## CURRICULUM VITAE

1. Full name: Astashkin Sergey Vladimirovich.
2. Birth date: 15 April 1956.
3. Place of birth: Kuibyshev, USSR.
4. Married: 9 October 1982, two children.
5. Education: Samara State University, Department of Mathematics and Mechanics, 1978; Voronezh State University, Department of Mathematics, post-graduate courses, 1982.
6. Academic Degrees: M. Sc. (Mathematics), Kuibyshev State University, Kuibyshev, USSR, 1978; Ph. D. (Mathematics), Voronezh State University, Voronezh, USSR, 1982; Doctor of Sciences, Institute of Mathematics of Russian Academy of Sciences, Ekaterinburgh, Russia, 1999.
7. PhD thesis title: The interpolation theory and operators in symmetric spaces (in Russian).

PhD thesis advisor: Professor E.M. Semenov.
Doctoral thesis title: Interpolation of operators and its applications (in Russian).
8. Actual Academic Position: Professor in Mathematics, Chair, Department of Mathematics, Samara National Research University (former Samara State University) from 1999.
9. Pedagogical Experience: course Functional Analysis and special courses "Interpolation of Operators "Rearrangement Invariant Spaces "Unconditional bases in Banach spaces "Martingale Theory "Indepe functions in rearrangement invariant spaces "Rademacher series "Geometry of Banach spaces "Fourier series "Harmonic analysis "Integral operators"etc at the Samara State University and then in Samara National Research University from 1983.
10. Scientific interests: geometry of Banach spaces, rearrangement invariant spaces, interpolation theory of operators, extrapolation theory of operators, orthogonal series, independent functions, lacunary series, Rademacher functions, Haar functions, harmonic analysis, probability and combinatorial methods in functional analysis, graph theory.
11. Grantee Research grants: Russian Fund Fundamental Research 2007-08, 2010-11, 2012-13, 2016-17, 2018-21; the Ministry of Education and Science of the Russian Federation 2016-20; Ministry of Science and Higher Education of the Russian Federation 2020; Royal Swedish Acad. Sciences 2003-04, 2006, 2008-10, 2015-16; Australian Research Council 2003-05, 2009-2010, 2012-2013; membership: Amer. Math. Soc.

## 12. Selected visiting and short term appointments 2002-

 2019: Visiting Research Professor in Adelaide University (reg.), Lulea University of Technology (reg.), Complutense University in Madrid, Sevilla University (reg.), Florida Atlantic University, University of New South Wales (reg.), Adam Mickiewicz University, Paris 6, Jussieu-PRG Institute of Math.
## 13. Recent Invitations and Plenary Lectures at International

 Conferences: Banach Space Geometry, St. Petersburg, September 2010; Function Spaces X, Poznan', June 2012; Complex Analysis and its Applications, Petrozavodsk, June-July 2014; Function Spaces XI, Zielona Gora, July 2015; Modern Problems of Function Theory and their Applications, Saratov, January-February 2016; Complex Analysis and its Applications, Petrozavodsk, June-July 2016; Function Theory, its Applications and Closed Problems-2017, XIII, Kazan', August 2017; International conference dedicated to the 100th anniversary of the birth of S.G. Krein, Voronezh, November 2017; Function Spaces XII, Krakow, July 2018; High-dimensional approximation and discretization, Moscow, September 2018; Modern Problems of Function Theory and their Applications, Saratov, January-February2018; Function Theory, its Applications and Closed Problems-2019, XIV, Kazan', September 2017; Approximation and Data Analysis 2019, Nizhniy Novgorod, September-October 2019; Function Theory and its Applications, Kazan', November-December 2019; Function Theory, Ufa, November 2020; Algebra, Analysis and Geometry, Kazan', August 2021; Approximation and discretization, Moscow, August-September 2021; Function Theory, Ufa, October 2021; Modern Problems of Function Theory and their Applications, Saratov, JanuaryFebruary 2022.
14. Professional Honors: Laureate of the Provincial Prize in the field of science and technology (2012 and 2018); Awarded by the title "Federal Professor"by the Ministry of Education and Science of the Russian Federation (2016), Awarded by the Governor of the Samara Region for outstanding results in solving mathematical problems (2021).
15. Professional Service: I am a member of Editorial Boards of the journals "Banach Journal of Mathematical Analysis" and "Contemporary Analysis and Applied Mathematics"; I have refereed for many top international journals including "Advances in Mathematics" , "Contemporary Mathematics", "Integral equations and operator theory", "Israel Journal of Mathematics", "Journal of Functional Analysis": "Journal of Mathematical Analysis and Applications", "Mathematische Annalen" , "Mathematische Nachrichten" , "Proceedings of the American Mathematical Society", "Sbornik: Math.", "St. Petersburg Journal", "Studia Mathematica" and for many others. A usual quota would be between 10 and 15 papers per annum.
16. Collaborators since 1985: M. Braverman, G. Curbera, F. Hernandez, J. Huang, Yu. Kim, N. Kalton, M. Leibov, K. Leśnik, K. Lykov, L. Maligranda, M. Mastylo, M. Milman, S. M. Nikol'skii, S. Novikov, R. Sukhanov, P. Sunehag, E. M. Semenov, Yu. Solodyannikov, S. Strakhov, F. Sukochev, P. Terekhin, K. Tikhomirov, R. Uzbekov, C.P. Wong, D. Zanin.
17. Ph.D. Students: (1)completed: Yu. Kim (1997), R.F. Uzbekov (2005), K.V. Lykov (2006), K.E. Tikhomirov (2011); (2) current student: S.I. Strakhov.
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## BOOKS

1. (joint with Yu. V. Solodyannikov) Convolutional Empirical Processes and Related Statistical Tests. Samara University, Samara, 2000 (in Russian). - 82 pp.
2. The Rademacher system in function spaces, M. Fizmatlit, 2017 (in Russian).- 550 pp .
3. The Rademacher system in function spaces, Birkhäuser, Switzerland, 2020.- 559 pp.

## SURVEYS

1. Rademacher functions in symmetric spaces, Contemporary mathematic Fundamental Directions, Russian Peoples' Friendship University 32(2009), 3-161 (in Russian); English transl. in J. Math. Sci. 169(2010), no. 6, 725-886.
2. (joint with F. A. Sukochev) Independent functions and the geometry of Banach spaces, Uspekhi Mat. Nauk 65(396)(2010), no. 6, 3-86 (in Russian); English transl. in Russian Math. Surveys 65(396)(2011), no. 6, 1003-1081.
3. (joint with K.V. Lykov) Extrapolation description of rearrangement invariant spaces and related problems, Proceedings of International Symposium on Banach and Function Spaces III (Kitakyushu, Japan, 2009), Yokohama Publisher (2011), 1-52.
4. (joint with L. Maligranda) Structure of Cesaro function spaces: a survey, Banach Center Publ. V. 102 (2014), 13-40.
5. (joint with K.V. Lykov) Jawerth-Milman extrapolation theory: Some recent developments with applications, Contemp. Math. 693(2017), 7-53.
6. (joint with M. Milman) Extrapolation Stories and Problems, Pure and Appl. Funct. Anal. 6 (2021), no. 3, 651-707.

## REFEREED JOURNAL ARTICLES

1. On a bilinear multiplicative operator, In: Issled. Teor. Funkst. Mnogikh Veshchestv. Perem., Yaroslavl' Gos. Univ., Yaroslavl'. 1982, 3-15 (in Russian).
2. On the stability of the real interpolation method, Dokl. Akad. Nauk UzSSR, 1983, no. 4, 10-11 (in Russian).
3. A description of interpolation spaces between $\left(l_{1}\left(w^{0}\right), l_{1}\left(w^{1}\right)\right)$ and $\left(l_{\infty}\left(w^{0}\right), l_{\infty}\left(w^{1}\right)\right)$, Mat. Zametki 35(1984), no. 4, 497-503 (in Russian); English transl. in Math. Notes 35(1984), no. 4, 261-265.
4. About interpolation spaces with respect to $l_{1}\left(w^{0}\right)$ and $l_{1}\left(w^{1}\right)$, In: Measure and Integral, Kuibyshev Gos. Univ., Kuibyshev. 1984, 25-34 (in Russian).
5. Stable interpolation functors, Funktsional. Anal. i Prilozhen. 19(1985), no. 2, 63-64 (in Russian); English transl. in Funct. Anal. Appl. 19(1985), 133-134.
6. A property of functors of the real interpolation method, Mat. Zametki 38(1985), no. 3, 393-406 (in Russian); English transl. in Math. Notes 38(1985), no. 3, 725-732.
7. (joint with M. Sh. Braverman) On a subspace of a symmetric space generated by the Rademacher system with vector coefficients, In: Operator Equations in Function Spaces, Voronezh Gos. Univ., Voronezh. 1986, 3-10 (in Russian).
8. On symmetric space with trivial Boyd indices, In: Measure and Integral, Kuibyshev Gos. Univ., Kuibyshev. 1988, 23-26 (in Russian).
9. (joint with V. I. Ovchinnikov) A functorial approach to interpolation of operators of weak type, Sibirsk. Mat. Zh. 32(1991), no. 3, 1223 (in Russian); English transl. in Siberian Math. J. 32(1991), no. 3, 360-370.
10. On interpolation of bilinear operators by the real method, Mat. Zametki 52(1992), no. 1, 15-24 (in Russian); English transl. in Math. Notes 52(1992), no. 1, 641-648.
11. On cones of step functions in symmetric spaces, Sibirsk. Mat. Zh. 34(1993), no. 4, 7-16 (in Russian); English transl. in Siberian Math. J. 34(1993), no. 4, 597-605.
12. Interpolation of operators in quasinormed groups of measurable functions, Sibirsk. Mat. Zh. 35(1994), no. 6, 1215-1222 (in Russian); English transl. in Siberian Math. J. 35(1994), no. 6, 1075-1082.
13. On orbital description of complex method of interpolation, In: Measure and Integral, Samara Gos. Univ., Samara. 1995, 28-34 (in Russian).
14. On multiplier of a rearrangement invariant space with respect to the tensor product, Funktsional. Anal. i Prilozhen, 30 (1996),
no. 4, 58-60 (in Russian); English transl. in Funct. Anal. Appl. 30 (1996), no. 4, 267-269.
15. (joint with Yu. E. Kim) Interpolation of bilinear operators in Marcinkiewicz spaces, Mat. Zametki 60(1996), no. 4, 483-494 (in Russian); English transl. in Math. Notes 60(1996), no. 4, 363-371.
16. On interpolation of subspaces of symmetric spaces generated by the Rademacher system, Transactions of RANS, series MMMIC, 1(1997), no. 1, 18-35 (in Russian).
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18. Operators of weak type and stability of the real interpolation method in symmetric spaces, Transactions of RANS, series MMMIC, 1(1997), no. 4, 3-25 (in Russian).
19. On series with respect to the Rademacher system in symmetric spaces "close" to $L_{\infty}$, Funktsional. Anal. i Prilozhen. 32(1998), no. 3, 62-65 (in Russian); English transl. in Funct. Anal. Appl. 32(1998), no. 3, 192-194.
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25. Rademacher chaos in symmetric spaces, 2, East J. Approx. $6(2000)$, no. 1, 71-86.
26. Systems of random variables equivalent in distribution to the Rademacher system and $\mathcal{K}$-closed representability of Banach couples, Mat. Sbornik 191(2000), no. 6, 3-30 (in Russian); English transl. in Sbornik: Math. 191(2000), no. 6, 779-807.
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31. (joint with S. M. Nikol'skii and S. Ya. Novikov) Evgenii Mikhailovich Semenov (on his 60th birthday), Uspekhi Mat. Nauk 56(2001), no. 6, 171-175 (in Russian); English transl. in Russian Math. Surveys 56(342)(2001), no. 6, 1193-1198.
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44. On interpolation of intersections by the real method of interpolation, Algebra i Analiz 17(2005), no. 2, 33-69 (in Russian); English transl. in St. Petersburg Math. J. 17(2006), no. 2, 239-266.
45. On interpolation of intersections generated by a linear functional, Funktsional. Anal. i Prilozh. 39(2005), no. 2, 61-64 (in Russian); English transl. in Funct. Anal. Appl. 39(2005), no. 2, 131-134.
46. (joint with F.A. Sukochev) Series of independent random variables in r.i.s.: an operator approach, Israel J. of Math. 145(2005), 125-156.
47. (joint with E.M. Semenov and F.A. Sukochev) The BanachSaks p-property, Math. Annalen 332(2005), 879-900.
48. (joint with G.P. Curbera) Symmetric kernel of Rademacher multiplicator spaces, J. Funct. Anal. 226(2005), 173-192.
49. (joint with K.V. Lykov) Extrapolatory description for the Lorentz and Marcinkiewicz spaces "close" to $L_{\infty}$, Sibirsk. Mat. Zh. 47(2006), no. 5, 974-992 (in Russian); English transl. in Siberian Math. J. 47(2006), no. 5, 797-812.
50. (joint with P. Sunehag) The real method on couples on intersections , Funktsional. Anal. i Prilozh. 40(2006), no. 3, 66-69 (in Russian); English transl. in Funct. Anal. Appl. 40(2006), no. 3, 218-221.
51. (joint with F. A. Sukochev) Sums of independent functions in symmetric spaces with the Kruglov property, Mat. Zametki 80(2006), no. 4, 630-636 (in Russian); English transl. in Math. Notes 80(2006), no. 4, 593-598.
52. On the normability of Marcinkiewicz classes, Mat. Zametki 81(2007), no. 4, 483-489 (in Russian); English transl. in Math. Notes 81(2007), no. 4, 429-434.
53. (joint with F.A. Sukochev) Banach-Saks property in Marcinkiewicz spaces// J. Math. Anal. Appl., 336(2007), no. 2, 1231-1258.
54. (joint with F. A. Sukochev) Series of independent mean zero random variables in rearrangement invariant spaces with the Kruglov property, Zap. nauchn. semin. POMI. Issled. po lin. oper. i teor. f-ii. Ch. 35. 345(2007), 25-50 (in Russian); English transl. in Math. Sciences. 148(2008), no. 6, 795-809.
55. Interpolation of subspaces of codimension one, Vestnik Samara Gos. Univ. 59(2007), no. 9/1, 75-84 (in Russian).
56. Lieb-Thirring inequality for $L_{p}$-norms, Mat. Zametki 83(2008), no. 2, 163-169 (in Russian); English transl. in Math. Notes 83(2008), no. 1-2, 145-151.
57. (joint with P. Sunehag) Real method of interpolation on subcouples of codimension one, Studia Math. 186(2008), no.2, 151-168.
58. A generalized Khintchine inequality in rearrangement invariant spaces, Funktsional. Anal. i Prilozh. 42(2008), no. 2, 78-81 (in Russian); English transl. in Funct. Anal. Appl. 42(2008), no. 2, 144-147.
59. (joint with G.P. Curbera) Rademacher multiplicator spaces equal to $L^{\infty}$, Proc. Amer. Math. Soc. 136(2008), 3493-3501.
60. Independent functions in symmetric spaces and Kruglov property, Mat. Sbornik 199(2008), no. 7, 3-20 (in Russian); English transl. in Sbornik: Math. 199(2008), no. 7, 945-963.
61. (joint with L. Maligranda) Ultrasymmetric Orlicz spaces, J. Math. Anal. Appl., 347(2008), 273-285.
62. (joint with L. Maligranda) Cesaro function spaces fail the fixed point property, Proc. Amer. Math. Soc., 136(2008), no. 12, 4289-4294.
63. (joint with N. Kalton and F. A. Sukochev) Cesaro mean convergence of martingale differences in rearrangement invariant spaces, Positivity, 12(2008), 387-406.
64. (joint with K.V. Lykov) Strong extrapolation spaces and interpolation, Sibirsk. Mat. Zh. 50(2009), no. 2, 250-266 (in Russian); English transl. in Siberian Math. J. 50(2009), no. 2, 199-213.
65. (joint with D.V. Zanin, E.M. Semenov, and F. A. Sukochev) Kruglov operator and operators defined by random permutations, Funktsional. Anal. i Prilozh. 43(2009), no. 2, 3-18 (in Russian); English transl. in Funct. Anal. Appl. 43(2009), no. 2, 83-95.
66. (joint with E.M. Semenov and F. A. Sukochev) Banach-Saks type properties in rearrangement-invariant spaces with Kruglov property, Houston Math. J., 35(2009), no. 3?, 959-973.
67. (joint with E.M. Semenov and F. L. Hernandez) Strictly singular inclusions of rearrangement invariant spaces and Rademacher spaces, Stud. Math. 193(3)(2009), 269-283.
68. (joint with G.P. Curbera) Rearrangement invariance of Rademacher multiplicator spaces, J. Funct. Anal. 256(2009), 4071-4094.
69. On the comparison of distribution functions of random variables, Mat. Zametki 87(2010), no. 1, 17-25 (in Russian); English transl. in Math. Notes 87(2010), no. 1, 15-22.
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71. (joint with K.V. Tikhomirov) On stability of K-monotonicity of Banach couples, Rev. Mat. Compl. 23(2010), no. 1, 113-137.
72. (joint with L. Maligranda) Structure of Cesaro function spaces, Indag. Mathem., N.S. 20(3)(2009), 329-379.
73. (joint with L. Maligranda) Rademacher functions in Cesaro type spaces, Stud. Math. 198(3) (2010), 235-247.
74. Vector-valued sums of independent functions in rearrangement invariant spaces, Sibirsk. Mat. Zh. 51(2010), no. 4, 738-750 (in Russian); English transl. in Siberian Math. J. 51(2010), no. 4, 584-594.
75. (joint with F. A. Sukochev) Best constants in Rosenthal-type inequalities and the Kruglov operator, Ann. Probab. 38(2010), no. 5, 1986-2008.
76. Rademacher series and isomorphisms of rearrangement invariant spaces on the finite interval and on the semi-axis, J. Funct. Anal. 260(2011), 195-207.
77. (joint with L. Maligranda) Geometry of Cesaro function spaces, Funktsional. Anal. i Prilozh. 45(2011), no. 1, 79-83 (in Russian); English transl. in Funct. Anal. Appl. 45(2011), no. 1, 64-68.
78. On the finite representability of $l_{p}$-spaces in rearrangement invariant spaces, Algebra i Analiz 23(2011), no. 2, 77-101 (in Russian); English transl. in St. Petersburg Math. J. 23(2012), no. 2, 257-2736.
79. (joint with F. A. Sukochev) Symmetric quasi-norms of sums of independent random variables in symmetric function spaces with the Kruglov operator, Israel J. of Math. 184(2011), no. 1, 455-476.
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81. (joint with M. Leibov and L. Maligranda) Rademacher functions in BMO, Stud. Math. 205(2011), no. 2, 83-100.
82. (joint with F. A. Sukochev and C.P. Wong) Disjointification of martingale differences and conditionally independent random variables with some applications, Stud. Math. 205(2011), no. 2, 171-200.
83. (joint with R.S. Sukhanov) On some properties of Rademacher chaos, Mat. Zametki, 91(2012), no. 5, 654-666 (in Russian); English transl. in Math. Notes 91(2012), no. 5, 613-624.
84. On the geometric properties of Cesaro spaces, Mat. Sbornik 203(2012), no. 4, 61-80 (in Russian); English transl. in Sbornik: Mathematics 203(2012), no. 4, 514-533.
85. (joint with K.V. Lykov and M. Mastylo) On extrapolation of rearrangement invariant spaces, Nonlinear Analysis 75(2012), 2735-2749.
86. (joint with E.M. Semenov) Haar Series and Spaces Determined by the Paley Function, Dokl. Akad. Nauk 445(2012), no. 5, 495497 (in Russian); English transl. in Doklady Math. 86(2012), no. 1, 539-541.
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88. Geometrical properties of Banach spaces generated by sublinear operators, Positivity 17 (2012), no. 2, 223-234.
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90. (joint with E.M. Semenov) Spaces defined by Paley function, Mat. Sbornik 204(2013), no. 7, 3-23 (in Russian); English transl. in Sbornik: Math. 204(2013), no. 7, 937-957.
91. (joint with L. Maligranda and R.S. Sukhanov) Sequences of independent Walsh functions in BMO, Sibirsk. Mat. Zh. 54(2013), no. 2, 270-278 (in Russian); English transl. in Siberian Math. J. 54(2013), no. 2, 205-211.
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99. (joint with F. A. Sukochev) Orlicz sequence spaces spanned by identically distributed independent random variables in $L_{p^{-}}$ spaces, J. Math. Anal. Appl. 413(2014), 1-19.
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