

CURRICULUM VITAE

<div data-bbox="381 127 625 432" data-label="Image"> </div> <p style="text-align: center;">AKSAULE ZHUBANYSHEVA</p> <p>– Head of the Department of Scientific Publications, docent of the Department of Fundamental Mathematics L.N. Gumilyov Eurasian National University</p> <p>–</p> <p>Contact information: e-mail: zhubanysheva_azh@enu.kz</p>	<p>Scientific degree: Ph.D, Speciality: 01.01.00- Mathematics.</p> <p>Scientific interests: -Construction of uniformly distributed Korobov grids: Approximate calculation of integrals. Implementation of algorithms for constructing a random number based on algebraic number theory. -Approximate calculation of functions and derivatives by exact and inexact information: Recovery of functions and derivatives of functions which belong to the multidimensional classes by exact and inexact information. Construction of optimal recovery and approximate differentiation computational aggregates. Implementation of computational experiments on the approximate calculation functions and derivatives..</p> <p>Taught courses: Mathematical Analysis, Theory of functions of a real variable, Probability theory and mathematical statistics, Total integration theory, Approximation theory in the context of the Computational (numerical) diameter.</p>
<p>Education: 01.09.2001-30.06.2005, Aktobe State Pedagogical Institute. <i>Speciality: teacher of mathematics.</i> 01.09.2005-30.06.2007, L.N. Gumilyov Eurasian National University. <i>Master of mathematics.</i> 01.09.2007-30.08.2010, L.N. Gumilyov Eurasian National University. <i>Ph.D, Speciality: 01.01.00- Mathematics.</i> <i>Scientific adviser: Doctor of physical and mathematical sciences, professor Nurlan Temirgaliyev. Foreign Scientific adviser: Professor of Friedrich-Schiller University, Hans-Jürgen Schmeisser</i></p> <p>Academic career: – From 28.10.2018 Head of The Department of Scientific Publications L.N. Gumilyov Eurasian National University – From 01.09.2012 to current time a senior researcher at the Institute of Theoretical Mathematics and Scientific Computation L. N. Gumilyov Eurasian National University. – From 01.09.2010 to current time a senior lecturer of the Fundamental mathematics department of L.N. Gumilyov Eurasian National University. 01.01.2006-25.05.2006 Teacher of mathematics, school №48 in Astana.</p>	<p>Publications (selected): <i>Temirgaliyev N., Bailov E.A., Zhubanysheva A. Zh.</i> General algorithm for the numerical integration of Periodic function of several variables // <i>Doklady Akademii Nauk</i>, 2007, pp. 681-685. <i>Zhubanysheva A. Zh., Temirgaliyev N., Temirgaliyev Zh. N.</i> Application of divisor theory to the construction of tables of optimal coefficients for quadrature formulas // <i>Computational mathematics and mathematical physics</i>, 2009, Vol. 49, No1, pp. 12-22. <i>Temirgaliyev N., Sh.K. Abikenova, A. Zh. Zhubanysheva, and G.E. Taugynbaeva</i> Discretization of Solutions to a Wave Equation, Numerical Differentiation, and Function Recovery with the Help of Computer (Computing) Diameter // <i>Russian Mathematics (Iz. VUZ)</i>. 2013. Vol. 57. No. 8. pp. 75–80. <i>Zhubanysheva A. Zh., Temirgaliyev N.</i> Informative Cardinality of Trigonometric Fourier Coefficients and Their Limiting Error in the Discretization of a Differentiation Operator in Multidimensional Sobolev Classes // <i>Computational mathematics and mathematical physics</i>, 2015, Vol. 55, No9, pp. 1432-1443. <i>Temirgaliyev N., Zhubanysheva A. Zh.</i> Order Estimates of the Norms of Derivatives of Functions with Zero Values on Linear Functionals and Their Applications // <i>Russian Mathematics</i>, 2017, Vol. 61, No. 3, pp. 77–82. <i>Temirgaliyev N., Zhubanysheva A. Zh.</i> Computational (Numerical) Diameter in a Context of General Theory of a Recovery // <i>Russian Mathematics</i>, 2019, Vol. 63, No. 1, pp. 79–85.</p>