

Curriculum Vitae

Ludmil Katzarkov

Education: Ph.D. University of Pennsylvania.

Ph.D. Thesis: Factorization theorems.

Ph.D. Advisor: Professor R. Donagi

M.S. Moscow University.

Master Thesis: Prym varieties and nonlinear PDE

Advisor: Professor V. Iskovskich.

Research Interests: Algebraic, Differential, Symplectic Geometry and Topology, String Theory, Math Biology.

Employment

1. 1990 - 1995 UPenn Grad. Student
2. 1995 MSRI - member.
3. 1996 UC Irvine Asst. Professor.
4. 1999 UC Irvine Assoc. Professor.
5. 2002 UC Irvine Professor.
6. 2004 U of M Professor.
7. 2007 UW Professor
8. 2017 HSE Professor
9. 2018 BAS Professor

10. visiting positions: IHES 1999 2 months, MPI Bonn 1997 - 4 months, 1998 2 months, Imp. Coll., London 4 months, Uiversite de Nice a month 2000, Munich University 2001 a month.

Awards:

1. Best student work award MSU 1986, 1987.
2. UPenn Dean Fellowship 1993.
3. Sloan Disserational Fellowship 1994.
4. Sloan Research Fellowship 1998-2001.
5. NSF Grant 1997 -1999, 75 K.
6. NSF Career Award 1999-2004, 200K.
7. NSA Grant 2004-2006, 50K.
8. Numerous UC research, outreach and computer grants.
9. Cosmos Grand Prix - 6K every year - award from private sources.
10. CMI 2004 Conference grant 12 K.
11. NSF Conference in U of M 2004, 9K, CO PI.
12. NSF Summer institute in Algebraic Geometry 2005 - through AMS, 150 K.
13. NSA 2005 -2006 15 K.
14. California Cosmos Grant 200K
15. CMI 2005 Summer institute in Algebraic Geometry 50 K.
16. NSF Conference Grant 2005 , 12 K.
17. CMI Fellowship - 40 K 2005-2006.
18. SSF Grant 200K, HMS Lausanne 2007.
19. An NSF grant with IAS 60 K.

20. A personal NSF grant 140 K, 2006 - 09.
21. FRG NSF Grant joint with MIT, 2007- 2010, 980K.
22. FRG NSF Grant joint with UCSD, 2009- 2012, 1500K.
23. Personal ERC Grant 2008 1000 K.
24. Personal FWF grant 2008 2011 500 K.
25. Multiple U of M and UCI grants.
26. Russian Megagrant 2017 -
27. Simons Collaboration Grant 2015 - 2022.
28. Simons Investigators Award 2017 -
29. VIHREN grant 2019 -

Teaching and service:

1. Math 230 Graduate algebra course
2. Math 230 Graduate algebra course
3. Math 233 Graduate algebraic geometry course
4. Math 298 Modern Homotopy theory
5. Math 299 Symplectic Lefschetz Theory
6. Math 298 Homological Mirror Symmetry and Noncommutative geometry
7. Math 685 Mathematical Biology - graduate class.
8. Math 103 Introduction to Math Biology - undergraduate class.
9. Calc. and Linear Algebra Courses 2C, 2A , 3A, 6C,
10. Undergraduate course - algebra 120 A, 120 B, 121.

11. I had independent studies with students on Algebraic topology M. Bayley and Homotopy theory Y.L. Tsai.
12. I have organized seminars on Motivic homotopy types 1997-1998 Symplectic geometry 1999.
13. I have had 10 grad. students: V. Boutchackchiev, N. Nirschl, Y.L. Tsai. N. Nirschl finished in 2002 and works for NSA now. Y.L. Tsai finished in 2003 and has a tenure track job. Boutchackchiev finished in 2004 and is a lecturer in UCI now. In Addition I have had the following students P. Clark, Y. Lee, J. Svoboda. A. Noll, F. Haiden, G.Dimitrov, A. Boyko.
14. I have advised at least 25 postdocs: P. Brosnan, Z. Tamsamani, M Yotov, B. de Oliveira, G. Pearlstein, T. Petrov, C. Gutticar, D. Favero, M.Ballard, G.Kerr, P.Pandit, C. Diemer, V.Prizhalkovskii, S. Galkin, A.Iliev, G. Dimitrov, A.Efimov, S.Galkin, D. Stepanov, R. Aguilar, E. Beccera, K. Y.Lee, P. Horja, E. Poemuru.
15. I have developed a new course Math 194 for teachers - Advance High School Math. I have created a math Circle for High School students.
16. I have organized Conferences on:
 - Motives , Polylogs and Nonabelian Hodge theory UCI 1998.
 - Symplectic Geometry - UCI 1999.
 - Geometry, Duality and String theory UCI 2000.
 - Symplectic Geometry UCI 2001.
 - I was the main organizer of the following semester activities:
 - Algebraic stacks and nonabelian Hodge theory MSRI 2002.
 - Symplectic geometry and Physics IPAM 2003.
 - Complex and Sumplectic Geometry U of M, March, 2004.
 - Geometry and Physics U of M , December 2004.
 - Summer institute in Algebraic Geometry 2005.
17. I am an Associate editor of Advances in Mathematics, Central European Journal of Mathematics; and an Editor-in-Chief of Serdica Mathematical Journal.

List of all papers of Ludmil Katzarkov included in the SCOPUS database

[1] Katzarkov L.

Monodromy invariants - From symplectic to smooth manifolds

(2003) Acta Applicandae Mathematicae, 75 (1-3), pp. 85 - 103, Cited 0 times.

DOI: 10.1023/A:1022375625839

[2] Dimitrov G., Katzarkov L.

Non-semistable Exceptional Objects in Hereditary Categories

(2016) International Mathematics Research Notices, 2016 (20), pp. 6293 - 6377, Cited 4 times.

DOI: 10.1093/imrn/rnv336

[3] Katzarkov L.

Homological mirror symmetry and algebraic cycles

(2009) Lecture Notes in Physics, 757, pp. 125 - 152, Cited 4 times.

DOI: 10.1007/978-3-540-68030-7_5

[4] Katzarkov L.

Nilpotent groups and universal coverings of smooth projective varieties

(1997) Journal of Differential Geometry, 45 (2), pp. 336 - 348, Cited 9 times.

DOI: 10.4310/jdg/1214459801

[5] Katzarkov L., Pandit P., Simpson C.

Reduction for $SL(3)$ pre-buildings

(2018) Proceedings of Symposia in Pure Mathematics, 98, pp. 207 - 227, Cited 0 times.

DOI: 10.1090/pspum/098/01724

[6] Galkin S., Katzarkov L., Mellit A., Shinder E.

Derived categories of Keum's fake projective planes

(2015) *Advances in Mathematics*, 278, pp. 238 - 253, Cited 16 times.

DOI: 10.1016/j.aim.2015.03.001

[7] Harder A., Katzarkov L.

Perverse sheaves of categories and some applications

(2019) *Advances in Mathematics*, 352, pp. 1155 - 1205, Cited 2 times.

DOI: 10.1016/j.aim.2019.05.024

[8] Iliev A., Katzarkov L., Przyjalkowski V.

Double solids, categories and non-rationality

(2014) *Proceedings of the Edinburgh Mathematical Society*, 57 (1), pp. 145 - 173, Cited 12 times.

DOI: 10.1017/S0013091513000898

[9] Auroux D., Katzarkov L.

A degree doubling formula for braid monodromies and Lefschetz pencils

(2008) *Pure and Applied Mathematics Quarterly*, 4 (2 PART 1), pp. 237 - 318, Cited 6 times.

DOI: 10.4310/pamq.2008.v4.n2.a2

[10] Katzarkov L., Lupercio E., Meersseman L., Verjovsky A.

Quantum (non-commutative) toric geometry: Foundations

(2021) *Advances in Mathematics*, 391, art. no. 107945, Cited 4 times.

DOI: 10.1016/j.aim.2021.107945

[11] Favero D., Iliev A., Katzarkov L.

On the Griffiths groups of Fano manifolds of Calabi-Yau Hodge type

(2014) *Pure and Applied Mathematics Quarterly*, 10 (1), pp. 1 - 55, Cited 5 times.

DOI: 10.4310/PAMQ.2014.v10.n1.a1

[12] Akhmedov A., Katzarkov L.

Symplectic surgeries along certain singularities and new Lefschetz fibrations

(2020) *Advances in Mathematics*, 360, art. no. 106920, Cited 2 times.

DOI: 10.1016/j.aim.2019.106920

[13] Ballard M., Deliu D., Favero D., Isik M.U., Katzarkov L.

On the derived categories of degree d hypersurface fibrations

(2018) *Mathematische Annalen*, 371 (1-2), pp. 337 - 370, Cited 9 times.

DOI: 10.1007/s00208-017-1613-4

[14] Katzarkov L., Pantev T., Tschinkel Y., Zarhin Y.

Editorial Material

(2011) *Central European Journal of Mathematics*, 9 (5), pp. 935, Cited 0 times.

DOI: 10.2478/s11533-011-0062-7

[15] Itenberg I., Katzarkov L., Mikhalkin G., Zharkov I.

Tropical Homology

(2019) *Mathematische Annalen*, 374 (1-2), pp. 963 - 1006, Cited 20 times.

DOI: 10.1007/s00208-018-1685-9

[16] Katzarkov L., Soriani L.

Homological Mirror Symmetry, coisotropic branes and $P=W$

(2018) *European Journal of Mathematics*, 4 (3), pp. 1141 - 1160, Cited 0 times.

DOI: 10.1007/s40879-018-0273-6

[17] Ballard M., Favero D., Katzarkov L.

A category of kernels for equivariant factorizations, II: Further implications

(2014) *Journal des Mathématiques Pures et Appliquées*, 102 (4), pp. 702 - 757, Cited 12 times.

DOI: 10.1016/j.matpur.2014.02.004

[18] Alexeev V., Katzarkov L.

On K-stability of reductive varieties

(2005) Geometric and Functional Analysis, 15 (2), pp. 297 - 310, Cited 17 times.

DOI: 10.1007/s00039-005-0507-x

[19] Garavuso R.S., Katzarkov L., Kreuzer M., Noll A.

Super Landau-Ginzburg mirrors and algebraic cycles

(2011) Journal of High Energy Physics, 2011 (3), art. no. 17, Cited 5 times.

DOI: 10.1007/JHEP03(2011)017

[20] Fan Y.-W., Filip S., Haiden F., Katzarkov L., Liu Y.

On pseudo-Anosov autoequivalences

(2021) Advances in Mathematics, 384, art. no. 107732, Cited 3 times.

DOI: 10.1016/j.aim.2021.107732

[21] Haiden F., Katzarkov L., Kontsevich M., Pandit P.

SEMISTABILITY, MODULAR LATTICES, AND ITERATED LOGARITHMS

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[22] Bogomolov F., Katzarkov L.

Complex projective surfaces and infinite groups

(1998) Geometric and Functional Analysis, 8 (2), pp. 243 - 272, Cited 11 times.

DOI: 10.1007/s000390050055

[23] Auroux D., Donaldson S.K., Katzarkov L., Yotov M.

Fundamental groups of complements of plane curves and symplectic invariants

(2004) Topology, 43 (6), pp. 1285 - 1318, Cited 23 times.

DOI: 10.1016/j.top.2004.01.006

[24] Daskalopoulos G., Katzarkov L., Wentworth R.

Harmonic maps to Teichmüller space

(2000) Mathematical Research Letters, 7 (1), pp. 133 - 146, Cited 4 times.

DOI: 10.4310/MRL.2000.v7.n1.a12

[25] Katzarkov L., Kontsevich M., Pantev T.

Bogomolov-Tian-Todorov theorems for Landau-Ginzburg models

(2017) Journal of Differential Geometry, 105 (1), pp. 55 - 117, Cited 39 times.

DOI: 10.4310/jdg/1483655860

[26] Abouzaid M., Auroux D., Efimov A.I., Katzarkov L., Orlov D.

Homological mirror symmetry for punctured spheres

(2013) Journal of the American Mathematical Society, 26 (4), pp. 1051 - 1083, Cited 33 times.

DOI: 10.1090/S0894-0347-2013-00770-5

[27] Ballard M., Diemer C., Favero D., Katzarkov L., Kerr G.

The mori program and non-fano toric homological mirror symmetry

(2015) Transactions of the American Mathematical Society, 367 (12), pp. 8933 - 8974, Cited 5 times.

DOI: 10.1090/S0002-9947-2015-06541-6

[28] Katzarkov L.

Generalized homological mirror symmetry, superschemes and nonrationality

(2009) AIP Conference Proceedings, 1093, pp. 92 - 131, Cited 1 times.

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[29] De Oliveira B., Katzarkov L., Ramachandran M.

Deformations of large fundamental groups

(2002) Geometric and Functional Analysis, 12 (4), pp. 651 - 668, Cited 4 times.

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(2019) Advances in Mathematics, 352, pp. 27 - 55, Cited 6 times.

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The geometry of large fundamental groups

(1999) Journal of Mathematical Sciences, 94 (1), pp. 1100 - 1110, Cited 0 times.

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[33] Auroux D., Katzarkov L., Orlov D.

Mirror symmetry for weighted projective planes and their noncommutative deformations

(2008) Annals of Mathematics, 167 (3), pp. 867 - 943, Cited 93 times.

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Compactifications of spaces of Landau-Ginzburg models

(2013) Izvestiya Mathematics, 77 (3), pp. 487 - 508, Cited 3 times.

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[35] Katzarkov L.

STABILITY CONDITIONS AND SPECTRA

(2021) Mathematics and Education in Mathematics, 50, pp. 55 - 67, Cited 0 times.

[36] Dimitrov G., Katzarkov L.

Bridgeland stability conditions on the acyclic triangular quiver

(2016) Advances in Mathematics, 288, pp. 825 - 886, Cited 10 times.

DOI: 10.1016/j.aim.2015.10.014

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Orlov spectra as a filtered cohomology theory

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[39] Katzarkov L., Pandit P., Spaide T.

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(2021) Advances in Mathematics, 392, art. no. 108037, Cited 0 times.

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[40] Katzarkov L., Przyjalkowski V.

Generalized homological mirror symmetry and cubics

(2009) Proceedings of the Steklov Institute of Mathematics, 264 (1), pp. 87 - 95, Cited 6 times.

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[41] Eyssidieux P., Katzarkov L., Pantev T., Ramachandran M.

Linear Shafarevich conjecture

(2012) *Annals of Mathematics*, 176 (3), pp. 1545 - 1581, Cited 18 times.

DOI: 10.4007/annals.2012.176.3.4

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Interpretations of Spectra

(2023) *Springer Proceedings in Mathematics and Statistics*, 409, pp. 371 - 407, Cited 0 times.

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[43] Dimitrov G., Katzarkov L.

Noncommutative Counting Invariants and Curve Complexes

(2022) *International Mathematics Research Notices*, 2022 (17), pp. 13317 - 13395, Cited 0 times.

DOI: 10.1093/imrn/rnaa374

[44] Ballard M., Deliu D., Favero D., Isik M.U., Katzarkov L.

Homological projective duality via variation of geometric invariant theory quotients

(2017) *Journal of the European Mathematical Society*, 19 (4), pp. 1127 - 1158, Cited 8 times.

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Algebraic and topological aspects of the schematization functor

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Erratum: Super landau-ginzburg mirrors and algebraic cycles (*Journal of High Energy Physics* (2011) (017))

(2011) *Journal of High Energy Physics*, 2011 (8), art. no. 63, Cited 0 times.

DOI: 10.1007/JHEP08(2011)063

[47] Kapustin A., Katzarkov L., Orlov D., Yotov M.

Homological Mirror Symmetry for manifolds of general type

(2009) Central European Journal of Mathematics, 7 (4), pp. 571 - 605, Cited 28 times.

DOI: 10.2478/s11533-009-0056-x

[48] Auroux D., Donaldson S.K., Katzarkov L.

Luttinger surgery along Lagrangian tori and non-isotopy for singular symplectic plane curves

(2003) Mathematische Annalen, 326 (1), pp. 185 - 203, Cited 50 times.

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Harmonic Maps to Buildings and Singular Perturbation Theory

(2015) Communications in Mathematical Physics, 336 (2), pp. 853 - 903, Cited 19 times.

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Variation of geometric invariant theory quotients and derived categories

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Symplectomorphism group relations and degenerations of Landau-Ginzburg models

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Shifted symplectic structures on derived Quot-stacks I – Differential graded manifolds –

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Towards mirror symmetry for varieties of general type

(2017) *Advances in Mathematics*, 308, pp. 208 - 275, Cited 19 times.

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[54] Katzarkov L., Pantev T., Simpson C.

Density of monodromy actions on non-abelian cohomology

(2003) *Advances in Mathematics*, 179 (2), pp. 155 - 204, Cited 0 times.

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Constructing buildings and harmonic maps

(2017) *Progress in Mathematics*, 324, pp. 203 - 260, Cited 5 times.

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[56] Katzarkov L., Ramachandran M.

On the universal coverings of algebraic surfaces

(1998) *Annales Scientifiques de l'Ecole Normale Supérieure*, 31 (4), pp. 525 - 535, Cited 14 times.

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[57] Blanc A., Katzarkov L., Pandit P.

Generators in formal deformations of categories

(2018) *Compositio Mathematica*, 154 (10), pp. 2055 - 2089, Cited 2 times.

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Non-semistable exceptional objects in hereditary categories: Some remarks and conjectures

(2015) *Contemporary Mathematics*, 643, pp. 263 - 287, Cited 3 times.

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(1998) Journal of Algebraic Geometry, 7 (1), pp. 183 - 193, Cited 37 times.

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[63] Katzarkov L.

Generalized homological mirror symmetry and rationality questions

(2010) Progress in Mathematics, 282, pp. 163 - 208, Cited 4 times.

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Flat surfaces and stability structures

(2017) Publications Mathematiques de l'Institut des Hautes Etudes Scientifiques, 126 (1), pp. 247 - 318, Cited 68 times.

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Preface

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