID Scopus:** 57210187280

