JUMABAYEVA AINUR

Associated professor of Department of Fundamental Mathematics of the mechanics and mathematics faculty, L.N. Gumilyov Eurasian National University.

Contact information:

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Education:

2003-2007 Kazakh National University. Al-Farabi, Almaty, Bachelor of Mathematics.

2007-2009 Kazakh National University. Al-Farabi, Almaty, Master of Mathematics.

2009-2012 Eurasian National University. L.N. Gumilyova, Doctors of Philosophy (PhD), specialty 6D060100-Mathematics, Astana.

2014-2018 Autonomous University of Barcelona (Barcelona, Spain), Doctors of Philosophy (PhD) with a degree in Mathematics,, Barcelona.

Academic career:

of Prof. N. Tleukhanov and professor S.Yu. Tikhonov

2012 - 2018 worked as a teacher at the Department of Fundamental Mathematics department L.N. Gumilyov Eurasian National University.

Since 2018 to present time associate professor of Department of Fundamental Mathematics L.N. Gumilyov Eurasian National University.

Scientific degree:
Doctor PhD, specialty: "6D060100-Mathematics"

Scientific interests:
Harmonic analysis, approximation theory, interpolation theory.

Scientific – research activities:
Take part in the following scientific projects which financed by Ministry of Education and Science of the RK:
2012 - 2014 - Researcher in the scientific project Geometric problems of Fourier multipliers and problems of recovery of multiplicative transformations", ENU named after L.N. Gumileva
2015–2017 - Researcher in the scientific project "Fourier Transforms, Fourier Multipliers and Their Applications", ENU named after L.N. Gumileva
2018 – 2020 - Senior Researcher in the research project "Optimal Methods for Compressing and Restoring Black and White 2D and 3D Images" Institute of Information and Computing Technologies, Almaty.

He has about 15 scientific article which main results are published in scientific journals, in materials of the international scientific conferences.

Publications (selected):

1. Джумабаева А.А., Тлеуханова Н.Т. Анизотропные классы множителей / Математический журнал.- Алматы, 2011. -№ 3-4. Том 11, (41, 42). -С. 30-36.

2. Джумабаева А.А., Тлеуханова Н.Т. О проблеме множителей в анизотропных пространствах Лоренца/ Вестник КарГУ. Серия «Математика». 2012.- №2 (66). -С. 98-104.

3. Jumabayeva A. Tleukhanova N., Smailov E. On spectral properties of the modified convolution operator/ Journal of Inequalities and Applications 2012, 146. -P. 1-15. Импакт фактор – 0,73.

4. Jumabayeva A. Liouville - Weyl derivatives, best approximations, and moduli of smoothness / Acta Math. Hungar. 2015. - Vol. 145, No. 22. - P. 369 - 391. Импакт фактор – 0,401

5. Jumabayeva A. Sharp Ul'yanov inequalities for generalized Liouville–Weyl derivatives / Analysis Math. 2017. -Vol. 43, № 2. -P. 279–302. Импакт фактор – 0,325

6. Jumabayeva A., Simonov B. Inequalities for moduli of smoothness of functions and their Liouville–Weyl derivatives / Acta Math. Hungar. 2018. - Vol. 156, No.1. - P. 1 -17. Импакт фактор – 0,44

7. Jumabayeva A. Simonov B. Liouville–Weyl Derivatives of Double Trigonometric Series / Topics in Classical and Modern Analysis. Applied and Numerical Harmonic Analysis. Birkhäuser, 2019. pp 159-182.

8. Джумабаева А.А. Симонов Б.В. Преобразование рядов Фурье с помощью обобщенно монотонных последовательностей / Математические заметки, 2020, Том 107 выпуск 5, стр. 674–692.