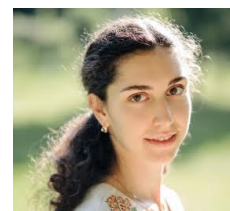


Curriculum Vitae

Kateryna Pozharska (Shvai)

Personal

Date of birth – 04.03. 1994
Place of birth — Lutsk, Ukraine
Nationality – Ukrainian
Marital status – married, 1 child (2022)



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Address

Faculty of Mathematics
Chemnitz University of Technology
Reichenhainer Str. 39, 09107 Chemnitz, Germany

Theory of Functions Department
Institute of Mathematics
National Academy of Sciences of Ukraine
Tereshchenkivska Str. 3, 01024 Kyiv, Ukraine

Education

- | | |
|-----------|--|
| 2015–2018 | PhD, Institute of Mathematics of the NAS of Ukraine,
Theory of Functions Department, Kyiv, Ukraine |
| 2014–2015 | Master's degree, Lesya Ukrainka Eastern European
National University, Faculty of Mathematics, Lutsk,
Ukraine (speciality “Mathematics”, master's degree
with honours) |
| 2010–2014 | Bachelor's degree, Lesya Ukrainka Eastern European
National University, Faculty of Mathematics, Lutsk,
Ukraine (speciality “Mathematics”, bachelor's degree
with honours) |

PhD thesis “Best approximations and entropy numbers of the classes of periodic multivariate functions”
Speciality – Mathematical analysis
Supervisor – Prof. Dr. Romanyuk A.S.
Diploma issued on 05.03.2019

Languages Ukrainian (native), Russian (fluent), English (fluent), German (Telc B2)

Research interests

Approximation, recovery and learning: finding error bounds (both asymptotic and preasymptotic) for recovery of classes and individual functions from incomplete data, as standard (function values, samples) or linear information, when using different algorithms (linear, nonlinear); comparison of efficiency and complexity of decoders (known as **information-based complexity**).

Discretization: developing methods for construction of exact Marcinkiewicz-Zygmund inequalities, quadrature formulas and tight frames.

Compressed sensing and sparse recovery: developing and investigating data sparsification techniques; recovery of vectors and functions using nonlinear decoders, in particular, rLASSO (square-root least absolute shrinkage and selection operator), OMP (orthogonal matching pursuit), etc.

Scholarships and awards

2025	Grant of the National Academy of Sciences of Ukraine for research groups of young scientists of NAS of Ukraine
2024	Award of the Supreme Council of Ukraine for young scientists
2024	The Best Talk Award at the Conference of young scientists “Pidstryhach readings – 2024”, Lviv, Ukraine
2023	“Young researcher of the year” Award in the nomination “Scientific cooperation” (all-Ukrainian competition)
2023	“Talent, inspiration, work” Award of the National Academy of Sciences of Ukraine
2023	Joseph F. Traub Information-Based Complexity Young Researcher Award
2022	Scholarship of the Philipp Schwartz Initiative of the Alexander von Humboldt Foundation
2021	Award of the President of Ukraine for young scientists
2020	Scholarship of the National Academy of Sciences of Ukraine for young scientists
2020	Grant of the National Academy of Sciences of Ukraine for research groups of young scientists of NAS of Ukraine
2011–2015	During the university studies: <ul style="list-style-type: none">- scholarships of the President of Ukraine, Supreme Council of Ukraine, Fund “Only Together” by Igor Palytsia, Myhaylo Kravchuk scholarship for talented students;- winner of the All-Ukrainian Competition-Defence of Students Research Works (twice: Vinnytsia, Ivano-Frankivsk);- 3rd place in the All-Ukrainian Students Olimpiad in mathematics (twice, Lviv)

Positions and working experience

03.2025–present	Postdoctoral researcher, Group of Prof. Dr. Tino Ullrich. Within the DFG project № 403/4-1. Chemnitz University of Technology, Germany.
12.2021–present	Researcher, Group of Prof. Dr. Anatolii Romanyuk. Institute of Mathematics of the NAS of Ukraine, Kyiv.
09.2022–02.2025	Postdoctoral researcher, Group of Prof. Dr. Tino Ullrich. Within the scholarship from the Philipp Schwartz Initiative of the Alexander von Humboldt Foundation.
10.2020–01.2022	Senior Lecturer , Department of Mathematical Analysis and Statistics, Faculty of Information Technology and Mathematics, Lesya Ukrainka Volyn National University, Lutsk, Ukraine. Teaching of the courses “Selected questions in elementary mathematics” and “Differential geometry” for bachelor students (both lectures and exercises). Supervision of two master’s theses.
09.2019–01.2020	Invited researcher, Group of Prof. Dr. Tino Ullrich. Chemnitz University of Technology, Germany.
11.2018–12.2021	Junior researcher, Group of Prof. Dr. Anatolii Romanyuk. Institute of Mathematics of the NAS of Ukraine.
09.2017–12.2019	Junior researcher, Ukr. State Budget Theme “Extremal Problems of Approximation Theory in Functional Spaces”.

Plenary talks

Planned for 2026	Conference “Foundations of Computational Mathematics”, Vienna, Austria (semi-plenary speaker at the Information-Based Complexity Workshop).
Planned for 2026	17th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, University of Edinburgh, Scotland (plenary speaker).
04.2025	Workshop on Approximation Theory and Fast Algorithms dedicated to the 65th birthday of Prof. Dr. Jürgen Prestin and 70th birthday of Prof. Dr. Winfried Sickel, Hasenwinkel, Germany (plenary speaker).
09.2024	6th Workshop on Sparse Grids and Applications, Bonn, Germany (plenary speaker).

Selected and invited talks

- Planned for 2026 International Centre for Mathematics in Ukraine Winter School “Constructive Approximation and its Applications”, Yablunytsya village, Ivano-Frankivsk Region, Ukraine (**lecturer**).
- 07.2025 15th International Conference on Monte Carlo Methods and Applications, Illinois Institute of Technology, Chicago, USA (invited by Prof. Dr. Stefan Heinrich, Dr. Larisa Yaroslavtseva and Prof. Dr. Thomas Müller-Gronbach to the Special Session “Stochastic Computation and Complexity”).
- 03.2025 SIAM Conference on Computational Science and Engineering, Fort Worth, Texas, U.S. (invited by Prof. Dr. Jochen Garcke and Dr. Guannan Zhang for the Minisymposium “Sparse Grids and Applications”).
- 08.2024 16th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, University of Waterloo, Canada (invited by Prof. Dr. Stefan Heinrich, Dr. Larisa Yaroslavtseva and Prof. Dr. Thomas Müller-Gronbach to the Special Session “Stochastic Computation and Complexity”).
- 09.2023 Workshop “From Modeling and Analysis to Approximation and Fast Algorithms” within the VolkswagenStiftung project “From Modeling and Analysis to Approximation”, Hasenwinkel, Germany (invited by Prof. Dr. Jürgen Prestin).
- 08/09.2023 Dagstuhl-Seminar 23351 “Algorithms and Complexity for Continuous Problems”, Schloss Dagstuhl, Leibniz-Zentrum für Informatik, Germany (invited by Prof. Raimund Seidel, Prof. Dr. Dmitriy Bilyk, Prof. Dr. Michael Gnewuch, Dr. Jan Vybíral, and Dr. Larisa Yaroslavtseva).

Teaching experience

10.2020–01.2022 **Senior lecturer at the Department of Mathematical Analysis and Statistics, Faculty of Information Technology and Mathematics, Lesya Ukrainka Volyn National University, Lutsk, Ukraine.**

I taught the courses “Selected questions in elementary mathematics” and “Differential geometry” for bachelor students (lectures and exercises, on- and offline), supervised two master’s theses.

Further duties:

- developing the studying program,
- preparing learning materials and tests,
- taking the students’ exams,
- consulting bachelor students on how to prepare a conference talk and make a grant application (both master students participated at the XV International scientific and practical conference of young scientists “Young science of Volyn: priorities and perspectives of research” in 2021 and presented their works),
- organizing and moderating lectures by researchers from the Institute of Mathematics of the National Academy of Sciences of Ukraine (Kyiv) for students of Lesya Ukrainka Volyn National University (Lutsk) within the “guest professor” program.
- helping by the accreditation process of three specialties: “Bachelor of mathematics”, “Master of mathematics: secondary education”, “Master of mathematics: mathematician”.

2023–2025 **I was involved in the exercises by Prof. Dr. Tino Ullrich to the special courses at TU Chemnitz:**

- Modern approximation theory – compressed sensing
- Mathematical introduction to learning theory.

List of publications

- 2026 (1) D. Krieg, K. Pozharska, M. Ullrich, T. Ullrich, *Sampling projections in the uniform norm*, J. Math. Anal. Appl. 551, No. 2, 129873 (2026).
- 2025 (2) K.V. Pozharska, A.S. Romanyuk, S.Ya. Yanchenko, *Estimates of characteristics of nonlinear approximation of classes of periodic functions of many variables*, Carpathian Math. Publ., 17, 447-460 (2025).
- (3) K.V. Pozharska, A.S. Romanyuk, *Estimates for the approximation characteristics of the Nikol'skii-Besov classes of functions with mixed smoothness in the space $B_{q,1}$* , Math. Nachr. 298, No. 9, 3114-3134 (2025).
- (4) M. Moeller, K. Pozharska, T. Ullrich, *Instance optimal function recovery – samples, decoders and asymptotic performance*, arXiv:2503.16209.
- (5) D. Krieg, K. Pozharska, M. Ullrich, T. Ullrich, *Sampling recovery in L_2 and other norms*, Math. Comp., in print. (arXiv:2305.07539)
- (6) M. Moeller, K. Pozharska, T. Ullrich, *Sampling designs for function recovery – theoretical guarantees, comparison and optimality*, MCQMC24 Proceedings, in print.
- 2024 (7) F. Bartel, L. Kämmerer, K. Pozharska, M. Schäfer, T. Ullrich, *Exact discretization, tight frames and recovery via D -optimal designs*, arXiv:2412.02489. (Accepted to SMAI J. Comp. Math.)
- (8) K. Pozharska, A. Romanyuk, *The best m -term trigonometric approximations of the classes of periodic functions of one and many variables in the space $B_{q,1}$* , Res. Math. 32, No. 2 (2024).
- (9) K. Pozharska *Estimates of characteristics of nonlinear approximation of classes of periodic functions*, In: Actual problems of modern mathematics: methods, models and applications. Proceedings of the Institute of Mathematics of the NAS of Ukraine 21, No. 1, 149–168 (2024). (in Ukrainian)

- (10) K.V. Pozharska, A.S. Romanyuk, V.S. Romanyuk, *Widths and entropy numbers of the classes of periodic functions of one and several variables in the space $B_{q,1}$* , Carpathian Math. Publ. 16, No. 2, 351-366 (2024).
- (11) K.V. Pozharska, A.S. Romanyuk, S.Ya. Yanchenko, *Best approximations for classes of periodic functions of many variables with bounded dominating mixed derivative*, Ukr. Math. J. 76, No. 7, 1007-1023 (2024).
- 2023 (12) A. Romanyuk, V. Romanyuk, K. Pozharska, S. Hem-bars'ka, *Characteristics of linear and nonlinear approximation of isotropic classes of periodic multivariate functions*, Carpathian Math. Publ. 15, No. 1, 78-94 (2023).
- 2022 (13) K. Pozharska, T. Ullrich, *A note on sampling recovery of multivariate functions in the uniform norm*, SIAM J. Numer. Anal. 60, No. 3, 1363-1384 (2022).
- (14) O. Shvai, K. Pozharska, *On some approximation properties of Gauss-Weierstrass singular operators*, J. Math. Sci. 260, No. 5, 693-699 (2022).
- 2021 (15) A. A. Pozharskyi, K. V. Pozharska, *Recovery of continuous functions of two variables from their Fourier coefficients known with error*, Carpathian Math. Publ. 13, No. 3, 676-686 (2021).
- 2020 (16) K. V. Pozharska, A. A. Pozharskyi, *Recovery of continuous functions from their Fourier coefficients known with error*, Res. Math. 28, No. 2, 24-34 (2020).
- (17) I. V. Kal'chuk, YU. I. Kharkevych, K. V. Pozharska, *Asymptotics of approximation of functions by conjugate Poisson integrals*, Carpathian Math. Publ. 12, No. 1, 138-147 (2020).
- 2019 (18) K. V. Pozharska, *Entropy numbers of the Nikil'skii - Besov-type classes of periodic functions of many variables*, J. of Math. Sci. 241, No. 1, 64-76 (2019).
- (19) K. V. Pozharska, *Estimates for the entropy numbers of the classes $B_{p,\theta}^\Omega$ of periodic multivariable functions in the uniform metric*, Ukr. Math. J. 70, No. 9, 1439-1455 (2019).

- 2018 (20) K. V. Shvai, *Estimation of the best bilinear approximations for the classes of (ψ, β) -differentiable periodic multivariable functions*, Ukr. Math. J. 70, No. 4, 649–660 (2018).
- (21) Yu. I. Kharkevych, K. V. Pozharska, *Asymptotics of approximation of conjugate functions by Poisson integrals*, Acta et Commentationes Universitatis Tartuensis de Mathematica. 22, No. 2, 235–243 (2018).
- 2017 (22) K. V. Pozharska, *Estimates of the best M -term trigonometric approximations of the classes $L_{\beta,p}^{\psi}$ of periodic multivariate functions of small smoothness in the space L_q* , In: Differential equations and related questions of analysis. Proceedings of the Institute of Mathematics of the NAS of Ukraine 14, No. 3, 293–318 (2017). (in Ukrainian)
- (23) K. V. Shvai, *The best M -term trigonometric approximations of the classes of periodic multivariate functions with bounded generalized derivative in the space L_q* , J. Math. Sci. 222, No. 6, 750–761 (2017).
- 2016 (24) K. V. Shvai, *The best M -term trigonometric approximations of classes of (ψ, β) -differentiable periodic multivariate functions in the space L_q* , J. Num. Appl. Math. 122, No. 2, 83–91 (2016).
- (25) K. V. Shvai, *Estimates of the best orthogonal trigonometric approximations of the generalized multivariate analogues of Bernoulli kernels and classes $L_{\beta,1}^{\psi}$ in the space L_q* , In: Differential equations and related questions of analysis. Proceedings of the Institute of Mathematics of the NAS of Ukraine 13, No. 1, 300–320 (2016). (in Ukrainian)

Additional information

Short research visits

- | | |
|-------------------|--|
| 15-19.06.2024 | Technical University of Munich. Research with Dr. Frank Filbir (by invitation). |
| 23.03.19-24.04.19 | Institute of Mathematics, University of Lübeck, Germany. Visit in the framework of H2020-MSCA-RISE-2014 Project number 645672 (AMMODIT). Research with Prof. Dr. Juergen Prestin. |
| 13.11.18-20.12.18 | Institute of Mathematics, University of Lübeck, Germany. Visit in the framework of H2020-MSCA-RISE-2014 Project number 645672 (AMMODIT). Research with Prof. Dr. Juergen Prestin. |
| 01.08.18-31.08.18 | Johann Radon Institute for Computational and Applied Mathematics (RICAM), Austrian Academy of Sciences, Austria. Visit in the framework of H2020-MSCA-RISE-2014 Project number 645672 (AMMODIT). Research with Prof. Dr. Sergei Pereverzyev. |

Professional activity

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| From 2025 | Associate Editor of the Journal of Complexity. |
| 2024–2026 | Member of the Award committee for the Joseph F. Traub Information-Based Complexity Young Researcher Award. |
| 2023 | Established the ERASMUS+ partnership for student's exchange between Chemnitz University of Technology and Lesya Ukrainka Volyn National University (for academic years 2023/2024 – 2024–2026). |
| 2019–2022 | Member of the Council of Young Scientists, Institute of Mathematics of the NAS of Ukraine. |
| 2019–2021 | Member of the Council of Young Scientists, Lesya Ukrainka Volyn National University, Lutsk, Ukraine. |

Membership in associations

- | | |
|--------------|--|
| 2025–present | Member of the Society for Industrial and Applied Mathematics (SIAM). |
| 2024–present | Member of the European Mathematical Society. |

2024–present	Member of the European Women in Mathematics Association.
2024–present	Member of the Association for Women in Mathematics.
2019–present	Member of the Marie Curie Alumni Association.

Organization of conferences and special sessions

18.08.24-23.08.24	Organizer of two Special Sessions “Function recovery and discretization problems” in the 16th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, University of Waterloo, Canada
06.06.22-10.06.22	International Conference “Theory of Approximation of Functions and its Applications”, dedicated to the 80th anniversary of the Corresponding Member of the NAS of Ukraine, Prof. A. Stepanets (1942-2007), Lutsk, Ukraine (Scientific Secretary)
03.06.21-05.06.21	International Conference of Young Mathematicians, Kyiv, Ukraine (Member of the Program Committee)
20.06.19-26.06.19	International Conference “Functional Methods in Approximation Theory, Differential Equations and Numerical Mathematics IV” dedicated to the 100th anniversary of V. K. Dzyadyk (1919-1998), Svityaz', Volyn region, Ukraine (Scientific Secretary)
06.06.19-08.06.19	International Conference of Young Mathematicians, Kyiv, Ukraine (Member of the Organizing Committee)
18.03.19-22.03.19	Final AMMODIT Conference “Mathematics for life sciences”, Kyiv, Ukraine (Member of the Local Organizing Committee)
02.09.18-04.09.18	Coordination meeting of the planned project “Spectral optimization: From Mathematics to Engineering and Life Sciences” (SOMELS), Kyiv, Ukraine (Member of the Local Organizing Committee)
07.06.17-10.06.17	International Conference of Young Mathematicians in honor of the 100th anniversary of Academician of NASU, Prof. Yu. O. Mitropolskiy, Kyiv, Ukraine (Member of the Local Organizing Committee)

Learning materials

O. L. Shvai, K. V. Pozharska, Methodical recommendations for solving the problems on the discipline “Computer discrete mathematics”, Lutsk, Lesya Ukrainka Volyn National University, 2020, 65 pp.

O. L. Shvai, K. V. Pozharska, Lecture notes on the discipline “Computer discrete mathematics”, Lutsk, Lesya Ukrainka Volyn National University, 2020, 55 pp.

O. L. Shvai, K. V. Pozharska, Collection of tests on the discipline “Computer discrete mathematics”, Lutsk, Lesya Ukrainka Volyn National University, 2020, 52 pp.

Seminar talks

21.06.2024	Research Seminar Function Spaces, Faculty of Mathematics and Computer Science, University of Jena, Germany
08.01.2024	Joint seminar of the Technical University of Munich and the Helmholtz Center Munich, Germany
10.10.2023	Research seminar Applied Analysis, Institute of Mathematics, Osnabrück University, Germany
09.08.2023	Faculty of Mathematics, Chemnitz University of Technology, Germany
29.09.2021	Point Distributions Webinar, online
09.09.2021	Seminar within the EU Project SOMPATY (“Spectral Optimization: From Mathematics to Physics and Advanced Technology”), online
13.05.2021	Oles Honchar Dnipro National University, Ukraine
04.03.2020	Faculty of Mathematics, Chemnitz University of Technology, Germany
28.05.2019	Faculty of Mathematics, Chemnitz University of Technology, Germany
28.11.2018	Institute of Mathematics, University of Lübeck, Germany
27.09.2018	Taras Shevchenko National University of Kyiv, Ukraine

Multiple times Institute of Mathematics of NAS of Ukraine, Ukraine

Conferences and workshops

- 28.07.25-01.08.25 15th International Conference on Monte Carlo Methods and Applications, Illinois Institute of Technology, Chicago, USA (**Invited speaker** at the Special Session)
- 09.06.25-11.06.25 Workshop: Approximation and learning in high dimensions, CRM, Université de Montréal, Montreal, Canada
- 02.06.25-06.06.25 Conference on Modern trends in Fourier analysis, CRM, Barcelona, Spain
- 26.05.25-30.05.25 Advanced Course on Modern aspects of Fourier analysis, CRM, Barcelona, Spain
- 19.05.25-22.05.25 Constructive Functions 2025 in conjunction with the 37th Shanks Lecture Celebrating Ed Saff's 80th birthday, Vanderbilt University, Nashville, Tennessee, U.S.A.
- 12.05.25-16.05.25 Workshop within the framework of the HORIZON-2020 project SOMPATY-2025 (online, **invited speaker**)
- 12.05.25 **EWM May12 event. Celebrating Women in Mathematics** (online)
- 07.04.25-11.04.25 Workshop on Approximation Theory and Fast Algorithms dedicated to the 65th birthday of Prof. Dr. Jürgen Prestin and the 70th birthday of Prof. Dr. Winfried Sickel, Hasenwinkel, Germany (**Plenary speaker**)
- 03.04.25-04.04.25 **Philipp Schwartz Forum, Berlin, Germany** (Poster)
- 21.03.25-22.03.25 **Marie Curie Alumni Association (MCAA) Annual Conference and General Assembly**, Krakow, Poland (Lightning talk)
- 03.03.25-07.03.25 SIAM Conference on Computational Science and Engineering (CSE25), Fort Worth, Texas, U.S.A. (**Invited speaker** at the Special Session)
- 17.01.25-18.01.25 34. Rhein-Ruhr-Workshop über Angewandte Mathematik, Approximationstheorie und Numerische Mathematik, Bestwig (Sauerland), Germany
- 10.09.24-13.09.24 6th Workshop on Sparse Grids and Applications, Bonn, Germany (**Plenary Speaker**)

- 18.08.24-23.08.24 16th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, University of Waterloo, Canada (Co-organizer of two Special Sessions, **Invited speaker** at the Special Session)
- 29.07.24-02.08.24 2nd Analysis Mathematica Conference, Budapest, Hungary
- 23.07.24-25.07.24 Siegmundsburg Workshop, Germany (poster)
- 26.06.24-28.06.24 10th International Conference on Mathematical Methods for Curves and Surfaces, Oslo, Norway
- 09.06.24-15.06.24 More on Harmonic Analysis, Strobl, Austria
- 27.05.24-29.05.24 The conference of young scientists “Pidstryhach readings – 2024”, Lviv, Ukraine (online)
- 18.09.23-22.09.23 Workshop and Summer School on Applied Analysis 2023, Chemnitz, Germany
- 02.09.23-06.09.23 Workshop “From Modeling and Analysis to Approximation and Fast Algorithms”, Hasenwinkel, Germany
- 27.08.23-01.09.23 Dagstuhl-Seminar 23351 “Algorithms and Complexity for Continuous Problems”, Schloss Dagstuhl, Leibniz-Zentrum für Informatik, Germany (**by invitation only**)
- 19.06.23-21.06.23 Foundations of Computational Mathematics (FoCM) 2023, Paris, France
- 01.06.23-03.06.23 International Conference of Young Mathematicians, Kyiv, Ukraine (online)
- 21.06.21-25.06.21 9th International Online Conference on “Mathematical Analysis, Differential Equation & Applications MADEA 9”, Bishkek, Kyrgyz Republic
- 16.06.21-18.06.21 Contemporary Analysis and Its Applications. Satellite event of the 8th European Congress of Mathematics, Portorož, Slovenia (online)
- 03.06.21-05.06.21 International Conference of Young Mathematicians, Kyiv, Ukraine (online)
- 26.05.21-28.05.21 Conference of Young Scientists “Pidstryhach readings – 2021”, Lviv, Ukraine (online)

- 12.05.21-13.05.21 International research and practice conference of post-graduate students and students “Young science of Ukraine: priorities and perspectives of research”, Lutsk, Ukraine
- 19.03.21-21.03.21 International Online Workshop on Approximation Theory, Ivano-Frankivsk, Ukraine
- 01.12.20-03.12.20 3rd BYMAT Conference, Valencia, Spain
- 26.10.20-30.10.20 11th International Skorobohatko Mathematical Conference, Lviv, Ukraine
- 16.09.20-19.09.20 International conference dedicated to the 100th anniversary of M. P. Korneichuk (1920-2003), Dnipro, Ukraine
- 26.05.20-28.05.20 Conference of Young Scientists “Pidstryhach Readings – 2020”, Lviv, Ukraine
- 21.05.20-22.05.20 International research and practice conference of young scholars, postgraduates and bachelor students “Challenges and opportunities of modern science”, Rivne, Ukraine
- 04.03.20-08.03.20 Workshop “Analytical Modeling and Approximation Methods” , A meeting within the VolkswagenStiftung project “From Modeling and Analysis to Approximation”, Berlin, Germany
- 23.09.19-27.09.19 Chemnitz Summer School on Applied Analysis 2019 Faculty of Mathematics of the Chemnitz University of Technology, Germany
- 20.06.19-26.06.19 International Conference “Functional Methods in Approximation Theory, Differential Equations and Numerical Mathematics IV” dedicated to the 100th anniversary of V. K. Dzyadyk (1919–1998), Svityaz', Ukraine
- 06.06.19-08.06.19 International Conference of Young Mathematicians, Kyiv, Ukraine
- 18.03.19-22.03.19 Final AMMODIT Conference “Mathematics for life sciences”, Kyiv, Ukraine
- 17.09.18-19.09.18 International Scientific Conference “Modern problems of mathematics and its application in natural sciences and information technologies” in honor of the 50th

- anniversary of the Faculty of Mathematics and Informatics, Chernivtsi, Ukraine
- 22.05.18-25.05.18 International Conference “Modern Problems of Mechanics and Mathematics” dedicated to 90th anniversary of Ya. S. Pidstryhach, Academician of NASU and 40th anniversary of the Institute for Applied Problems of Mechanics and Mathematics of NASU, Lviv, Ukraine
- 19.03.18-23.03.18 4th AMMODIT Conference, Malekhiv (Lviv region), Ukraine
- 07.06.17-10.06.17 International Conference of Young Mathematicians in honor of the 100th anniversary of Academician of NASU, Prof. Yu. O. Mitropolskiy, Kyiv, Ukraine
- 28.05.17-03.06.17 International Conference “Theory of approximation of functions and its applications” in honor of the 75th anniversary of Alexander Stepanets, Doctor of Sciences, Professor, Corresponding Member of NASU, Slovyansk, Ukraine
- 23.05.17-25.05.17 Conference of Young Scientists “Pidstryhach Readings – 2017”, Lviv, Ukraine
- 22.02.17-25.02.17 All-Ukrainian Scientific Conference “Modern problems of probability theory and mathematical analysis”, Vorokhta, Ukraine
- 26.01.17-30.01.17 3rd Conference “Approximation Methods for Molecular Modelling and Diagnosis Tools” (AMMODIT), Kyiv, Ukraine
- 01.08.16-14.08.16 XI Summer School “Algebra, Topology, Analysis”, Odessa, Ukraine
- 25.05.16-27.05.16 Conference of Young Scientists “Pidstryhach Readings – 2016”, Lviv, Ukraine

Articles in the “Encyclopedia of Modern Ukraine”

- 2020 “Approximation theory”
http://esu.com.ua/search_articles.php?id=71385
- 2021 “Inequality”
https://esu.com.ua/search_articles.php?id=74501

Selected interviews and references

Interview for TSN 1+1 (main Ukrainian daily news TV program)

News on the Ukrainian Mathematical Community webpage

News in the Notices of the American Mathematical Society

News on the Chemnitz University of Technology webpage

Interview for MAN Platform (Junior Academy of Sciences of Ukraine)

Interview for Lesya Ukrainka National University

Interview for MAN Platform (Junior Academy of Sciences of Ukraine)

Note in Algebra 8 schoolbook (material on p. 230)