CURRICULUM VITAE

Nikon Kurnosov

Contact information		
Address:	University College London	
	Department of Mathematics	
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Webpage:	https://iris.ucl.ac.uk/iris/browse/profile?upi=NKURN10 (My web-page at UCL);	
	http:/users.mccme.ru/nikon (My web-page on mccme.ru)	

Personal information

Born: December 15, 1989, Moscow, USSR **Citizenship:** Russia (Russian Federation)

Academic Positions

2020-present	Clifford Research Fellow, University College London		
2017-2020	Postdoctoral Research and Teaching Associate, University of Georgia		
2017-2022	22 Research fellow, Laboratory of Algebraic Geometry and its applications,		
	Department of mathematics, National Research University Higher School of		
	Economics		
2014-2017	Student-researcher, Laboratory of Algebraic Geometry and its applications,		
	National Research University Higher School of Economics		
2012-2012	Student-assistant, Institut für Anorganische Chemie, Universität Bonn		

Education

Higher School of Economics, Moscow, Russia

Ph.D. in Mathematics, 2017 Thesis: *Betti numbers and trianalytic subvarieties of hyperkähler manifolds* Research mentor: Misha Verbitsky

Lomonosov Moscow State University, Moscow, Russia

Ph.D.in Chemistry,2016 Research mentor: Yurii Kiselev

Lomonosov Moscow State University, Moscow, Russia

M.S. in Chemistry, 2013 Research mentor: Vladimir Dolzhenko

Independent University of Moscow, Moscow, Russia

M.S. in Mathematics, 2012 Thesis: *Flat connections on nilmanifolds* Research mentor: Misha Verbitsky

Lomonosov Moscow State University, Moscow, Russia

B.S. in Materials Sciences, 2011 Research mentor: Vladimir Dolzhenko

Research Interests

Algebraic geometry, complex geometry, hyperkähler geometry, Hodge theory, Calabi-Yau manifolds, automorphisms, symplectic varieties, Mirror symmetry

Papers

2017-2022	1. Kurnosov N., Verbitsky M., Deformations and BBF form on non-Kahler
	holomorphically symplectic manifolds, arXiv:1908.05258v1 [math.AG], Research in the
	Math.Sciences. (submitted, 2022)
	2. Kurnosov N., Yasinsky E., Automorphisms of hyperkahler manifolds and groups
	acting on CAT(0) spaces, arXiv:1810.09730v1 [math.AG], Springer Proceedings:
	Birational geometry, Kähler–Einstein metrics and degenerations, 2022.
	3. Bogomolov F., Kurnosov N., Kuznetsova A., Yasinsky E. Geometry and
	automorphisms of non-Kähler holomorphically symplectic manifolds,
	International Mathematics Research Notices, 2022; DOI: rnab043.
	4. Buonerba F., Bogomolov F., Kurnosov N. , Classifying VII ₀ surfaces with $b_2 = 0$
	via arithmetic groups, EJM (accepted)
	5. Kurnosov N. , Soldatenkov A., Verbitsky M., <i>Kuga-Satake construction and</i>
	cohomology of hyperkahler manifolds, Advances in Mathematics, 351 , pp. 275–295, 2019.
	6. Kurnosov N. , Boundness of b_2 for hyperkähler manifolds with vanishing odd-Betti
	numbers, Math. Rev., 1, 2020, pp. xx.
	7. Kurnosov N. , Constraints on Betti numbers of hyperkähler sixfolds with $b_2 = 23$,
	Proceedings of MiniPAGES, Warsaw, 2020
	1 Tocccurres of Winni AOLS, Warsaw, 2020
before 2017	8. Kurnosov N., Absolutely trianalytic tori in the generalized Kummer variety, Advances
201010 2017	in Mathematics, 298 , 6 , pp. 473-483, 2016, arXiv:1504.08010v2 [math.AG].
	9. Kurnosov N. , An inequality for Betti numbers of hyper-Kähler manifolds of
	dimension 6, Mathematical Notes., 99, 1, pp. 330-334, 2016.
	10. Kurnosov N. , Subvarieties and cohomology of hyperkähler manifolds, PhD Thesis,
	Steklov Institute, in Russian.
	11. Kurnosov N. , Synthesis of thienylpyrazoles, HGS, 16 , pp. 14-21, 2015.
	12. Dolzhenko V., Kiselev Yu., Kurnosov N. , Synthesis and Structure of
	<i>New Copper</i> (II) <i>Nitrate Complexes with 2,6-Bis(pyrazolyl)pyridine,</i>
	<i>Z. Anorg. Allg. Chem.</i> , 2014 , 640, (2), 347-351.
	13. Bezzubov S., Dolzhenko V., Kurnosov N. , Zharinova I., Kovalenko I.,
	Kiselev Yu., (2-Benzoyl-1-phenylethenolato-k2O, O') bis [2-(1-phenyl-1H-benzimidazol
	-2-yl) phenyl-kC1] iridium (III) dichloromethane disolvate, IUCrData, 2016 .

Preprints and submitted papers

1. **Kurnosov N.**, *Verbitsky component and Rozansky-Witten invariants in dimension six*, users.mccme.ru/nikon/rw-llv.pdf

2. **Kurnosov N.**, Verbitsky M., *Deformations of Lagrangian fibrations of holomorphically symplectic manifolds*, in preparation.

3. Bogomolov F., **Kurnosov N.**, *Lagrangian fibrations of IHS fourfolds*, arXiv:1810.11011v1 [math.AG], submitted to EJM.

Other Publications

LXXV Moscow Mathematical Olympiad (as one of authors), M.: MCCME, 2012, 72 pp. LXXVI Moscow Mathematical Olympiad (as one of authors), M.: MCCME, 2013, 78 pp. LXXIX Moscow Mathematical Olympiad (as one of authors), M.: MCCME, 2016, 65 pp. LXXXIV Moscow Mathematical Olympiad (as one of authors), M.: MCCME, 2021, 82 pp. Problems of Moscow Chemical Tournaments (as one of authors), M.: MCCME, 2015, 44 pp. Problems of Moscow Chemical Tournaments (as one of authors), M.: MCCME, 2016, 48 pp.

Teaching Experience

2020-2022	Clifford Research Fellow, UCL
	Riemannian Geometry (MATH0072)
	Hyperkähler geometry (LTCC course)
	Hodge Theory (LTCC course)
2017-2020	Postdoctoral Research Fellow and Teaching Assistant, UGA
	Calculus I (Math 2250)
	Calculus III (Math 2500)
2013-2016	Teaching Assistant, HSE
	Reading course on Torelli theorem
	Modular forms (BS & MS course)
	Lie groups and algebras (BS & MS course)
	Kähler geometry (Math in Moscow course)
	Calculus I (BS course)
	Algebra I (BS course)
	Algebra II (BS course)
2011-2016	Teaching Assistant & Instructor, IUM
	Measure Theory
	Algebra I
	Algebra II
	Algebra III
	Calculus I
2021	Stein manifolds

Lecture series and Expository Talks

2013 "Groups in F	nysics and Ch	hemistry", S	Summer School	"Contemp	orary I	Mathematics"
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- 2014 "Pelle's equation & Dirichlet unit Theorem", Summer School "Contemporary Mathematics"
 - 2016 "Cubic forms", Summer School "Contemporary Mathematics"
 - 2018 "Counting points on curves", Summer School "Contemporary Mathematics"
 - 2018 Symmetry groups in nature (Math Club, UGA)
 - 2018 Integer points & Volumes of polyhedra (Math Club, UGA)
 - 2019 Fractals (Math Club, UGA)

2021 "On Gauss' proof of the Main Theorem of Algebra", Summer School "Contemporary Mathematics"

2022 Lectures in geometry for Ukranian scholars

Academic Services

Professional Service

2022	Research mentor of MSci work, UCL
2020	Research mentor of 1st year project, LSGNT
2017-2019	Jury Member UGA Math Tournament
2017	Research mentor of Term work, HSE
2015-2016	Vice-chair of "High Probe" Olympiad, HSE
2013-2017	Jury Member of Moscow Mathematical Olympiad
2011-2017	Jury Member of Chemical Tournament
2012-2017	Jury Member of Tournament of Towns
2012-2016	Jury Member of Russian Geometry Olympiad
2015-present	Referee for: EJM – Adv. Math. – Compl.Geometry– Exp.Mathematics – Izvestiya

Math – Tetrahedron – Zentrablath math.

Conferences Organized

- 2023 Workshop on birational geometry and foliations, King's College London
- 2022 Workshop on complex geometry in honor of Fedor Bogomolov 75th birthday, UCL
- 2022 Co-organizer, Summer School "Algebra and Geometry" in Suzdal'
- 2016-2021 Lutsinofest
- 2017-2021 Co-organizer, Summer School "Algebra and Geometry" in Yaroslavl'
 - 2019 Workshop " Hyperkähler Saturday", Moscow
 - 2017 Hyperkähler Saturday, HSE
 - 2017 Co-organizer, Summer School on Fontanka: Geometry
 - 2017 Co-organizer, Spring school-conference Birational geometry in positive characteristic, HSE
 - 2016 Co-organizer, School-Conference Groups of birational automorphisms, HSE
 - 2016 Co-organizer, School "Introduction to birational geometry", HSE
 - 2016 Co-organizer, Spring School-Conference Surfaces in positive characteristic, HSE
 - 2015 Co-organizer, Workshop on Projective Algebraic Geometry (celebrating Fyodor Zak's 65th birthday), Moscow, Russia

Seminars Organized

2022-present	Co-organizer of UCL Geometry seminar
2020-2021	Co-organizer of Zoomerfest
2017-2020	Co-organizer of Algebraic Geometry seminar, UGA
2013-2017	Co-organizer of Complex structures on manifolds seminar, HSE
2015-2017	Co-organizer of Seminar of Laboratory of algebraic geometry, HSE

Languages

Russian, English, Deutsch (beginner)

Computer Skills

Expert with LATEX, HTML, programming in C, Pascal, Python and PARI/GP, graphic design in PS

Hobbies

Football, Art & Music (Dj-ing), Numismatics.

References

Misha Verbitsky (*doctoral advisor*), IMPA, verbit2000@gmail.com Dmitry Kaledin, Steklov Institute, kaledin@mi.ras.ru Fedor Bogomolov, Courant Institute, bogomolo@cims.nyu.edu Maurice Hendon (*teaching reference*), University of Georgia, mhendon@uga.edu Ben Bakker, University of Chicago, ben.bakker@gmail.com Giovanni Mongardi, University of Bologna, giovanni.mongardi@gmail.com Alessio Corti, Imperial College London, a.corti@imperial.ac.uk Valery Alexeev, University of Georgia, valery@uga.edu Yiannis Petridis (*teaching reference*), University College London , i.petridis@ucl.ac.uk