

CURRICULUM VITAE

ALEXANDER YAMPOLSKY

Personal and contact information	Full name:	Alexander Yampolsky
	Date of birth:	16 February 1956
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	E-mail:	a.yampolsky@karazin.ua
	Homepage:	http://geometry.karazin.ua/~yampolsky
Employment	Since 2016	Head of the Department of Pure Mathematics, School of Mathematics and Informatics V.N. Karazin Kharkiv National University, Kharkiv, Ukraine.
	2015-2016	Associate Professor (Docent) at the Department of Pure Mathematics, School of Mathematics and Informatics V.N. Karazin Kharkiv National University, Kharkiv, Ukraine

	2014-2015	Head of the Geometry Department, School of Mechanics and Mathematics V.N. Karazin Kharkiv National University, Kharkiv, Ukraine.
	1990 – 2014	Associate Professor at the Geometry Department, School of Mechanics and Mathematics
	1986 – 1999	V.N. Karazin Kharkiv National University, Kharkiv, Ukraine Assistant Professor at the Department of Geometry, School of Mechanics and Mathematics V.N. Karazin Kharkiv National University, Kharkiv, Ukraine
Education and Degrees	2015	Doctor of Sciences in Mathematics. Thesis: " Geometry of Submanifolds in Fiber Bundles"
	1986	PhD in mathematics, Odessa State University (Ukraine) Thesis: "On the Sasaki metric of tangent and normal bundles"
	1982 – 1986	PhD student. Kharkiv State University
	1978	M.S. equivalent in mathematics, Kharkiv State University.
Research interests		Geometry of submanifolds in tangent and normal bundles, geometry of sections in fiber bundles, Riemannian geometry.
Publications	Research articles	<ol style="list-style-type: none"> 1. Yampolsky A.L. (co-aut. Borisenko A.A.) On the Sasaki metric of normal bundle of submanifold in Riemannian space.// Math. Sbornik, 1987, v.134, No 2, pp. 158-176 (Engl. transl.: Math. USSR Sbornik, 1989, v.62, N 1, pp. 157-175) 2. Yampolsky A.L. On the extremal values of sectional curvature of Sasaki metric of tangent sphere bundle of constant curvature space.// Ukr. geom. sbornik, 1989,

		<p>v.32, pp. 127-137 .</p> <ol style="list-style-type: none"> 3. Yampolsky A.L. On characterisation of projections of geodesics of tangent (sphere) bundle of complex projective space.// Ukr. geom. sbornik, 1991, v.34, pp. 121-126 (Engl. transl.: Journ. Math. Sci.,1994, v. 69, N 1, pp. 916-920). 4. Yampolsky A.L. On the strong sphericity index of Sasaki metric of tangent sphere bundle.// Ukr. geom. sbornik, 1992, v.35, pp. 150-159 (Engl. transl.: Journ. Math. Sci., 1994, v. 72, N 4, pp. 3261-3266). 5. Yampolsky A.L. On the totally geodesic vector fields on submanifold // Matematicheskaya fizika, analiz, geometriya, 1994, v.1, No 3/4, pp. 540-545. 6. Yampolsky A.L. On the vertical strong-sphericity index of Sasaki metric of tangent sphere bundle.// Matematicheskaya fizika, analiz, geometriya, 1996, v.3, No 3/4, p. 446-456. 7. Yampolsky A. On the mean curvature of a unit vector field.// Publ. Math. Debrecen, 60(2002), 1/2, 131-155. 8. Yampolsky A. On the intrinsic geometry of a unit vector field.// Comment. Math. Univ. Carolinae 43, 2(2002), 299-317. 9. Yampolsky A. Totally geodesic property of the Hopf vector field.// Acta Math. Hungar. 101, 1-2 (2003), 73-92. 10. Yampolsky A. On extrinsic geometry of unit normal vector field of Riemannian hyperfoliation.// Publ. Math. Debrecen., 63/4 (2003), 555-567. 11. Yampolsky A. , Abbassi M.T.K. Transverse totally geodesic submanifolds of the tangent bundle.// Publ. Math. Debrecen, 64 /1-2 (2004), 129-154 . 12. Yampolsky A., Saharova E. Powers of the space form curvature operator and geodesics of the tangent bundle.// Ukr. Math. Journal 2004, 56/9, 1231-1243. 13. Yampolsky A. Full description of totally geodesic unit vector field on Riemannian 2-manifold// Matematicheskaya fizika, analiz, geometriya 2004, 11/3, 355-365. 14. Yampolsky A. Totally geodesic unit vector fields on Riemannian manifold // Dokl. Ukr. Acad Nauk 2005, 3, 32--35. 15. Yampolsky A. Totally geodesic submanifolds in the tangent bundle of a Riemannian 2-manifold.// Matematicheskaya fizika, analiz, geometriya 2005, 1/1 , 116 – 139 16. Yampolsky A. On special types of minimal and totally geodesic unit vector fields.
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- // **7-th International Conference on Geometry, Integrability and Quantization**, June 2-10, Varna (Bulgaria), SOFTEX, Sofia, 2005, 290 – 304
17. Yampolsky A. Invariant totally geodesic unit vector fields on three-dimensional Lie groups // **Journal of Math. Phys., Analysis, Geom.** 3/2 (2007), p. 253 – 276..
 18. Yampolsky A. Totally geodesic vector fields on pseudo-Riemannian manifolds.// **Вестник ХНУ им. В.Н. Каразина, сер. Мат., прикл. Мат., мех.** 990 (2011), 4 – 14
 19. Yampolsky A. On geodesics of tangent bundle with fiberwise deformed Sasaki metric over Kahlerian manifold. // **Journal of Math. Phys., Analysis, Geom.** 8/2 (2012), p. 177 – 189.
 20. Yampolsky A. Minimal and totally geodesic sections of the unit sphere bundles. // **Вісник ХНУ, сер. Мат. Прикл. Мат і мех.**, 1030 (2012), 54 – 70.
 21. Yampolsky A.L. (co-aut. Borisenko A.A.) Riemannian geometry of bundles.// **Uspehi math. nauk**, 1991, No 6, pp 51-95. (Engl. transl.: Russian Math. Surveys, 1991, v. 46, N 6, pp. 55-106).
 22. Yampolsky A. On stability of totally geodesic unit vector fields on three-dimensional Lie groups.// **Geometry and its Applications. Springer Proceedings in Mathematics & Statistics.** -2014. -Vol. 72. -P. 167 – 195
 23. Yampolsky A. Eikonal Hypersurfaces in the Euclidean n-Space . **Mediterranean Journal of Mathematics**, 2017, 14: 160. <https://doi.org/10.1007/s00009-017-0965>
 24. Yampolsky A., Fursenko O. Caustics of wave fronts reflected by a surface, Year 2018, V 1 , Issue 2, Pages 131 - 137. <https://doi.org/10.33187/jmsm.431543>
 25. Yampolsky A. Opariy A. Generalized helices in three dimensional Lie groups, **Turkish Journal of Mathematics** (2019) 43: 1447 – 1455. <http://journals.tubitak.gov.tr/math/>
 26. Yampolsky A. Catacaustics of a hypersurface in the Euclidean n-space. **Mediterranean Journal of Mathematics**, (2019) 16: 88. <https://doi.org/10.1007/s00009-019-1365-3>

	Conference participation	More than 20 Conferences of different level
Visiting	<p>May 2018</p> <p>May 2017</p> <p>January-February 2017</p> <p>January-May 2006</p>	<p>University of Murcia (Spain)</p> <p>University of Murcia (Spain)</p> <p>University of Waterloo (Canada)</p> <p>Texas A&M University (USA)</p>
Teaching	<p>Graduate level</p> <p>Master level</p>	<p>Analytic geometry</p> <p>Topology</p> <p>Differential Geometry</p> <p>Geometry of fiber bundles</p> <p>Riemannian Geometry</p> <p>Geometry of Submanifolds</p>
Thesis supervised	<p>PhD Theses</p> <p>Master and Bachelor thesis supervised</p>	<p>Ye. Shugailo "Structure of submanifolds in affine space with degenerated second fundamental form" (2015)</p> <p>More than 40 theses defended.</p>

Languages	<i>Russian, Ukrainian</i> <i>English</i> <i>Polish</i>	Native B2 (V. Karazin University certified) Uncertified