Alexey N. Karapetyants

Curriculum Vitae

Professional experience:

Jan. 2008 – Present	**Full Professor** in Mathematics, Southern Federal University, Institute of Math., Mechanic and Computer Sciences, RUSSIA (main position, permanent position).
March 2018 – Present	**Head and Organizer and Principal Researcher** at Regional Mathematical Center of Southern Federal University, RUSSIA.
Sep.2018 – Dec. 2018	**Fulbright Research Visiting Scholar**, State University of New York at Albany, Mathematics and Statistics Department, Albany, NY, USA.
Jan. 2015 – Aug. 2018	**Full Professor in Mathematics, Head of the Chair** of Software Engineering and Automatic Systems, Don State Technical University, RUSSIA (part time position).
April 2008 –Aug. 2012	**Vice-Rector for IT**, Southern Federal University, RUSSIA, www.sfedu.ru
Sep. 2007 –Dec. 2007	**DAAD Visiting Research Scholar** (The German Academic Exchange Service / Deutscher Akademischer Austauschdienst) at Freie Universität Berlin, Berlin, Germany.
Sep. 2003 – Dec. 2003	**Visiting Professor**, University of Missouri - Columbia, College of Arts and Science, USA
June 2002 – Dec.2007	Associate Professor, Rostov State University (presently - Southern Federal University), RUSSIA
Sep. 2001 – June 2002	**Visiting Professor**, University of Arkansas, Fulbright College of Arts and Science, Fayetteville, USA
Jan.2001 – Aug. 2001	**Full Professor** (Profesor Titular C) The Metropolitan Autonomous University (UAM), Mexico D.F., MEXICO
Sep. 1998 – Dec. 2000	**Postdoctoral "Lefschetz Research Fellowship"** Centre for Research and Advanced Study (CINVESTAV), MEXICO
Sep.1996 – Aug. 1998	**Assistant Professor** Rostov State University (presently - Southern Federal University), RUSSIA

Education:

01.09.2004-07.04.2007. Doctor of Sciences (Mathematics)	The second degree (Habilitation) awarded on April 2007 by the Russian Highest Attestation Commission, Rostov State University and Institute for Mathematics and Mechanic of the Ural Branch of the Russian Academy of Sci., RUSSIA.
01.09.1994- 25.04.1997. Ph.D. (Mathematics)	The Candidate of science degree (equivalent of Ph.D.) awarded on February 1997 by Rostov State University, Rostov-on-Don, RUSSIA.
01.09.1989-30.06.1994 Master of Sciences (Mathematics)	Diploma with honour (summa cum laude) awarded June 1994 after graduation from Mechanic and Mathematics Department at Rostov State University, RUSSIA.

Publications in peer-reviewed scientific journals

1. A.Karapetyants, I. Louhichi. Fractional Integrodifferentiation and Toeplitz operators with vertical symbols. W. Bauer et al. (eds.), Operator Algebras, Toeplitz Operators and Related Topics, Operator Theory: Advances and Applications 279, https://doi.org/10.1007/978-3-030-44651-2_13
2. A.Karapetyants, J.Taskinen. Toeplitz operators with radial symbols on weighted holomorphic Orlicz space. W. Bauer et al. (eds.), Operator Algebras, Toeplitz Operators and Related Topics, Operator Theory: Advances and Applications 279, https://doi.org/10.1007/978-3-030-44651-2_14
3. O.Blasco, A.N.Karapetyants, J.E.Restrepo. Holomorphic Holder type spaces and composition operators. Math. Meth. Appl. Sci. (to appear).
4. Karapetyants A, Liflyand E. Defining Hausdorff operators on Euclidean spaces. Math. Meth. Appl. Sci. 2020; 1–12. https://doi.org/10.1002/mma.6448

5. A.Karapetyants, K.Khmelnytskaya and V.Kravchenko. A practical method for solving the Inverse quantum scattering problem on a half line. J. Phys.: Conf. Ser. 1540 012007. https://doi:10.1088/1742-6596/1540/1/01200
6. A.N.Karapetyants, S.G.Samko. K.Zhu. A class of Hausdorff - Berezin operators on the unit disc. Complex Anal. Oper. Theory (2019). https://doi.org/10.1007/s11785-019-00934-x
7. A.N.Karapetyants, J.E.Restrepo Boundedness of projection operator and Berezin transform in generalized holomorphic and harmonic spaces of Holder type functions. Modern Methods in Operator Theory and Harmonic Analysis, Springer Proceedings in Mathematics & Statistics 291, 2019. https://doi.org/10.1007/978-3-030-26748-3_4
8. A.N.Karapetyants, J.E.Restrepo Generalized Hoelder type spaces of harmonic functions in the unit ball and half space. Czechoslovak Mathematical Journal (2019) https://doi.org/10.21136/CMJ.2019.0431-18
9. A.Karapetyants, H. Rafeiro, S.Samko. On singular operators in vanishing generalized variable exponent Morrey spaces and applications to Bergman type spaces. Mathematical Notes, Vol. 106, Issue 5–6, pp 727–739 (2019). https://doi.org/10.1134/S0001434619110075
10. A.N.Karapetyants, S.G.Samko. Generalized Hoelder spaces of holomorphic functions in domains in the complex plane. Mediterranean Journal of Mathematics (2018) 15:226, DOI: https://doi.org/10.1007/s00009-018-1272-z
11. A. N. Karapetyants, S. G. Samko. On Grand and Small Bergman Spaces, Mathematical Notes, (2018) 104: 431. translated from Matematicheskie Zametki, 2018, Vol. 104, No. 3, pp. 439–446. https://doi.org/10.1134/S0001434618090109
12. Alexey N. Karapetyants, Stefan G. Samko. On mixed norm Bergman–Orlicz–Morrey spaces. Georgian Mathematical Journal, (2018) Volume 25, Issue 2, Pages 271–282, ISSN (Online) 1572-9176, ISSN (Print) 1072-947X, DOI: https://doi.org/10.1515/gmj-2018-0027
13. A.Karapetyants, H. Rafeiro, S.Samko. Boundedness of the Bergman projection and some properties of Bergman type spaces. Complex Analysis and Operator Theory. 1-15 (2018). https://doi.org/10.1007/s11785-018-0780-y
14. Karapetyants A., Samko S. Mixed norm spaces of analytic functions as spaces of generalized fractional derivatives of functions in Hardy type spaces, Fract. Calc. Appl. Anal. no. 5 (2017), 1106-1130. DOI: https://doi.org/10.1515/fca-2017-0059.
15. Karapetyants A., Samko S. On boundedness of Bergman projection operators in Banach spaces of holomorphic functions in half plane and harmonic functions in half space. Journal of Mathematical Sciences. 226:4 (2017), 344-354. ISSN 1072-3374. https://doi.org/10.1007/s10958-017-3538-6.
16. Karapetyants A., Samko S. Mixed norm Bergman - Morrey type spaces on the unit disc. Math. Notes, Volume 100, Issue 1, pp 38–48 (2016). ISSN: 0001-4346. translated from Matematicheskie Zametki, 2016, Vol. 100, No. 1, pp. 47–57. https://doi.org/10.1134/S000143461607004X
17. Karapetyants A., Samko S. Mixed norm variable exponent Bergman space on the unit disc. Complex Variables and Elliptic Equations. Volume 61, Issue 8, pages 1090-1106 (2016). ISSN:1747-6933. https://doi.org/10.1080/17476933.2016.1140750
18. A.N.Karapetyants, F.D.Kodzoeva. Characterization of weighted analytic Besov spaces in terms of operators of fractional differentiation. Fract. Calc. Appl. Anal., Vol.17, No3 (2014), pp.897-906. ISSN: 1311-0454. https://doi.org/10.2478/s13540-014-0204-2.
19. A.N. Karapetyants, F.D. Kodzoeva. Characterization of functions from spaces defined in terms of p-integrability of mean oscillation. Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences. 2013, 6, 17-24. ISSN 0321-3005.
20. A.N. Karapetyants, I.Yu. Smirnova. On a connection of weighted mixed norm Bergman spaces on upper half space and unit disc with Hardy spaces. Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences. 4, (2012), 15-17. ISSN 0321-3005.
21. A.N.Karapetyants, F.D.Kodzoeva. On certain spaces of functions defined in terms of p-integrability of mean oscillation. Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences. 4, (2012), 5-8. ISSN 0321-3005.
22. A.N. Karapetyants, S.G.Samko, Spaces BMO^p(z)(D) with variable exponent, Georgian Math. J., 17:3, (2010). ISSN 1572-9176, e-ISSN:1072-947X. https://doi.org/10.1515/gmj.2010.028
23. A.N.Karapetyants. On functions arising as potentials with oscillating symbols, Fractional Calc. Applied Anal., 11:4 (2008), 421-430. ISSN 1311-0454, e-ISSN 1314-2224. http://www.diogenes.bg/fcaa/volume11/fcaa114/Karapetyants_fcaa114.pdf

24. A.N.Karapetyants. Toeplitz operators with radial symbols on weighted Bergman spaces on the unit disc, Vestnik of Southern Scientific Center of Russian Academy of Sciences, 2:1 (2006), 3-9. ISSN 1813-4289. http://dx.doi.org/10.23885/1813-4289-2006-2-1-3-9
25. A.N.Karapetyants, S.M.Grusdkii, N.L.Vasilevskii, Dynamics of properties of Toeplitz operators in weighted Bergman spaces. Siberian Electronic Math. Reports, 3 (2006), 362-383. ISSN 1813-3304.
26. A.N.Karapetyants. On functions represented as potential with oscillating at infinity symbol. Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences, 7 (2006), 22-33. ISSN 0321-3005.
27. A.N.Karapetyants, V.A.Nogin. Estimates for twisted convolution operators with singularities of kernels on a sphere and at the origin. Differential Equations, 42(5), 720-731, 2006. ISSN: 00122661. DOI: 10.1134/S0012266106050119.
28. A.N.Karapetyants. Characterization of weighted $BMO^1_\lambda(D)$ spaces in terms of mean oscillation in the Bergman metric, Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences, 1 (2006), 15-19. ISSN 0321-3005
29. A.N.Karapetyants. The space BMO^p_λ, compact Toeplitz operators with BMO^1_λ symbols on weighted Bergman spaces and the Berezin transform. Russian Mathematics (Izv. VUZ) 8 (2006), 71 - 74.
30. A.N.Karapetyants, F.D.Kodzoeva. Characterization of functions from analytic weighted Besov space on a unit disc. Complex analysis. The theory of operators. Mathematical modeling. Eds. Yu.F.Korobeinik and A.G. Kusrayev. Vladikavkaz: Vladikavkaz Scientific Center of Russian Academy of Sciences, 2006, 48-62.
31. A.N.Karapetyants, V.A.Nogin. $L_p \to L_q$ - estimates for the twisted convolution operators whose kernel has singularities on a sphere and at the origin of coordinates. Russian Mathematics (Iz. VUZ), 50:2, 69-72, 2006. ISSN 1066-369X, e-ISSN 1934-810X.
32. A.N.Karapetyants, F.D.Kodzoeva, Analytic weighted Besov spaces on the unit disk. Proc. A.Razmadze Math. Inst., 139 (2005), 125-127. ISSN 1512-0007.
33. A.N.Karapetyants, Toeplitz operators with BMO symbols on weighted Bergman spaces and Berezin transform Izvestya VUZOV. Severo-Kavkazskii Region. Natural Sciences. Special Issue: Pseudo-differential equations and some problems of mathematical physics, (2005) 78-82. ISSN 0321-3005.
34. A.N.Karapetyants. Characterization of functions from weighted $BMO^1_\lambda(D)$ space over unit disc. Izvestya VUZOV. Severo-Kavkazskii Region. Supplement. No 9 (2005), 8-17. ISSN 0321-3005.
35. A.N.Karapetyants, A.V.Golikov. Berezin transform and radial operators on weighted Bergman space on the unit disc. Vladikavkaz Math. Journal, 7 (2005), no. 2, 55-63. ISSN: 16833414, EISSN:18140807.
36. A. N. Karapetyants, D. N. Karasev, V. A. Nogin, $L_p \to L_q$-estimates for the fractional acoustic potentials and some related operators, Fract. Calc. Appl. Anal. 8 (2005), no. 2, 155 - 172. ISSN 1311-0454, e-ISSN 1314-2224.
37. S. M. Grudsky, A. N. Karapetyants, N. L. Vasilevski, Dynamics of properties of Toeplitz operators on the upper half plane: Parabolic case, J. Operator Theory, 52 (2004), no. 1, 185-214. MR 2091467. ISSN: 0379-4024 (https://www.jstor.org/stable/24718968?seq=1)
38. S. M. Grudsky, A. N. Karapetyants, N. L. Vasilevski, Dynamics of properties of Toeplitz operators on the upper half plane: Hyperbolic case, Bol. Soc. Mat. Mexicana, 10 (2004), no. 2, 119-138. MR 2072008. ISSN: 1405213X.
39. S. M. Grudsky, A. N. Karapetyants, N. L. Vasilevski, Dynamics of properties of Toeplitz operators with radial symbols, Integral Equations Operator Theory, 50 (2004), no. 2, 217-253. MR 2099791. ISSN: 0378620X. https://doi.org/10.1007/s00020-003-1295-z
40. A. N. Karapetyants, D. N. Karasev, V. A. Nogin, Estimates for some potential type operators with oscillating kernels, Proceedings of the National Academy of Sciences of Armenia (Mathematics) 38 (2003), no. 2, 37-62; translation in J. Contemp. Math. Anal. 38 (2003), no. 2, 35-61 (2004). MR2136322. ISSN 1068-3623б e-ISSN 1934-9416 (http://mathematics.asj-oa.am/id/eprint/274)
41. A. N. Karapetyants, E. Ramirez de A., $L_p \to L_q$ boundedness for some convolution and twisted convolution operators, book chapter in “Singular Integral Operators, Factorization and Applications Proceedings” in the series "Operator Theory: Advances and Applications" of Birkauser Verlag, 142 (2003), 133-145. https://doi.org/10.1007/978-3-0348-8007-7_8
42. S. M. Grudsky S., A. N. Karapetyants, N. L. Vasilevski, Toeplitz operators on the unit ball in C^n with radial symbols, J. Operator Theory, 49 (2003), no. 2, 325-346. MR 1991742. ISSN: 0379-4024. (https://www.jstor.org/stable/24718920?seq=1)
43. A. N. Karapetyants, E. Ramirez de A., A boundedness result for twisted convolution, Math. Nachr., 250 (2003), 58-70. MR 1956601. ISSN: 0025-584X. DOI: 10.1002/mana.200310021.

44. A. N. Karapetyants, V. A. Nogin, Complex powers of the second order non-homogeneous elliptic differential operators with degenerating symbols in the spaces $L_p(R^n)$, Bol. Soc. Mat. Mexicana, (3) 7 (2001), no. 2, 193-209. MR 1871791, ISSN: 1405-213X.
45. A. N. Karapetyants, V. S. Rabinovich, N. L. Vasilevski, On algebras of two dimensional singular integral operators with homogeneous discontinuities in symbols, Integral Equations Operator Theory, 40 (2001), no. 3, 278-308. MR 1840185. ISSN: 0378620X. DOI: 10.1007/BF01299848.
46. A. N. Karapetyants, On $L_p \to L_q$ boundedness for convolutions with kernels having singularities on a sphere, Studia Math., 144 (2001), no. 2, 121-134. MR 1813368, ISSN: 0039-3223. DOI: 10.4064/sm144-2-2
47. A. N. Karapetyants, V. A. Nogin, On L characteristic of some potential type operators with oscillating symbols and singularities of the kernels on a sphere, Acta Mathematica Hungarica, Volume 92, Issue 1-2, 2001, Pages 1-10. MR 1924243, ISSN: 0236-5294. https://doi.org/10.1023/A:1013772408135 translated from Dokl. Akad. Nauk, 370 (2000), no. 3, 300-302. MR1762625
48. A. N. Karapetyants, E. Ramirez de Arellano. On the inversion of potential type operators with kernels having singularities on a sphere. Fractional Calculus and Applied Analysis, 3 (2000), no. 2, 141-160. MR 1757270. ISSN 1311-0454, e-ISSN 1314-2224.
49. A. N. Karapetyants, V. A. Nogin, On the L-characteristic of some potential-type operators with oscillating symbols and singularities of the kernels on a sphere, Dokl. Akad. Nauk, 370 (2000), no. 3, 300-302. MR1762625
50. A. N. Karapetyants, V. A. Nogin, Inversion of potential-type operators with kernels possessing singularities on the sphere, J. Contemp. Math. Anal. 34 (1999), no. 1, 55-69; translated from Izv. Nats. Akad. Nauk Armenii. Math. 34, (1999), no. 1, 57-71 (2000). MR 1854058. ISSN: 00002-3043.
51. A. N. Karapetyants, E. Ramirez de Arellano. Characterization of anisotropic Lizorkin-type mixed norm spaces generated by degenerate differential operators, Fract. Calc. Appl. Anal. 2 (1999), no. 2, 193-204. MR 1689186. ISSN 1311-0454, e-ISSN 1314-2224.
52. A. N. Karapetyants, V. A. Nogin, Characterization of functions in anisotropic spaces of complex order, Izv. Vyssh. Uchebn. Zaved. Mat. 1998, no. 5, 24-30; translation in Russian Math. (Iz. VUZ) 42 (1998), no. 5, 22-28. MR 1639162; ISSN PRINT: 1066-369X
53. A. N. Karapetyants, V. A. Nogin. Complex powers of second order elliptic differential operators with degenerating symbols in the spaces Lp(Rn), Dokl. Akad. Nauk, 358 (1998), no. 1, 10-12; translated in Russian Acad. Sci. Dokl. Math., 57 (1998) no. 1, 4-6. MR 1618520.
54. A. N. Karapetyants, V. A. Nogin. Inversion of some multiplicative operators in the spaces $L_p(\R^n) $}, Boundary value problems, special functions and fractional calculus. (Minsk, 1996), 98-100, Belarus. Gos. Univ., Minsk, 1996. MR 1428927
55. A.N.Karapetyants, V.A.Nogin. The description of functions in anisotropic spaces of complex order and its application, Dokl. Akad. Nauk, 351 (1996), no. 1, 13-15; translated in Russian Acad. Sci. Dokl. Math., 54 (1996), no. 3, 821-823. MR 1444222. ISSN: 10645624

Edited books and issues.

1. Alexey Karapetyants, Vladislav Kravchenko, Elijah Liflyand (Editors). Operator Theory and Harmonic Analysis. Vol. 1: New General Trends and Advances of the Theory, Springer Proceedings in Mathematics & Statistics (in progress).
2. A.Karapetyants, I.Pavlov, A Shiryaev. Operator Theory and Harmonic Analysis. Vol. 2: Probability-Analytical Models, Methods and Applications (in progress)
3. A. Karapetyants, V. Kravchenko, E. Liflyand (Editors). Modern Methods in Operator Theory and Harmonic Analysis, Springer Proceedings in Mathematics & Statistics 291, 2019. https://doi.org/10.1007/978-3-030-26748-3
4. A. Karapetyants, V. Kravchenko, E. Liflyand (Editors). Special Issue “Operator Theory and Harmonic Analysis” in Math Meth Appl Sci., Wiley, 2000

Participation in Doctoral Jury (jury member and opponent)

1. Lulea Technical University (LTU), Lulea, Sweden: June 2012, December 2015, December 2016, June 2017 and June 2018
2. The Arctic University of Norway (UiT), Narvik, May 2017
3. Armenian Polytechnic University, Erevan, Armenia, October 2014

4. Southern Federal University, Russia, permanent member of D.Sc. and Ph.D. council since 2009
5. University of Antioquia, Medellin, Colombia, June 2018

Invited talks at seminars and colloquia

1. Seminar of the Armenian Mathematical Society (coordinator - Yuri Movsisyan, president), Yerevan, Armenia, December 2019.
2. Seminar at the Mathematics Department at Napoli University Federico II (coordinator – Professor Carlo Sbordone), Napoli, Italy, November 2019
3. Mathematical Analysis Seminar at the Department of Mathematics of University of Torino (coordinator - Professor Sandro Coriasco), Torino, Italy, November 2019.
4. Stockholm analysis seminar of KTH and University of Stockholm (coordinators – Professors Annemarie Luger and Haakan Hedenmalm), Stockholm, Sweden, May 2019.
5. Seminar of the Mathematics Department of University of Helsinki (coordinator – Professor Hans-Olav Tylli), Helsinki, Finland, May 2019.
6. Seminar of the Mathematics Department of University of Padova (coordinator – Professor Massimo Lanza de Cristoforis), Padova, Italy, March 2019.
7. Seminar of Graduate Center at City University of New-York (seminar on Harmonic analysis and PDE, coordinator-Professor Azita Mayeli), New-York, USA, December 2018.
8. Seminar of the Mathematics and Statistics Department (Analysis and Data Science Seminar), State University of New York-Albany (coordinator-Professor Joshua Isralowitz), Albany, NY, USA, December 2018.
9. Seminar at the Department of Mathematics, University of Alabama at Tuscaloosa (coordinator-Professor David Cruz-Uribe), Tuscaloosa, AL, USA, November 2018.
10. Colloquium at the Mathematics and Statistics Department at the University of Toledo (coordinator- Professor Zeljko Cuckovic), Toledo, OH.
11. Seminar at the Department of Mathematics, Michigan State University (coordinator-Professor Alexander Volberg), East Lancing, MI, USA, November 2018.
12. Colloquium of the Department of Mathematical Sciences of the Kent State University (coordinator - Professor Fedor Nazarov), Kent, OH, USA, November 2018.
13. Seminar of the Department of Mathematics (Analysis seminar) of the Syracuse University (coordinator - Professor Leonid Kovalev), Syracuse, NY, USA, November 2018.
14. Seminar of the Department of Mathematics (Applied/PDE seminar) of the University of California at Santa Barbara, Santa Barbara, CA, USA, October 2018.
15. Colloquium of the Department of Mathematics at Louisiana State University (coordinator - Professor Boris Rubin), Baton Rouge, Louisiana, USA, October 2018
16. Seminar of the Department of Mathematics (Applied Analysis Seminar) at Louisiana State University (coordinator - Professor Gestur Olafsson), Baton Rouge, Louisiana, USA, October 2018.
17. Seminar of the Mathematics and Statistics Department (Analysis and Data Science Seminar), State University of New York-Albany (coordinator-Professor Joshua Isralowitz), Albany, NY, USA, September 2018.
18. Seminar of the Mathematics Department, University of Antioquia, Medellin (coordinator-Professor Armen Jerbashian), Medellin, Colombia, June 2018.
19. International Workshop WPML-2018-I (the Workshop for PhD students in Mathematics), Luleå University of Technology (coordinators – Profs. Peter Wall and Lars-Eric Persson), Luleå, Sweden. June 2018.
20. Seminar of the Mathematics Department of University of Padova (coordinator – Professor Massimo Lanza de Cristoforis), Padova, Italy, February 2018.
21. Seminar at Mathematics Department, Universidad Autonoma de Madrid (coordinator – Prof.Eugenio Hernández), Madrid, Spain, November 2017
22. Seminar at Mathematics Department, Universidad de Alicante (coordinator – Dr. Angel San Antolin Gil), Alicante, Spain, November 2017.
23. Seminar at Mathematics Department, University of Murcia (coordinator- Prof. Gustavo Garrigos), Murcia, Spain, November 2017.
24. Seminar at Mathematics Department, American University of Sharjah (coordinator – Dr. Cristian Enache), Sharjah-United Arab Emirates, October 2017.
25. Seminar of the Research Center CEAFEL at Instituto Superior Tecnico – Lisbon (coordinator - Professor Helena Mascarenhas), Lisbon, Portugal, September 2017.

26. Seminar on Function Analysis and Applications at University of Aveiro and Center CIDMA. (Coordinator-Professor Luis Castro), Aveiro, Portugal, September 2017
27. International Workshop WPML-2017-I (the Workshop for PhD students in Mathematics), Luleå University of Technology (coordinators – Profs. Peter Wall and Lars-Eric Persson), Luleå, Sweden. June 2017.
28. Seminar on "Complex problems of mathematical physics" of Steklov Mathematical Institute of Russian Academy of Sciences (coordinator – Professor A.G.Segeev), Moscow, Russia. May 2017.
29. Seminar of the Mathematics Department of University of Padova (coordinator – Professor Massimo Lanza de Cristoforis), Padova, Italy. March 2017.
30. International Workshop WPML-2016-II (the Workshop for PhD students in Mathematics), Luleå University of Technology (coordinators – Profs. Peter Wall and Lars-Eric Persson), Luleå, Sweden. December 2016.
31. Mathematics Colloquium at Mathematical Institute of the Serbian Academy of Sciences and Arts (Chairman: Prof. Zoran Petrić), Belgrade, Serbia, December 2016.
32. Seminar of the Department of Mathematical Physics of Steklov Mathematical Institute of Russian Academy of Sciences (coordinator – corresponding member of RAS, Prof. I.V. Volovich), Moscow, Russia. December 2016.
33. Seminar "Analysis and Differential Equations" of the Department of Mathematics of the Center for Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV), Campus Queretaro (coordinator-Prof. Vladislav Kravchenko), Mexico, November 2015.
34. Roundtable on Seismodynamics. Modeling of Geomechanics. Nonlinear Boundary Value Problems at the Research Institute of Mathematical Physics and Seismodynamics, Grozny, Russia, October 2013.
35. Joint seminar for scholars of Russian-German program "Mikhail Lomonosov II" and "Immanuel Kant", DAAD (Coordinator – Dr..Natalia Prahl), Moscow, Russia, June 2009.
36. Seminar of Mathematics Department at Autonomous University of Madrid (Coordinator - Prof. G.Garrigos) Madrid, Spain, December 2007.
37. Colloquium on Analysis at Mathematics Department, Free University of Berlin (Coordinator - Professor H.Begehr), Berlin, Germany, November 2007.
38. Seminar on Harmonic Analysis and Applications at Mathematics Department, University of Algarve (Coordinator - Professor S.G.Samko), Faro, Portugal, December 2006.
39. Seminar on Functional Analysis and Applications at the Research Center of Mathematics and Applied Mathematics, Higher Technical Institute of Portugal (Coordinator - Professor F.-O. E.Speck) Lisbon, Portugal, November 2006.
40. Seminar on Complex and Linear Analysis, St. Petersburg Department of the Steklov Mathematical Institute of the Russian Academy of Sciences (Coordinators - Professor S.V.Kislyakov and Professor V.P.Havin), St. Petersburg, Russia, June, 2006.
41. Seminar at Institute of Mathematics and Mechanic of the Ural Branch of the Russian Academy of Sciences (Coordinator - Yu.N.Subbotin, corresponding member of RAS), Yekaterinburg, Russia, June, 2006.
42. City Minsk Seminar named after F.D.Gakhov (Coordinators Professors A.A.Kilbas, E.I.Zverovich), Minsk, Belarus, November 2005.
43. Colloquium on functional analysis at the Mathematics Department, University of Missouri Workshop (Coordinator - Professor Yu.D.Latushkin), Columbia, Missouri, USA, November 2003.
44. Seminar on Harmonic Analysis at the Mathematics Department, University of Missouri (Coordinator - Professor Marius Mitrea), Columbia, Missouri, USA, October 2003.
45. Department of Mathematics, Howard University (Coordinator - Professor Cora Sadosky) Washington DC, USA, April 2002.
46. Mathematical Colloquium at the Mathematics Department, University of Arkansas (Coordinator - Professor D.Lueking) Fayetteville, Arkansas, USA, November 2001.
47. Analysis Seminar at the Mathematics Department, University of Arkansas (Coordinator - Professor D.Havinson), Fayetteville, Arkansas, USA, October 2001.
48. Seminars of Department of Analysis of the Faculty of Natural Sciences of the Autonomous University of Mexico (Coordinator - Professor Jorge Esquivel), Mexico City, Mexico, June 2001 - July 2001.
49. Seminars of Center for Research and Advanced Studies (Coordinator - Professor Enrique Ramirez de Arellano), Mexico City, Mexico, January 1999; February 2000; May 2001.

Conferences (some with invited talks)

1. Series of conferences: Modern Methods, Problems and Applications of Operator Theory and Harmonic Analysis, I-IX, Rostov-on-Don, Russia 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 (Organizer and Head of Program Committee, plenary and session speaker).
2. 15th annual conference of Russian-Armenian University, Armenia, December 2019, Yerevan.
3. X International Conference of the Georgian Mathematical Union, Batumi, Georgia, September 2019.
4. The third Caucasian Mathematics Conference (CMC-III), Rostov-on-Don, Russia, 26-29 August 2019 (local organizer, invited speaker).
5. 12th International ISAAC Congress, Aveiro, Portugal June-August 2019.
6. 30th International Workshop on Operator Theory and its Applications, IWOTA 2019, Lisbon, Portugal, June 2019.
7. Conference on Complex Analysis and Mathematical Physics, dedicated to the 70th birthday of A. G. Sergeev, Steklov Mathematical Institute, Moscow, Russia, March 18–22, 2019, invited speaker.
8. 3rd. International conference “Operators in General Morrey-Type Spaces and Applications (OMTSA)”, Kütahya, Turkey, June 2019.
9. The third North-eastern Analysis Meeting (NEAM 2018), SYNY at New Paltz, USA, October 19-21, 2018.
10. Workshop on Analysis and its Applications, American University of Sharjah, United Arab Emirates, 2017 (main speaker).
11. International Conference "Order Analysis and Related Problems of Mathematical Modelling" Tsey, Russia, 3-8 July 2017.
12. VI Russian-Armenian Conference on Mathematical Analysis, Mathematical Physics and Analytical Mechanics, Rostov-on-Don, Russia, September 2016 (local organizer, Head of Organizing Committee and Vice-Head of Program Committee, plenary speaker)
13. Wiener-Hopf Methods, Toeplitz Operators, and Their Applications, Boca del Rio, Veracruz, Mexico, 2015
14. Harmonic Analysis and Approximations, VI, Tsaghkadzor, Armenia, September 2015
15. III Encontro CEAF - Meeting on Functional Analysis and its Applications, Faro, Portugal, 2014.
16. Elsevier International Conference “Ways of development of Russia: from basic research to advanced development”, Moscow, Russia, 2012
17. Symposia on Fourier Series and Applications, Moscow Institute of Physics and Technology, Novorossiysk, Russia, May 2008, June 2010 and June 2012.
18. New information technologies and quality management, Turkey 2011.
19. Petrovskii Memorial Conference, Moscow State University, Moscow, Russia, 2007.
20. 15th. St. Petersburg summer meeting in mathematical analysis,Russian Academy of Sciences, St.Petersburg, Russia, 2006
21. Tikhonov and Contemporary Mathematics, Moscow State University, Moscow, Russia, 2006
22. Analytic Methods of Analysis and Differential Equations, AMADE-2006, Minsk, Belorussia,2006
23. Function spaces, approximation theory, and nonlinear analysis (devoted to the 100 - anniversary of Academician Nikol'skii), Russian Academy of Sciences, Moscow, Russia, 2005
24. Function Spaces, Integral Transform and Applications in PDE, Tbilisi, Georgia, 2005.
25. Harmonic Analysis and Approximations III, Tsaghkadzor, Armenia, September 2005
26. 150 years of Mathematics, University of Washington, St.Louis, USA, 2003
27. 27th Spring Lecture Series, University of Arkansas, Fayetteville, AR, USA, 2002.
28. Joint Mathematics Meetings, San Diego, CA, USA, 2002.
29. International Congress: ISAAC-2001, Berlin, September 2001
30. Fall 2001 “Show Me” Seminar, University of Washington, Saint Louis, MO, USA, 2001.
31. IV Workshop “Analysis: Norte - Sur '01”, CINVESTAV, Mexico, D.F., Mexico, 2001
32. International Workshop on Operator Theory and its Applications, IWOTA-2000, Faro, Portugal, 2000
33. V National Congress of Engineering and Systems, IPN, Mexico, D.F., Mexico, 2000
34. III Workshop "Analysis: Norte - Sur '00", CINVESTAV, Mexico, D.F., Mexico, 2000
35. IV Joint Meeting AMS-SMM, Denton TX, USA. May 1999
36. II Workshop "Analysis: Norte-Sur", Cuernavaca, Mexico, 1999

Organization of international conferences

Modern Methods, Problems and Applications of Operator Theory and Harmonic Analysis: 2011-2020 (annual conferences)	**Initiator, Organizer, Head** of Program and Organizing Committees of the series of the international conferences OTHA: 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, and 2020 – in progress. See webpage http://otha.sfedu.ru/
Third Caucasian Mathematics Conference (CMC-III), 2018	**Local Organizer, Co-chairman** of the Organizing Committee of CMC-III Website: http://www.euro-math-soc.eu/cmc/
VI Russian-Armenian Conference on Mathematical Analysis, Mathematical Physics and Analytical Mechanics, 2016	**Organizer, Vice-chairman** of the Program Committee, Head of Local Organizing Committee. http://rus-arm.sfedu.ru/
Biannual International Symposium "Fourier Series and Their Applications"	**Vice-chair** of the Organizing Committee (since 2010). Biannual conference. Website (in Russian) http://conf-symp.sfedu.ru/symp.html

Participation in industrial innovation and major innovative training program.

Organization	***Title of the Program/Activity***	***Dates and outcome***
Government of the Russian Federation	Member of the Expert Council for the "Open Government", the initiative of the Government of the Russian Federation	01/02/2013-Present. On a voluntary base I am serving as an expert for education, science and innovation governmental legal system initiatives.
School of Management "SKOLKOVO" and Ministry of Education, and Science of the Russian Federation	National (Federal) Program "New leaders of higher education" provided by Moscow School of Management "SKOLKOVO" and Ministry of Science and Education of Russian Federation, RUSSIA.	01/11/2012 – 30/10/2013. Participated in the strategy development for the Net of Federal Universities in Russia.
Tufts University Medford, MA, USA	Program: "The Entrepreneurial Strategies of U.S. Universities: Best Practices and Partnerships for Community Development",	3-7 Dec. 2012. Better knowledge of the US education system best practices.
Internationale Akademie fur Management und Technologie. e.V. (INTAMT), Dusseldorf, GERMANY	Program: "Innovations in the system of higher education in Germany: organization, content and practical implementation of the two-level (Bachelor/Master) system of training and complementary professional education",	27/03/2011-04/04/2011. Better knowledge of the European education and training system best practices.
California State Polytechnic University, Pomona, USA	Program: "Higher Education in the USA: Administration, Technology and Faculty Development",	19-26 January 2009. Better knowledge of the US faculty development practices.
Rostov State University and the Federal Government of the Russian Federation.	National (Federal) training Program: "Forming and retraining of administrators for the national economy of the Russian Federation".	01/10/2003 – 04/04/2004. I defended Diploma on the Business Incubators in Higher Education (EQF Level 7)

Alexey N. Karapetyants

Prizes and Awards.

Russia 2007	The National Team of Professionals. Winner of the national project "The National Team of Professionals" under the heading "Education, Science, Culture" (decision of the Federal Expert Council of 20.10.2007).
Russia 2006 and 2003	Potanyn teaching awards. Teaching awards for young university professors from The Vladimir Potanin Foundation (http://english.fondpotanin.ru/).
Germany 2001	ISAAC research award. Research award for young researchers from ISAAC (International Society for Analysis, its Applications and Computation), Berlin (http://mathisaac.org/c/serverisaac/2007/01.html)
Mexico 2000	Mexican National Researcher Level I (Investigador Nacional de Nivel I). Elected July 2000: award for research and teaching from National Mexican System of Researchers member's # 214

Funding received so far.

1. Two grants from Outreach Lecture Fund, November 2018, aimed to travel support for lecturing activity at US Universities
2. Fulbright research scholarship grant (2018, https://www.cies.org), IIE ID: PS00267032, host researcher-Professor Kehe Zhu, SUNY, Albany, USA.
3. Grant from Ministry of Education and Science of Russian Federation for establishing Regional Mathematical Center, 2018-2020.
4. Grants from ISAAC (International Society for Analysis, its Applications and Computation), 2015, 2016, 2017 (grant holder)
5. Research fellowship grants “Mikhail Lomonosov" and "Mikhail Lomonosov-II" from DAAD (Germany) and Ministry of Science and Education of the Russian Federation. Awarded in 2007 and 2008 (EQF Level 8)
6. Grant from Dmitry Zimin "Dynasty" Foundation, (www.dynastyfdn.com/), 2015 (grant holder)
7. Multiple Grants from the Russian Foundation for Fundamental Research (http://www.rfbr.ru/): 21 grants in total for ten years. This includes research grants on national and international level (cooperation with colleagues from Armenia and Colombia) and grants for conference’s organization (grant holder).
8. Grant from The Presidential Commission for Modernization and Technological Development of Russia's Economy and Moscow State University, Russia, 2011 (leader of research team)
9. Research grant from CONACyT (Mexico). CONACyT # 35521-E, Mexico, 2000-2001
10. Research and teaching grant (monthly salary) from National Mexican System of Researchers (Sistema Nacional de Investigadores), Mexico, 2000-2001 (grant holder)
11. Research fellowship grant: Solomon Lefschetz Research Fellowship, CINVESTAV, Mexico, 1998-2000 (EQF Level 8), (grant holder).

Teaching experience

RUSSIA
2004-Present, Spring 2003, Fall 2002, 1994-1998.
Southern Federal University (until 2006 it was Rostov State University)

General lecture courses (incl. seminars)

1. Mathematical Analysis (two-year course taught for undergraduate half time physics students, undergraduate physics students and undergraduate mathematics students)
2. Differential Equations (one-year course taught for undergraduate physics students and undergraduate mathematics students)
3. Equations of Mathematical Physics, PDE's (one-year course taught for undergraduate physics students and undergraduate mathematics students) - Now teaching
4. Higher Mathematics (one-year course for undergraduate chemistry majors)
5. Probability Theory and Math Statistics (one-year course taught for undergraduate physics students and undergraduate mathematics students).
6. Complex Analysis, Functional Analysis, etc – seminars during various occasions.

Personally developed advanced courses taught

7. Lectures on harmonic analysis (graduate math. students, 1 semester - 34 hrs. total)
8. Theory of distributions (graduate math. students, 1 semester - 34 hrs. total)
9. Theory of interpolation of spaces and operators (grad. math. students, 1 semester - 45 hrs.).
10. Fourier analysis, spaces and singular integrals (grad. math. students, 1 semester - 45 hrs.).
11. Fractional calculus and potential type operators (grad. math. students, 1 semester - 45 hrs.).

Fall 2003: University of Missouri-Columbia, MO

1. Calculus II (Math 175: Fall 2003 - 10 hrs. a week).
2. Mathematical Finance (Math 60: Fall 2003 - 6 hrs. a week).

USA
Teaching in English

2001-2002: University of Arkansas, Fayetteville, AR.

1. Calculus-I (Math 2554: Fall 2001 - 4 hrs. a week).
2. Calculus-II (Math 2564: Spring 2002 - 8 hrs. a week).

MEXICO
Teaching in Spanish

1999-2001: Center for Research and Advanced Studies (CINVESTAV), Mexico D.F.

1. Real Analysis (graduate math. /PhD students, 1 semester - 45 hrs. total). Spring 1999 and Spring 2000.
2. Complex Analysis (graduate math. /PhD students, 1 semester - 45 hrs. total). Fall 2000.

Spring 2001: Metropolitan Autonomous University of Mexico (UAM), D.F.

3. Calculus-I (engineering majors, Spring 2001 - 6 hrs. a week), 2001.

Short term visits with lectures (teaching short special courses).

1. Teaching a short course on elliptic PDE's for PhD students at Mathematics Department of University of Helsinki, Helsinki, Finland, May 2019.
2. Teaching a short course on Morrey spaces for PhD students at Mathematics Department of University of Padova, Padova, Italy, November. 2019.
3. Teaching a short course on elliptic PDE's for PhD students at Mathematics Department of University of Padova, Padova, Italy, Feb. 2018.
4. Teaching a special course for PhD students at Mathematics Department of University of Padova, Padova, Italy, Feb. - March 2017.
5. Teaching a special course on Erasmus+ program at the Mathematics Department, University of Vilnius, Lithuania, May 2016.
6. Teaching a special course (in Spanish) for PhD students at the Center for Research and Advanced Studies of the Mexican National Polytechnic Institute (CINVESTAV), Campus Queretaro, Mexico, November 2016.
7. Teaching a special course (in Spanish) on interpolation of Banach spaces and operators for faculty members and PhD students at the Mathematics Department of Autonomous University of Mexico, May-June 2001, Mexico City, Mexico.