

CURRICULUM VITAE

Surname: Vaneeva

Name: Olena

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Address: Department of Mathematical Physics
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Date of Birth: 28.06.1982

Citizenship: Ukraine

Field of Research: Mathematical physics, group-theoretical analysis of nonlinear differential equations (DEs); Lie algebras; equivalence groupoids; symmetry, reduction and exact solutions of nonlinear DEs; potential and nonclassical symmetries of DEs; conservation laws of DEs; point transformations and equivalence problems in classes of DEs.

Academic title: Senior Researcher (analogue of Associate Professor title), received 2018.

Academic degrees:

Dr.Sc. in Mathematical Physics (analogue of Dr. Habilitat), Institute of Mathematics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine (2020)

Dr.Sc. thesis: Equivalence groupoids in group classification problems
(Consultant: Prof. R.O. Popovych)

Ph.D. in Mathematical Physics, Institute of Mathematics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine (2008)

Ph.D. thesis: Group classification and nonclassical symmetries of reaction–diffusion equations (Supervisor: Prof. R.O. Popovych)

M.Sc. in Math. Oles Honchar Dnipropetrovsk National University, Ukraine (2004)

Master thesis: Nonlocal symmetries of the Born–Infeld equation (Supervisor: Prof. V.A. Tychynin)

B.Sc. in Math. Oles Honchar Dnipropetrovsk National University, Ukraine (2003)

Bachelor thesis: The solution of heat conductivity problem in a cylindrical pipe with given temperature on boundaries (Supervisor: Prof. V.A. Ostapenko)

Professional experience:

since 2013 Senior Researcher at the Department of Applied Research of the Institute of Mathematics of the National Academy of Sciences of Ukraine

2010 – 2013 Researcher at the Department of Applied Research of the Institute of Mathematics of the National Academy of Sciences of Ukraine

2007 – 2010 Junior Researcher at the Department of Applied Research of the Institute of Mathematics of the National Academy of Sciences of Ukraine

Education:

09.2015–08.2018 Post-doctoral study at the Department of Mathematical Physics of the Institute of Mathematics of the National Academy of Sciences of Ukraine (Consultant: Professor R.O. Popovych)

11.2004–10.2007 Post-graduate study at the Department of Applied Research of the Institute of Mathematics of the National Academy of Sciences of Ukraine (Supervisor: Professor R.O. Popovych)

09.1999–06.2004 Dnipropetrovsk National University, Faculty of Mathematics and Mechanics, Department of Differential Equations

09.1989–06.1999 Dnipropetrovsk High School no. 8 (High School Diploma with Distinction)

Professional memberships: American Mathematical Society (AMS), European Women in Mathematics (EWM), Southeastern European Network in Mathematical and Theoretical Physics (SEENET-MTP).

Publications

h-index=13 (Web of Science), h-index=13 (SCOPUS), h-index=16 (Google Scholar)

Publications indexed in Web of Science:

1. Vaneeva O.O., Bihlo A. and Popovych R.O., Generalization of the algebraic method of group classification with application to nonlinear wave and elliptic equations, *Commun. Nonlinear Sci. Numer. Simul.* **91** (2020), 105419.
2. Vaneeva O., Boyko V., Zhaliy O. and Sophocleous C., Classification of reduction operators and exact solutions of variable coefficient Newell–Whitehead–Segel equations, *J. Math. Anal. Appl.* **474** (2019), 264–275.
3. Vaneeva O. and Pošta S., Equivalence groupoid of a class of variable coefficient Korteweg–de Vries equations, *J. Math. Phys.* **58** (2017), no. 10, 101504, 12 pp.
4. Vaneeva O., Pošta S. and Sophocleous C., Enhanced group classification of Benjamin–Bona–Mahony–Burgers equations, *Appl. Math. Lett.* **65** (2017), 19–25.
5. Nesterenko M., Pošta S. and Vaneeva O., Realizations of Galilei algebras, *J. Phys. A: Math. Theor.* **49** (2016), no. 11, 115203, 26 pp.
6. Vaneeva O., Kuriksha O. and Sophocleous C. Enhanced group classification of Gardner equations with time-dependent coefficients, *Commun. Nonlinear Sci. Numer. Simul.* **22** (2015), no. 1-3, 1243–1251.
7. Vaneeva O.O., Sophocleous C. and Leach P.G.L., Lie symmetries of generalized Burgers equations: application to boundary-value problems, *J. Engrg. Math.* **91** (2015), 165–176.
8. Vaneeva O.O., Popovych R.O. and Sophocleous C., Group analysis of Benjamin–Bona–Mahony equations with time dependent coefficients, *J. Phys.: Conf. Ser.* **621** (2015), 012016, 12 pp.

9. Vaneeva O.O., Papanicolaou N.C., Christou M.A. and Sophocleous C., Numerical solutions of boundary value problems for variable coefficient generalized KdV equations using Lie symmetries, *Commun. Nonlinear Sci. Numer. Simul.* **19** (2014), no. 9, 3074–3085.
10. Kuriksha O., Pošta S. and Vaneeva O., Group classification of variable coefficient generalized Kawahara equations, *J. Phys. A: Math. Theor.* **47** (2014), 045201, 19 pp.
11. O.A. Pocheketa, R.O. Popovych and O.O. Vaneeva, Group classification and exact solutions of variable-coefficient generalized Burgers equations with linear damping, *Appl. Math. Comput.* **243** (2014) 232–244.
12. O.O. Vaneeva, N.C. Papanicolaou, M.A. Christou, C. Sophocleous, Numerical solutions of boundary value problems for variable coefficient generalized KdV equations using Lie symmetries, *Commun. Nonlinear Sci. Numer. Simulat.* **19** (2014) 3074–3085.
13. K. Charalambous, O. Vaneeva, C. Sophocleous, Group classification of variable coefficient $K(m, n)$ equations, *J. Geom. Symmetry Phys.* **33** (2014) 79–90.
14. O.O. Vaneeva, R.O. Popovych and C. Sophocleous, Equivalence transformations in the study of integrability, *Phys. Scr.* **89** (2014) 038003, 9 p.
15. O. Kuriksha, S. Pošta and O. Vaneeva, Group classification of variable coefficient generalized Kawahara equations, *J. Phys. A: Math. Theor.* **47** (2014) 045201, 19 p.
16. O. Vaneeva and A. Zhaliy, Group classification of variable coefficient quasilinear reaction-diffusion equations, *Publ. Inst. Math. (Beograd) (N.S.)* **94(108)** (2013) 81–90.
17. O.O. Vaneeva, R.O. Popovych and C. Sophocleous, Extended group analysis of variable coefficient reaction–diffusion equations with exponential nonlinearities, *J. Math. Anal. Appl.* **396** (2012) 225–242.
18. O.O. Vaneeva, Lie symmetries and exact solutions of variable coefficient mKdV equations: an equivalence based approach, *Commun. Nonlinear Sci. Numer. Simulat.* **17** (2012) 611–618.
19. R.O. Popovych and O.O. Vaneeva, More common errors in finding exact solutions of nonlinear differential equations: Part I, *Commun. Nonlinear Sci. Numer. Simulat.* **15** (2010) 3887–3899.
20. O.O. Vaneeva, R.O. Popovych, C. Sophocleous, Enhanced group analysis and exact solutions of variable coefficient semilinear diffusion equations with a power source, *Acta Appl. Math.* **106** (2009) 1–46.
21. N.M. Ivanova, R.O. Popovych, C. Sophocleous and O.O. Vaneeva, Conservation laws and hierarchies of potential symmetries for certain diffusion equations, *Physica A* **388** (2009) 343–356.

22. R.O. Popovych, C. Sophocleous and O.O. Vaneeva, Exact solutions of a remarkable fin equation, *Appl. Math. Lett.* **21** (2008) 209–214.
23. O.O. Vaneeva, A.G. Johnpillai, R.O. Popovych and C. Sophocleous, Group analysis of nonlinear fin equations, *Appl. Math. Lett.* **21** (2008) 248–253.
24. O.O. Vaneeva, A.G. Johnpillai, R.O. Popovych and C. Sophocleous, Enhanced group analysis and conservation laws of variable coefficient reaction-diffusion equations with power nonlinearities, *J. Math. Anal. Appl.* **330** (2007) 1363–1386.
25. R.O. Popovych, O.O. Vaneeva and N.M. Ivanova, Potential nonclassical symmetries and solutions of fast diffusion equation, *Phys. Lett. A* **362** (2007) 166–173.

Other publications:

1. O.O. Vaneeva and A.Yu. Zhalij, Lie symmetries of generalized Kawahara equations, *Dopov. Nac. akad. nauk Ukr.* **12** (2020), (in Ukrainian).
2. Vaneeva O., Magda O. and Zhalij A., Equivalence groupoid and enhanced group classification of a class of generalized Kawahara equations, V. Dobrev (ed.), pp. 329–340 in *Springer Proc. Math. Stat., Vol. 335. XIII International Workshop “Lie Theory and Its Application in Physics”*, Springer (2020); arXiv:1509.04481.
3. Vaneeva O., Transformation properties of nonlinear evolution equations in 1+1 dimensions, pp. 367–376 in *Modern Mathematical Physics (Belgrade, 2019)*, Institute of Physics, Belgrade, 2020.
4. Vaneeva O.O., Equivalence groupoids of classes of nonlinear second-order evolution equations, *Dopov. Nac. akad. nauk Ukr.* **5** (2019), 3–10 (in Ukrainian).
5. O.O. Vaneeva, Exact solutions of Fisher equations with time dependent coefficients, in *Symmetry and Integrability of Equations of Mathematical Physics*, Nikitin A.G. Boyko V.M., Vaneeva O.O., Nesterenko M.O. and Popovych R.O. (Editors), *Collection of Works of Institute of Mathematics*, Kyiv, 2019, V. 16, no. 1, 44–49 (in Ukrainian).
6. O.O. Vaneeva, Classification of differential equations with respect to their symmetry properties (According to the materials of scientific report at the meeting of the Presidium of NAS of Ukraine, July 5, 2017), *Visn. Nac. Acad. Nauk Ukr.* **9** (2017), 33–40 (in Ukrainian).
7. Vaneeva O., Karadzhov Yu. and Sophocleous C., Group analysis of a class of nonlinear Kolmogorov equations, *Lie Theory and its Applications in Physics*, 349–360, Springer Proc. Math. Stat. **191**, Springer, Singapore, 2016; arXiv:1509.04481.
8. O. Kuriksha, S. Pošta and O. Vaneeva, Group analysis of variable coefficient generalized fifth-order KdV equations, *Physics of Particles and Nuclei Letters* **11**, No. 7, (2014) 990–995.
9. O.O. Vaneeva and A.Yu. Zhalij, Group analysis of a class of reaction-diffusion equations with variable coefficients, *Dopov. Nac. akad. nauk Ukr.* **10** (2014), 12–20 (in Ukrainian).

10. O. Kuriksha, S. Pošta and O. Vaneeva, Group analysis of generalized fifth-order Korteweg–de Vries equations with time-dependent coefficients, V. Dobrev (ed.), *Springer Proc. Math. Stat., Vol. 111. X International Workshop “Lie Theory and Its Application in Physics”*, Springer (2014), 311–321; arXiv:1402.0347.
11. K. Charalambous, O. Vaneeva and C. Sophocleous, Group classification of variable coefficient $K(m, n)$ equations, *Geometry, integrability and quantization XV*, Avangard Prima, Sofia (2014) 106–116.
12. O. Vaneeva and Yu. Karadzhov, Lie symmetries of (2+1)-dimensional nonlinear Dirac equations, *Proceedings of the 7th Mathematical Physics Meeting: Summer School and Conf. on Modern Mathematical Physics* (September 9–19, 2012, Belgrade, Serbia) (2013) 349–359.
13. O.O. Vaneeva, R.O. Popovych and C. Sophocleous, Group classification of the Fisher equation with time-dependent coefficients, *Proceedings of 6th International Workshop “Group Analysis of Differential Equations and Integrable Systems”* (June 17–21, 2012, Protaras, Cyprus) (2013) 225–236.
14. O.O. Vaneeva, Group classification of variable coefficient KdV-like equations, V. Dobrev (ed.), *Springer Proceedings in Mathematics & Statistics, Vol. 36. IX International Workshop “Lie Theory and Its Application in Physics”*, Springer, 2013, pp. 451–459; arXiv:1204.4875.
15. O.O. Vaneeva, R.O. Popovych and C. Sophocleous, Reduction operators of variable coefficient semilinear diffusion equations with an exponential source, *Proceedings of 5th International Workshop “Group Analysis of Differential Equations and Integrable Systems”* (June 6–10, 2010, Protaras, Cyprus) (2011) 207–219; arXiv:1010.2046.
16. O.O. Vaneeva, R.O. Popovych and C. Sophocleous, Reduction operators of variable coefficient semilinear diffusion equations with a power source, *Proceedings of 4th International Workshop “Group Analysis of Differential Equations and Integrable Systems”* (October 26–30, 2008, Protaras, Cyprus) (2009) 191–209; arXiv:0904.3424.
17. Olena Vaneeva, Group classification via mapping between classes: an example of semilinear reaction–diffusion equations with exponential nonlinearity, *Proceedings of the 5th Mathematical Physics Meeting: Summer School and Conf. on Modern Mathematical Physics* (July 6–17, 2008, Belgrade, Serbia) (2009) 463–471; arXiv:0811.2587.
18. O.O. Vaneeva, Group classification of variable coefficient reaction–diffusion equations with quadratic nonlinearity, in *Symmetry and Integrability of Equations of Mathematical Physics (Dedicated to the 70-th Anniversary of Prof. W.I. Fushchych)*, Boyko V.M., Nikitin A.G. and Popovych R.O. (Editors), *Collection of Works of Institute of Mathematics*, Kyiv, 2006, V.3, no. 2, 49–62 (in Ukrainian).
19. Olena Vaneeva, Reduction operators of nonlinear filtration equation, *Proceedings of the VI International Workshop “Lie theory and its application to physics”* (15–21 August, 2005, Varna, Bulgaria), *Bulg. J. Phys.* **33(s2)** (2006) 227–230.

20. Tychynin V.A. and Vaneeva O.O., Reduction and some exact solutions of the three-dimensional Born–Infeld equation, *Differential equations and their applications: Proceedings of Dnipropetrovsk National University*, Dnipropetrovsk National University, 2005, 116–122 (in Ukrainian).

Editorial activity:

- A.G. Nikitin, V.M. Boyko, O.O. Vaneeva, M.O. Nesterenko and R.O. Popovych (Eds.), Symmetry and Integrability of Equations of Mathematical Physics (Proceedings of the International workshop on the occasion of the fortieth anniversary of the Department of Applied Research), *Collection of Works of Institute of Mathematics*, Kyiv, 2019, V. 16, N 1, 204 pp.
- O.O. Vaneeva, C. Sophocleous, V.M. Boyko, R.O. Popovych and P.A. Damianou (Eds.), Book of abstracts of the 9th International Workshop “Group Analysis of Differential Equations and Integrable Systems” held in Larnaca, Cyprus, June 10–14, 2018, 48 pp.
- Book of abstracts of the International Conference of Young Mathematicians (2017, June 7-10, Kyiv, Ukraine), 126 pp.
- V.M. Boyko, O.O. Vaneeva, R.O. Popovych, C. Sophocleous, and P.A. Damianou (Eds.), Book of abstracts of the 8th International Workshop “Group Analysis of Differential Equations and Integrable Systems” held in Larnaca, Cyprus, June 12–17, 2016, 48 pp.
- Book of abstracts of the International Conference of Young Mathematicians (2015, June 3-6, Kyiv, Ukraine), 192 pp.
- O.O. Vaneeva, C. Sophocleous, R.O. Popovych, V.M. Boyko and P.A. Damianou (Eds.), *Proceedings of the Seventh International Workshop “Group Analysis of Differential Equations & Integrable Systems” (Larnaca, Cyprus, 2014)*, J. Phys.: Conf. Ser., Vol. **621**, 224 pp.
- O.O. Vaneeva, C. Sophocleous, R.O. Popovych and P.A. Damianou (Eds.), Book of abstracts of the 7th International Workshop “Group Analysis of Differential Equations and Integrable Systems” held in Larnaca, Cyprus, June 15–19, 2014, 48 pp.
- O.O. Vaneeva, C. Sophocleous, R.O. Popovych, P.G.L. Leach, V.M. Boyko and P.A. Damianou (Eds.), *Proceedings of the Sixth International Workshop “Group Analysis of Differential Equations & Integrable Systems” (Protaras, Cyprus, 2012)*, University of Cyprus, Nicosia, Cyprus, 2013, 248 pp.
- V.M. Boyko, P.A. Damianou, R.O. Popovych, C. Sophocleous and O.O. Vaneeva (Eds.), Book of abstracts of the 6th International Workshop “Group Analysis of Differential Equations and Integrable Systems” held in Protaras, Cyprus, June 17–21, 2012, 56 pp.

Awards:

- 2020 Award “Woman of the Year 2020” in the category Science, Edipress Ukraine.
2020 Award “International Rising Talents”, L’Oreal & UNESCO.
2018 Regional award “For Women in Science”, L’Oreal & UNESCO.
2015 Prize of the Institute of Mathematics of the National Academy of Ukraine for young scientists for the series of papers “Group analysis of classes of equations of mathematical physics”.
2014 Prize of the Presidium of the National Academy of Ukraine for young scientists for the series of papers “Applications of Lie algebras for construction exact and numerical solutions of differential equations” (Jointly with Maryna Nesterenko).
2010 Prize of the President of Ukraine for young scientists for the series of papers “Algebraic methods in mathematical physics” (Jointly with Maryna Nesterenko).

Research grants:

- 2019 The grant from The Elsevier Mathematical Sciences Sponsorship Fund for the organization of the event “Women in Mathematics: History and Perspectives” (April 20, 2019, Kyiv).
1.03.2018–31.12.2018 Grant of the Presidium of NAS of Ukraine for young scientists.
25.05.2014–22.06.2014 Abel Visiting Scholar Grant from the Niels Henrik Abel Board. The research project “Lie group analysis for wide classes of variable-coefficient nonlinear partial differential equations that arise as models in mathematical physics and mathematical biology”.
02.2014–02.2016 Scholarship of the President of Ukraine for young scientists.
01.07.2013–31.12.2014 Grant of the Presidium of NAS of Ukraine for young scientists. The research project “Contractions and realizations of Lie algebras in problems of mathematical physics and mathematical biology”.
09.2011–05.2013 Scholarship of the Presidium of NAS of Ukraine for young scientists.
2008–2009 Grant of the President of Ukraine for young scientists GP/F26/0005.
2005–2006 Grant of the President of Ukraine for young scientists GF/F11/0061.

Conferences and Schools:

1. 11th International Skorobohatko Mathematical Conference (2020, October 26–30, Lviv, Ukraine);
2. Bogolyubov Kyiv Conference (2019, September 24–26, Kyiv, Ukraine);
3. X Mathematical Physics Meeting: School and Conference on Modern Mathematical Physics (2019, September 9–14, Belgrade, Serbia);
4. XIII International Workshop “Lie Theory and Its Applications in Physics” (2019, June 17–23, Varna, Bulgaria);
5. International Conference of Young Mathematicians (2019, June 6–8, Kyiv, Ukraine);
6. International Workshop “Symmetry and Integrability of Equations of Mathematical Physics” (2018, December 21–24, Kyiv, Ukraine);
7. International conference “Modern scientific and methodological problems of mathematics in high school” (2018, June 21–22, Kyiv, Ukraine);

8. Ninth Workshop “Group Analysis of Differential Equations and Integrable Systems” (2018, June 10–14, Larnaca, Cyprus);
9. International Conference on Modern Problems of Mechanics and Mathematics (2018, May 22–25, Lviv, Ukraine);
10. International Conference of Young Mathematicians (2017, June 7–10, Kyiv, Ukraine);
11. International Workshop “Symmetry and Integrability of Equations of Mathematical Physics” (2016, December 17–20, Kyiv, Ukraine);
12. Eighth Workshop “Group Analysis of Differential Equations and Integrable Systems” (2016, June 12–17, Larnaca, Cyprus);
13. International Workshop “Symmetry and Integrability of Equations of Mathematical Physics” (2015, December 27–29, Kyiv, Ukraine);
14. XI International Workshop “Lie Theory and Its Applications in Physics” (2015, June 15–21, Varna, Bulgaria);
15. International Conference of Young Mathematicians (2015, June 3–6, Kyiv, Ukraine);
16. The conference of young scientists “Pidstryhach Readings — 2015” (2015, May 26–28, Lviv, Ukraine);
17. Workshop on Toda, Lotka–Volterra and related systems (2014, October 21–23, Larnaca, Cyprus);
18. Seventh Workshop “Group Analysis of Differential Equations and Integrable Systems” (2014, June 15–19, Larnaca, Cyprus);
19. International Workshop “Symmetry and Integrability of Equations of Mathematical Physics” (2013, December 21–24, Kiev, Ukraine);
20. The sixth Petrov International Symposium on High Energy Physics, Cosmology and Gravity (2013, September 5–8, Kiev, Ukraine);
21. Supersymmetries and Quantum Symmetries - SQS’2013 (2013, July 29 - August 3, Dubna, Russia);
22. X International Workshop “Lie Theory and Its Applications in Physics” (2013, June 17–23, Varna, Bulgaria);
23. 7th Mathematical Physics Meeting: School and Conference on Modern Mathematical Physics (2012, September 9–19, Belgrade, Serbia);
24. XVII Geometrical Seminar (2012, September 3–8, Zlatibor, Serbia);
25. Sixth Workshop “Group Analysis of Differential Equations and Integrable Systems” (2012, June 17–21, Protaras, Cyprus);
26. International Workshop “Young Women in PDEs” (2012, May 10–12, Bonn, Germany);

27. International Workshop “Symmetry and Integrability of Equations of Mathematical Physics” (2011, December 18–19, Kiev, Ukraine);
28. IX International Workshop “Lie Theory and Its Applications in Physics” (2011, June 20–26, Varna, Bulgaria);
29. Fifth Workshop “Group Analysis of Differential Equations and Integrable Systems” (2010, June 6–10, Protaras, Cyprus);
30. Eighth International Conference “Symmetry in Nonlinear Mathematical Physics” (2009, June 21–27, Institute of Mathematics, Kyiv, Ukraine);
31. Fourth Workshop “Group Analysis of Differential Equations and Integrable Systems” (2008, October 26–30, Protaras, Cyprus);
32. II International School on Modern Trends in Mathematical Physics (2008, September 6–11, Varna, Bulgaria);
33. 5th Mathematical Physics Meeting “Summer School and Conference on Modern Mathematical Physics” (2008, July 6–17, Institute of Physics, Belgrade, Serbia);
34. Third Workshop “Group Analysis of Differential Equations — Integrable Systems” (2007, October 4–5, University of Cyprus, Nicosia, Cyprus);
35. Seventh International Conference “Symmetry in Nonlinear Mathematical Physics” (2007, June 24–30, Institute of Mathematics, Kyiv, Ukraine);
36. Conference “Symmetry and integrability of equations of mathematical physics” (2006, December 16–18, Kyiv, Ukraine);
37. Workshop “Ukrainian school of group analysis of differential equations” (2006, December 5–6, Poltava, Ukraine);
38. Second Workshop “Group Analysis of Differential Equations — Integrable Systems” (2006, September 25–28, University of Cyprus, Nicosia, Cyprus);
39. Workshop “Group Analysis of Differential Equations — Integrable Systems” (2005, October 27, University of Cyprus, Nicosia, Cyprus);
40. IV International Symposium “Quantum Theory and Symmetries” (2005, August 15–21, Varna, Bulgaria);
41. Sixth International Conference “Symmetry in Nonlinear Mathematical Physics” (2005, June 20–26, Institute of Mathematics, Kyiv, Ukraine).

Regular research Seminars of the Department of Applied Research of the Institute of Mathematics of NAS of Ukraine (Kyiv, Ukraine).

Short scientific visits:

2019, October 6–13, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2019, May 19–26, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2015, November 2–30, Department of Mathematics, Czech Technical University in Prague, Czech Republic;

2015, September 13–27, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2015, March 16–23, Department of Mathematics, Czech Technical University in Prague, Czech Republic;

2014, October 12–26, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2014, September 1–8, Department of Mathematics, Czech Technical University in Prague, Czech Republic;

2014, May 25 – June 22, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2014, January 6–16, Department of Mathematics, Czech Technical University in Prague, Czech Republic;

2013, September 29 – October 13, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2013, May 12–19, Department of Mathematics, Czech Technical University in Prague, Czech Republic;

2013, March 10–23, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2012, October 6–20, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2011, October 1–9, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2011, January 15–22, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2010, October 17–21, Department of Mathematics and Statistics, University of Saskatchewan, Saskatoon, Canada;

2007, October 2–20, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2006, September 17 – October 10, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus;

2006, April 24 – May 24, Jacob Blaustein Institute for Desert Research, Ben-Gurion University, Sede-Boker Campus, Israel;

2005, October 8–21, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus.

Other activities:

- Organization of the first–third (Nicosia), fourth–sixth (Protaras) and seventh–ninth (Larnaca) Workshops “Group Analysis of Differential Equations and Integrable Systems” (Cyprus, 2005, 2006, 2007, 2008, 2010, 2012, 2014, 2016, 2018)
- Organization of the International Workshops “Symmetry and Integrability of Equations of Mathematical Physics” (Kyiv, 2011, 2013, 2015, 2016, 2018)
- Organization of the International Conference of Young Mathematicians (Kyiv, 2015, 2017, 2019)

- Organization of the sixth, seventh and eighth International Conferences “Symmetry in Nonlinear Mathematical Physics” (Kyiv, 2005, 2007, 2009)
- Reviewer of Mathematical Reviews (MathSciNet)
- Reviewer of Mathematical Zenterblatt
- Head of the Young Scientists Board of the Institute of Mathematics of NAS of Ukraine (Oct. 2013 – Sep. 2015)
- Head of the Young Scientists Board of the Division of Mathematics of NAS of Ukraine (May 2014 – May 2016)
- Member of the Young Scientists Board of the Institute of Mathematics of NAS of Ukraine (Sep. 2015 – Sep. 2019)
- Talk at the Presidium of NAS of Ukraine, section “Scientific reports of Young Scientists” (July 5, 2017)
- Talk for popularization of mathematics at STEM Story Cafe (December 1, 2018, TseHUB, Kyiv)
- Talk for popularization of mathematics at the Third Conference “Women in STEM” (March 15, 2019, Kyiv)
- Mentor in the project STEM Girls (2018–2019)
- Organization of the events “Day of Science”, “PhysMathDay” and “PiDay” at the Institute of Mathematics for popularization of mathematics (2014, 2018, 2019)
- Organization of the event “Women in Mathematics: History and Perspectives” (April 22, 2019)
- Talk for popularization of mathematics for school students (December 1, 2020, online)
- Coordinator for Ukraine of the society ”European Women in Mathematics” (since June 2020)
- Ambassador for Ukraine of the Committee for Women in Mathematics (since June 2020)

Languages: Ukrainian, Russian (native speaker), English (fluent).

Referee:

1. Acta Applicandae Mathematicae
2. Ain Shams Engineering Journal
3. Applied Mathematics and Computation
4. Applied Mathematics Letters

5. Asian-European Journal of Mathematics
6. British Journal of Mathematics & Computer Science
7. Central European Journal of Physics
8. Communications in Nonlinear Science and Numerical Simulation
9. FILOMAT
10. International Journal of Applied and Computational Mathematics
11. International Journal of Nonlinear Sciences and Numerical Simulations
12. Journal of Engineering Mathematics
13. Journal of Mathematical Analysis and Applications
14. Journal of Mathematical Physics
15. Journal of Mathematical Physics, Analysis, Geometry
16. Journal of Physics A: Mathematical and Theoretical
17. Journal of the Franklin Institute
18. Mathematical Methods in the Applied Sciences
19. Mathematical Problems in Engineering
20. Nonlinear Analysis: Modelling and Control
21. Physica A
22. Physics Letters A
23. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)
24. Ukrainian Mathematical Journal
25. Zeitschrift fuer Naturforschung A