

CURRICULUM VITAE

TAMARA FASTOVSKA

Personal and contact information	Full name:	Tamara Fastovska
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	Homepage:	http://mathphys.univer.kharkov.ua/en/~Fastovskaya
Employment	Since 2017	Associate professor, , Department of Mathematics and Computer Sciences Kharkiv Karazin National University, Kharkiv, Ukraine
	2008-2015	Lecturer, Department of Mathematics and Mechanics Kharkiv Karazin National University, Kharkiv, Ukraine.
	Since 2010	Associate professor, Kharkiv National Automobile and Highway University, Kharkiv, Ukraine.

	2006-2010	Assistant professor, Kharkiv National Automobile and Highway University, Kharkiv, Ukraine.
Scientific degrees	2008	Ph.D. in mathematics, Kharkiv Karazin National University. Advisor: Prof. I. Chueshov. Thesis: Asymptotic behavior of solutions to thermoelastic Mindlin plates problems
Research interests		Partial differential equations, dynamical systems. Asymptotic analysis of linear and nonlinear differential and integro-differential evolution equations: stability, existence, regularity, and dimension of attractors, singular perturbations, inertial manifolds. Coupled PDE systems, thermoelastic, viscoelastic systems, fluid/gas-structure interactions, hemodynamics, biological systems. Observability inequalities, Carleman estimates, unique continuation.
Languages	<i>English</i> <i>German</i>	Advanced (C1 Cambridge English Certificate) Upper-intermediate (Zertifikat Deutsch B2)
Publications	<i>Research articles</i>	Chueshov I, Fastovska, T., Ryzhkova I., Quasistability method in study of asymptotical behaviour of dynamical systems J. Math. Phys. Anal. Geom. Vol. 15 (2019), no. 4, pp. 448–501, https://doi.org/10.15407/mag15.04.448 . Fastovska, T., Long-time behaviour of a radially symmetric fluid-shell interaction system, Discrete and Continuous Dynamical Systems A(2018), Vol. 38, no. 3, 1315-1348. Fastovska, T. Global attractor for thermoelasticity in shape memory alloys without viscosity. Math. Meth. Appl. Sci., 39 (2016), no. 1315, 3669–3690.

		<p>Chueshov I, Fastovska, T., On interaction of circular cylindrical shells with a Poiseuille type flow, <i>Evolution Equations and Control Theory</i> (2016), Vol. 5, no. 4, 605-629.</p> <p>T.B. Fastovska, Attractor for a composite system of nonlinear wave and thermoelastic plate equations, <i>Visnyk of Kharkiv National University</i>, 70 (2014), 4-35.</p> <p>T. Fastovska, Decay rates for Kirchhoff-Timoshenko transmission problems, <i>Commun. Pure Appl. Anal.</i>, 12 (2013), no. 6, pp. 2645-2667.</p> <p>T. Fastovska, On the long-time behavior of the thermoelastic plates with second sound., <i>J. Math. Phys. Anal. Geom.</i>, 9 (2013), no. 2, 191-206.</p> <p>T. Fastovska, Upper semicontinuous attractor for a 2D Mindlin-Timoshenko thermo-viscoelastic model with memory, <i>Nonlinear Analysis TMA</i>, 71 (2009), no. 10, 4833-4851.</p> <p>T. Fastovska, Upper semicontinuous attractor for 2D Mindlin-Timoshenko thermoelastic model with memory, <i>Commun. Pure Appl. Anal.</i>, 6 (2007), no. 1, 83-101.</p> <p>T. Fastovska, Asymptotic properties of global attractors for nonlinear Mindlin-Timoshenko model of thermoelastic plate, <i>Visnyk of Kharkiv National University</i>, 56 (2006), no. 749, 13-29.</p> <p>T. Fastovska, Invariant manifolds for coupled nonlinear parabolic- hyperbolic PDE, <i>Ukrainian Math. J.</i>, 57 (2005), no. 12, 1684-1697.</p> <p>T. Fastovska, Global attractor for nonlinear Mindlin-type plates thermoelasticity, <i>J. Math. Phys. Anal. Geom.</i>, 12 (2005), no. 2, 203-217.</p>
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International experience:	<i>International visits and training:</i> 4-8 March 2020 18-21 Jan 2020 9 Jan-8 Feb 2020 20-23 Aug 2019 5-19 Aug 2019 29 Jun-6 Jul 2019 13-15 May 2019 9-14 Sep 2018	Participation in International Workshop „Analytical Modelling and Approximation Methods“, Humboldt University of Berlin, Berlin, Germany Participation in International Workshop „Dynamics of PDEs“, University of Surrey, Guildford, UK Visiting Researcher, Technical University of Braunschweig, Braunschweig, Germany Participation in International Workshop „Modeling, interpolation, and approximation for waves and signals“, University of Luebeck, Luebeck, Germany Visiting Researcher, Technical University of Braunschweig, Braunschweig, Germany Participation in International School and Conference "Infinite dimensional dynamical systems and attractors", Lanzhou University, China. Participation in Volkswagen Foundation Symposium, Technical University of Dresden, Radebeul, Germany Participation in International Workshop „Dynamics of dissipative PDEs“, University of Surrey, Guildford, UK

	6-22 Aug 2018	Visiting Researcher, training program , Humboldt University of Berlin, Berlin, Germany
	3 Jan. 2018-3 Feb. 2018	Visiting Researcher, training program, Humboldt University of Berlin, Berlin, Germany
	1-5 Aug 2017	Participation in Summer School „Modeling, Analysis, and Approximation Theory toward Applications in Tomography and Inverse Problems“, University of Luebeck, Luebeck, Germany
	3 Jul. 2017-30 Jul. 2017	Visiting Researcher, training program, Technical University of Braunschweig, Braunschweig, Germany
	28 Jun -26 Jul 2016	Visiting Researcher, Humboldt University of Berlin, Berlin, Germany
	24-27 Jun 2016	Participation in the kick-off meeting of the International Research project „Modeling, Analysis, and Approximation Theory toward Applications in Tomography and Inverse Problems“, University of Luebeck, Luebeck, Germany
	9-27 Oct. 2006	Participation in School on Nonlinear Differential Equations, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy
	20 Feb. 2003-20 Mar. 2003	DAAD Leonard Euler Grant, Free University of Berlin, Berlin, Germany
	International projects: 2016-2019	Volkswagen Foundation International Research Project „Modeling, Analysis, and Approximation Theory toward Applications in Tomography and Inverse Problems“, Germany

	2020-2022	Volkswagen Foundation International Research Project „From Modeling to Analysis and Approximation“, Germany
	Main international conferences:	<p>T. Fastovska, I.Kmit, On the long-time behaviour of non-autonomous fluid-structure interaction systems, International conference "Modeling, analysis, approximation theory toward applications in tomography and inverse problems", Braunschweig, February 3-7, 2018.</p> <p>T. Fastovska, Pullback and uniform attractors for non-autonomous fluid-structure interaction systems, 28 IFIP TC 7 Conference On System Modelling and Optimization, Essen, Germany, July 23-27, 2018, p. 26.</p> <p>T. Fastovska, Uniform attractors for non-autonomous fluid-structure interaction systems, International workshop "Modeling, analysis, approximation theory toward applications in tomography and inverse problems", Berlin, August 20-21, 2018.</p> <p>T. Fastovska, Attractors for a full von Karman fluid-structure interaction model, International Workshop "Dynamics of dissipative PDEs", Surrey, Guildford, UK, September 9-14, 2018, pp. 2-4.</p> <p>T. Fastovska, Long-time behaviour of transmission problems of elasticity, Proceedings of International conference "Infinite dimensional dynamical systems and attractors", Lanzhou, China, June 30-July 6, 2019, p. 6.</p> <p>T. Fastovska, Asymptotic behaviour of Bresse type transmission problems, International workshop "„Modeling, interpolation, and approximation for waves and signals“", Luebeck, August 20-23, 2019.</p>
Grants and awards		

	<p>Jan 2020-Dec 2022</p> <p>Jun 2016-Aug 2019</p> <p>1 Mar. 2013-28 Feb. 2014</p> <p>9-27 Oct. 2006</p> <p>1 Sep. 2002- 30 May 2003</p>	<p>Volkswagen Foundation grant for International Research Project „From Modeling to Analysis and Approximation“, Germany</p> <p>Volkswagen Foundation grant for International Research Project „Modeling, Analysis, and Approximation Theory toward Applications in Tomography and Inverse Problems“, Germany</p> <p>N.I. Akhiezer Foundation Grant 2013, USA-Ukraine.</p> <p>UNESCO grant for participation in School on Nonlinear Differential Equations, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy</p> <p>Leonhard-Euler-Scholarship Program grant, DAAD, Free University of Berlin, Germany</p>
Teaching	<p><i>Graduate level</i></p> <p><i>Master level</i></p>	<p>Partial Differential Equations I</p> <p>Dynamical Systems</p> <p>Functional Analysis</p> <p>Sobolev Spaces</p> <p>Operator theory</p> <p>Distributions Theory</p> <p>Elliptic Problems</p> <p>Mathematical Analysis</p> <p>Partial Differential Equations II</p> <p>Variational Methods of Mathematical Physics</p> <p>Interpolation Theory</p>
Editorial services	Referee for:	<p>Boundary Value Problems</p> <p>Journal of Mathematical Analysis and Applications,</p>

		Discrete and Continuous Dynamical Systems-B, Journal of Mathematical Physics, Journal of Nonlinear Analysis: Real World Applications, Evolution Equations and Control Theory, Nonlinear Dynamics Turkish Journal of Mathematics, Journal of Mathematical Physics, Analysis, Geometry, Ukrainian Mathematical Journal.
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