Kristina Oganesyan

PhD Student

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	Work and education
2022-pres	Laboratory "High-dimensional approximation and applications", Russia, link.
2020-pres	Moscow Center for fundamental and applied mathematics , Lomonosov Moscow State University, Russia.
2019-pres	PhD Student , Centre de Recerca Matemàtica and Universitat Autónoma de Barcelona, Spain.
2019-pres	PhD Student, Lomonosov Moscow State University, Russia.
2013-2019	MSc in Mathematics, Lomonosov Moscow State University, Russia.
	Research Interests
	Harmonic analysis, Number theory, Combinatorics
	Publications
03/2023	K. Oganesyan, "Bounds for the number of multidimensional partitions", <u>arxiv</u> .
01/2023	M. I. Dyachenko, K. A. Oganesyan, "Counterexamples to the Hardy–Littlewood theorem for generalized monotone sequences", Math. Notes, 113(3) (2023), 458–463, <u>DOI</u> .
09/2022	K. Oganesyan, "Two-dimensional Hardy-Littlewood theorem for functions with general monotone Fourier coefficients", <u>arXiv</u> .
08/2022	K. Oganesyan, "Cosine polynomials with restrictions on their algebraic representation", J. Approx. Theory, 281—282 (2022), 105802, <u>DOI</u> , <u>arXiv</u> .
07/2021	K. Oganesyan, "John-Nirenberg inequality for Riemann type series", <u>arXiv</u> .
01/2021	K. Oganesyan, "Uniform convergence criterion for non-harmonic sine series", Sb. Math., 212(1) (2021), 70–110, <u>DOI</u> , <u>arXiv</u> .
10/2020	K. Oganesyan, "The sets of positivity of sine series with monotone coefficients", Acta Math. Hungar., 162(2) (2020), 705–721, DOI.
03/2020	K. Oganesyan, "A functional inequality for sine series", Math. Notes, 107(3) (2020), 531–533, DOI.
04/2018	K. Oganesyan, "The measure of the set of zeros of the sum of a nondegenerate sine series with monotone coefficients in the closed interval $[0, \pi]$ ", Math. Notes, 103(4) (2018), 621–625, DOI.
01/2018	K. Oganesyan, "Generalized double Fourier sine series", Moscow Univ. Math. Bull., 73(1) (2018), 9–16, <u>DOI</u> .

Conference talks

- 11/2022 **Second conference of international mathematical centers**, Lomonosov Moscow State University, Russia.
- 08/2022 Applied functional analysis, Banff International Research Station, Mexico.
- 08/2021 Conference of international mathematical centers, Sochi, Russia
- 01/2021 Modern methods of theory of functions and related problems, Voronezh, Russia.
- 11/2020 Möbius Contest, Independent University of Moscow, Russia.
- 01/2020 Modern problems of theory of functions and their applications, Saratov, Russia.
- 11/2019 Möbius Contest, Independent University of Moscow, Russia.
- 05/2019 **Modern problems of mathematics and mechanics**, Lomonosov Moscow State University, Russia.

Seminar talks

- 03/2023 Barcelona analysis seminar, Centre de Recerca Matemàtica, Spain.
- 11/2022 **Seminar on theory of functions of a real variable**, Lomonosov Moscow State University, Russia.
- 11/2022 Harmonic analysis seminar, Centre de recherches mathématiques, Canada.
- 11/2021 Barcelona analysis seminar, Centre de Recerca Matemàtica, Spain.
- 11/2020 **Seminar on theory of functions of a real variable**, Lomonosov Moscow State University, Russia.
- 04/2020 **Modern problems of number theory**, Steklov Mathematical Institute of Russian Academy of Science, Russia.
- 03/2020 **Seminar on theory of functions of a real variable**, Lomonosov Moscow State University, Russia.
- 03/2018 **Seminar on geometrical approximation theory**, Lomonosov Moscow State University, Russia.
- 03/2018 Seminar on theory of orthogonal and trigonometric series, Lomonosov Moscow State University, Russia.
- 11/2017 **Seminar on theory of functions of a real variable**, Lomonosov Moscow State University, Russia.
- 04/2017 **Seminar on theory of orthogonal and trigonometric series**, Lomonosov Moscow State University, Russia.

Conferences and research programs

- 11/2022 Second conference of international mathematical centers, Moscow, Russia.
- 07/2022 Complex Analysis, Spectral Theory and Approximation meet in Linz, Linz, Austria.
- 06/2022 **Hypatia Graduate Summer School**, Centre de Recerca Matemática, Barcelona, Spain.
- 06/2022 Workshop on harmonic analysis and related topic, Barcelona, Spain.

- 06/2022 **11th International Conference on Harmonic Analysis and Partial Differential Equations**, El Escorial, Spain.
- 09-12/2021 Research in pairs program, Centre de Recerca Matemática, Barcelona, Spain.
 - 08/2021 Conference of international mathematical centers, Sochi, Russia.
 - 01/2021 Modern methods of theory of functions and related problems, Voronezh (online), Russia.
 - 01/2020 Modern problems of theory of functions and their applications, Saratov, Russia.
 - 06/2019 Approximation, sampling, and compression in high dimensional problems, Cambridge, United Kingdom.

Awards and Distinctions

- 2021 Winner of the Prize for young mathematicians of Russia, Sochi, Russia.
- 2020 Winner of the XXIV Möbius Contest, Moscow, Russia.
- 2019 Second prize in the Russian Competition of Theses in Mathematics, Nizhny Novgorod, Russia.
- 2017 First prize in the International Mathematics Competition for University Students (IMC), Blagoevgrad, Bulgaria.
- 2015, 2018 Second prize in the International Mathematics Competition for University Students (IMC), Blagoevgrad, Bulgaria.
 - 2013 Medalist of the Russian National olympiad in Mathematics (top 35 in Russia), Sarov, Russia.

Grants

- 2022-pres Russian Science Foundation, no. 22-21-00545.
- 2021-pres Russian Science Foundation, no. 21-11-00131.
- 2022-2023 Russian Federation Governmental Scholarship.
- 2019-pres Foundation for the Advancement of Theoretical Physics and Mathematics "BASIS", no. 19-8-2-28-1 (PI).
 - 2021 Prize for young mathematicians of Russia (PI).
 - 2021 Scholarship of Lomonosov Moscow State University for considerable achievements in science.
 - 2021 Visiting grant, Centre de Recerca Matemática, Barcelona, Spain.
 - 2020 Möbius Contest Foundation (PI).
 - 2020 Shafarevich individual scholarship (PI).
 - 2019 Visiting grant, Isaac Newton Institute, Cambridge, United Kingdom.
- 2017-2018 Russian Foundation for Basic Research, no. 16-01-00350.
- 2015-2019 Scholarship for top 10% of students in Lomonosov Moscow State University.
 - 2015 Russian Federation Presidential Prize for talented young people.
 - 2014 Scholarship of the Governor of Moscow region.

Teaching and related activities

- 2018-pres Teacher of olympiad mathematics.
- 2014-pres Jury member of the Moscow Mathematical Olympiad.
- 2013-2014 Jury member of the International Mathematical Tournament of Towns.
- 2013-2016 Organizer of the DAFE MIPT Cup in Mathematics and the Intellectual All-around in Zhukovsky.

Languages

Russian Native English Fluent Portuguese Fluent Spanish Intermediate