**TEMIRKHANOVA
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Associate Professor of the
Department of Fundamental
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Professional experience:
- Since 2009 to present time. Associate professor of the Department of Fundamental Mathematics, Faculty of Mechanics and Mathematics, L.N. Gumilyov ENU.
-2006-2009. PhD student of the L.N. Gumilyov ENU.
- 2002-2005. Senior teacher of the Department of Biophysics and Informatics, Kazakh State Medical Academy;
- 2001-2002. Teacher of the Department of Mathematics, North Kazakhstan State University;
-1997-2001. Learning in North Kazakhstan State University (NKSU), Petropavl.

Scientific degree, title:
PhD in the subject Mathematics (2009), Astana, Kazakhstan. Speciality: 01.01.00-Mathematics;
PhD in the subject Mathematics (2015), Lulea University of Technology, Sweden.
Associate Professor (docent) № 0000158, 27.11.2020. (order № 483).

Scientific interests:
Functional analysis. Theory of linear operators. Problems of boundedness and compactness of the matrix and integral operators in functional spaces

Research Grants:
-*Leading Researcher in the project* «Weighted function spaces, weighted estimates of integral operators and their applications» grant funding (2018-2020);
- *Chief Researcher* in the project «Properties of matrix operators in weight sequences and their applications» grant funding (2015-2017);
-*Leading Researcher in the project* «The exact characteristics of integral operators in functional spaces and their applications» grant funding (2015-2017);
-*Leading Researcher in the project* «Qualitative and spectral characteristics of linear, quasi-linear differential and difference equations» grant funding (2013-2015);
-*Leading Researcher in the project* «Qualitative characteristics of singular integral and differential operators in classical and quantum analysis» grant funding (2012-2014);
- *Chief Researcher* in the project «Investigation of additive and multiplicative Hardy type inequalities» grant funding (2012-2014)
- *Junior Researcher* in the project «Weighted inequalities and their applications in the theory of weighted embedding of the integral and differential operators» (2009-2011).

Delivered courses:
Functional analysis (B). Ordinary differential equations (B). Theory of operators (B). Selected Chapters of Functional Analysis (B) Weighted inequalities of the Hardy type (M). Weighted estimates of matrix operators (D).

Publications:
1. A.M. Temirkhanova, A.T. Beszhanova, Boundedness and compactness of a certain class of matrix operators with variable limits of summation // Eurasian Mathematical Journal. –2020. –V. 11, № 3. –P. 66-75. (CiteScore (Scopus) – 0.8; процентиль-37);
2. A. Kalybay, R. Oinarov, A. Temirkhanova, Integral operators with two variable integration limits on the cone of monotone functions, Journal of Mathematical

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Awards:
- Based on the results of the 1st semester 2017-2018 academic year the winner of the Tokyo Boeki scholarship as the best doctoral student;
- Laureate of the State Youth Prize "Daryn" of the Government of the Republic of Kazakhstan (2014);
- Owner of the state scientific scholarship in 2020.
- The best teacher of the university-2020.

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Inequalities -2019 -V. 13, № 1 –С. 1-16, JCR Impact factor 0,849 Q2.

3. A. Kalybay, R. Oinarov, D. Karatayeva, A. Temirkhanova, Oscillation of a second order half-linear difference equation and the discrete Hardy inequality // Electronic Journal of Qualitative Theory of Differential Equations. –2017. № 43, 1-16. (Impact Factor JCR-2017 – 0,881).

4. А.А. Калыбай, Р. Ойнаров, А.М. Темирханова, Оценки интегральных операторов с переменными пределами для монотонных функций // Математический журнал. Алматы -2017–Т. 17, № 3. –С. 71-83.

5. A.O. Baiarystanov, L.-E. Persson, S. Shaimardan, A. Temirkhanova, Some new Hardy type inequalities in q-analysis // Journal of Mathematical Inequalities –2016. – Vol. 10, № 3. –P. 761-781. (Impact Factor SJR-2017 – 0,8).

6. A. Kalybay, L.-E. Persson, A. Temirkhanova, A new discrete Hardy-type inequality with kernels and monotone functions // Journal of Inequalities and Applications. – 2015. – Vol. 321. – P. 1-10. DOI 10.1186/s13660-015-0843-9 (Impact Factor JCR-2017 – 0,966).

7. A.A. Kalybay, R. Oinarov, A.M. Temirkhanova, Boundedness of n – multiple discrete Hardy operators with weights for $1 < q < p < \infty$ // Journal of Function Spaces and Applications, 2013, Article ID 121767, 9 pages. Impact Factor: 0,5

8. А.О. Байарыстанов, А.М. Темирханова, С.Шаймардан, Весовое неравенство Харди в квантовом анализе // Вестник КарГУ. –2013. –Т.70. – P. 35-45

9. Zh.A. Taspaganbetova, A.M. Temirkhanova, Criteria on boundedness of matrix operators in weighted spaces of sequences and their applications// Annals of Functional Analysis. – 2011. - V. 1. – P. 114-127

10. Zh.A. Taspaganbetova, A.M. Temirkhanova, Boundedness and compactness criteria of a certain class of matrix operators// Mathematical Journal. – Almaty, 2011. - V. 11. – P. 125-139.

11. R. Oinarov, L.-E. Persson, A.M. Temirkhanova, Weighted inequalities for a class of matrix operators: the case $p \le q$ // Mathematical Inequalities and Applications. – Croatia, 2009. – V. 11. - № 4. – P. 891-903. JCR IF-0.588.

12. R. Oinarov, A.M. Temirkhanova, Boundedness and compactness of a class of matrix operators in weighted sequence spaces // Journal of Mathematical Inequality. – Croatia, 2008. – V.2. - № 4. – P. 555-570. JCR IF-0.704

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