Curriculum Vitae
Ljudmila Kamenova

Business Address:
Stony Brook University
Department of Mathematics, Room 3-115
Stony Brook, NY 11794-3651, USA
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Degrees

B.S. and M.S., Sofia University, Spring 2001
Ph.D., Massachusetts Institute of Technology, Spring 2006

Positions

Postdoctoral Member, I.A.S. Princeton, September 2006 - August 2007
J. H. Simons Instructor, SUNY Stony Brook, September 2007 - August 2011
Simons Lecturer, SUNY Stony Brook, September 2011 - August 2016
Research Assistant Professor, Stony Brook University, September 2016 - August 2019
Research Associate Professor, Stony Brook University, August 2019 - present
Visiting Professor, SCGP, August 2020 - August 2022

Honors

Gold Medal in the 13th Balkan Mathematical Olympiad, 1996
Silver Medal in the 37th International Mathematical Olympiad, 1996
National Diploma for excellence in the fields of natural and mathematical sciences, 1996
Over 20 first prizes in national and regional mathematical competitions from 1990 to 1996
Second Prize in the National Mathematical Olympiad for University Students, 1997
First Prize in the 5th International Mathematics Competition for University Students, 1998
Norman Levinson award for MIT graduate student, September 2001 – May 2002
Mentor recognition award for the Siemens-Westinghouse Competition, 2003
Research Assistant Fellowships with Prof. Gang Tian, MIT 2003, 2005, 2006

Grants

NSF Grant DMS-0805594, "Classification of Abelian fibered hyper-Kahler fourfolds", 2008-2011.
AMS travel award for the 2017 Mathematical Congress of the Americas in Montreal, Canada.
Simons Foundation Collaboration Grant 522730, "Hyperkaehler manifolds and Lagrangian fibrations", 2017-2024.

Public Outreach and Training Activities

Organizer of "Women in Math" meetings at Stony Brook University since 2009.

Organizer of the Math Club on advanced problem solving for high school students on Long Island in Fall 2016.

Lecturer at SigmaCamp 2017, an overnight Science and Math camp for children of ages 12 to 16.

Mentor in the National Alliance for Doctoral Studies in the Mathematical Sciences since 2017.

Leader of a networking session at the 2018 Girl Power in STEM held at the SCGP, Stony Brook, NY.

Graduate Student Section interview for the Notices of the AMS, Vol. 65, No. 4 (2018) 416-417.

Co-organizer of Women in Mathematical Physics, September 2020, BIRS, Banff, Canada.

Mentored high school student Grant Yu (in 2019 and 2020).

Initial Faculty Mentor for the SBU graduate student Spencer Cattalani (2021-22).

Publications

1. Kamenova, L. K., *Complex structures on ruled surfaces*, Proc. of 30$^{\text{th}}$ Spring Conf. of UBM, Borovets, April 8–11, 2001, p. 163–168 (2001).

2. Kamenova, L., *Hyper-Kaehler Fibrations and Hilbert Schemes*, Ph.D. Thesis (2006).

3. Kamenova, L., *Hyper-Kähler fourfolds fibered by elliptic products*, Epijournal de Géométrie Algébrique, Vol. 2 (2018), Article Nr. 7.

4. Kamenova, L., Verbitsky, M., *Families of Lagrangian fibrations on hyperkaehler manifolds*, Adv. Math. 260 (2014) 401 - 413.

5. Kamenova, L., Lu, S., Verbitsky, M., *Kobayashi pseudometric on hyperkahler manifolds*, J. Lond. Math. Soc. 90 (2): (2014) 436 - 450.

6. R. Donagi, M. R. Douglas, L. Kamenova, M. Roček (editors), *String-Math 2013*, Proceedings of Symposia in Pure Mathematics, Vol. 88, AMS (2014).

7. Kamenova, L., *Finiteness of Lagrangian fibrations with fixed invariants*, C. R. Acad. Sci. Paris 354, Ser. I, No. 7 (2016) 707 - 711.

8. Bogomolov, F., Kamenova, L., Lu, S., Verbitsky, M., *The Kobayashi pseudometric and complex automorphisms*, "Geometry over nonclosed fields - Simons Symposium 2015", Springer-Verlag (2017) 1 - 17.

9. Kamenova, L., Verbitsky, M., *Algebraic non-hyperbolicity of hyperkähler manifolds with Picard rank greater than one*, NYJM 23 (2017) 489 - 495.

10. Kamenova, L., *Survey of finiteness results for hyperkähler manifolds*, Proceedings of miniPAGES, Banach Center Publ. 116 (2018) 77 - 86.

11. Kamenova, L., Verbitsky, M., *Pullbacks of hyperplane sections for Lagrangian fibrations are primitive*, Commun. Contemp. Math., 21 (2019) No. 8, 1850065, 7 pp.

12. Bogomolov, F., Kamenova, L., Verbitsky, M., *Algebraically hyperbolic manifolds have finite automorphism groups*, Commun. Contemp. Math., 22 (2020) No. 2, 1950003, 10 pp.

13. Kamenova, L., *Twistor spaces and compact manifolds admitting both Kähler and non-Kähler structures*, JGSP 46 (2017) 25 - 35.

14. Javanpeykar, A., Kamenova, L., *Demailly's notion of algebraic hyperbolicity: geometricity, boundedness, moduli of maps*, Math. Zeit. 296 (2020) 1645 - 1672.

15. Kamenova, L., Mongardi, G., Oblomkov, A., *Symplectic involutions of K3[n]-type and Kummer n-type manifolds*, Bull. London Math. Soc. 54 (2022) 894 - 909.
16. Kamenova, L., Verbitsky, M., *Holomorphic Lagrangian subvarieties in holomorphic symplectic manifolds with Lagrangian fibrations and special Kahler geometry*, European Journal of Mathematics 8 (2022) 514 - 522.
17. van Bommel, R., Javanpeykar, A., Kamenova, L., *Boundedness in families with applications to arithmetic hyperbolicity*, submitted, arXiv:1907.11225 [math.AG].
18. Kamenova, L., Vafa, C., *Kobayashi non-hyperbolicity of Calabi-Yau manifolds via mirror symmetry,* Commun. Math. Phys. 378(1) (2020) 329 - 334.
19. Kamenova, L., Verbitsky, M., *Roundness of the ample cone and existence of double Lagrangian fibrations on hyperkähler manifolds,* submitted, arXiv:2109.08088 [math.AG].
20. Kamenova, L., Lehn, C., *Non-hyperbolicity of holomorphic symplectic varieties,* submitted, arXiv:2212.11411 [math.AG].

Professional activities

Served as an evaluator for a postdoctoral fellowship application for the European Science Foundation in 2023.

Served on the SCGP evaluating committee in 2020/21.

Served on an NSF panel in 2020.

Referee for the journals "Journal of the AMS", "Algebraic Geometry", "International Mathematics Research Notices", "Mathematical Research Letters", GAFA, "Indiana U. Math. Journal", "J. Geom. Mech.", "Proceedings of the Bulgarian Academy of Sciences", "Experimental Mathematics", "Forum of Mathematics: Sigma", "European Journal of Mathematics", "Research in the Mathematical Sciences", "Journal of Algebraic Geometry", "Bulletin de la Société Mathématique de France", etc.

Reviewer for Zentralblatt MATH and for MathSciNet.

Editor for String-Math 2013 Conference Proceedings.

Contributed problems for the doctoral comprehensive exams at SBU from 2008 until present.

In charge of the Putnam selection and preparation process at SBU in Fall 2014, 2015, 2016, 2017, 2018, and 2019.

Part of the doctoral comprehensive exam preparation at SBU in Fall 2015, 2016, and 2017.

Chaired the January 2016 doctoral comprehensive exam and participated in its grading and organizing. Grader for the 2014, 2018, and 2022 August comps.

Mentor in the National Alliance for Doctoral Studies in the Mathematical Sciences since 2017.

Member of the Undergraduate Committee of the Department of Mathematics at Stony Brook University in 2016/17 and 2017/18, where we helped revise the SBU's undergraduate program and advanced track program.

Contributed to the QS University Rankings report on 2018.

Member of the Stony Brook University Colloquium and the Simons Lectures committee in 2018/19 and 2019/20.

Member of the Scientific Committee of the 5th Geometry-Topology Summer School, Istanbul Center for Mathematical Sciences, July 2020.

Conferences organized

AGNES, Stony Brook (October 2009)
 http://www.agneshome.org/fall09
FRG Workshop on Holomorphic symplectic varieties, Courant Institute, NYC (June 2011)
 http://www.math.nyu.edu/~tschinke/.nyu/FRG11.html
Hyper-Kahler Geometry Workshop, SCGP, Stony Brook (October 2012)
 http://scgp.stonybrook.edu/archives/3434
String-Math 2013, SCGP, Stony Brook (June 2013)
 http://scgp.stonybrook.edu/events/event-pages/string-math-2013
Quiver Varieties Program and Workshop, SCGP, Stony Brook (September - November, 2013)
 http://scgp.stonybrook.edu/archives/7134
29th Annual Geometry Festival, Stony Brook University (April 11 - 13, 2014)
 http://www.math.stonybrook.edu/geomfest14/
Workshop on derived categories and Chow groups of hyperkähler and Calabi-Yau varieties, SCGP, Stony Brook (September 2016)
 http://scgp.stonybrook.edu/archives/18379/
Geometry and Mathematical Physics Workshop dedicated to the memory of Vasil Tsanov, UACEG, Sofia, Bulgaria (July 2019)
 http://www.math.stonybrook.edu/~kamenova/tsanov_memorial_workshop/tsanov_memorial_wo
Women in Mathematical Physics, BIRS, Banff, Canada (September 2020)
 https://sites.google.com/site/womathphys/home/
Program: Hyperkahler quotients, singularities, and quivers, SCGP, Stony Brook (January - February, 2023)
 https://scgp.stonybrook.edu/archives/35449/
Workshop: Hyperkahler quotients, singularities, and quivers, SCGP, Stony Brook (January - February, 2023)
 https://scgp.stonybrook.edu/archives/35509/
Women in Mathematical Physics II, BIRS, Banff, Canada (August 2023)
 https://www.birs.ca/events/2023/5-day-workshops/23w5073

Talks

"The mirror conjecture and special Lagrangian fibrations"
 Differential Geometry Graduate Student Seminar
 Massachusetts Institute of Technology, 2001
"Desingularized moduli spaces of sheaves on a K3 surface"
 Differential Geometry Graduate Student Seminar
 Massachusetts Institute of Technology, 2002
"Counting rational curves on K3 surfaces"
 Algebraic Geometry Graduate Student Seminar
 Massachusetts Institute of Technology, 2002
"Finiteness results for hyperKähler manifolds"
 Differential Geometry Graduate Student Seminar
 Massachusetts Institute of Technology, 2002
"Vector bundles on K3 surfaces"
 Pure Math Graduate Seminar
 Massachusetts Institute of Technology, 2003

"Elliptic fibrations"
    Pure Math Graduate Seminar
    Massachusetts Institute of Technology, 2004
"On hyper-Kähler manifolds"
    IAS Members seminar
    IAS, Princeton, 2006
"A special class of hyper-Kähler manifolds"
    Geometry/Topology seminar
    SUNY Stony Brook, 2007
"Hyper-Kähler Fibrations"
    University of Hong Kong, 2009 and Hong Kong Unviersity of Science and Technology,
    2009
"On hyper-Kähler Fibrations"
    Geometry Seminar
    Sofia University, 2009
"Hyper-Kähler Fibrations"
    Algebraic Geometry Seminar
    UC San Diego, 2009
"Abelian Fibrations on Hyper-Kähler Varieties"
    Geometry/Topology seminar
    SUNY Stony Brook, 2010
"Finiteness for hyper-Kähler Abelian fibrations"
    Geometry and Mathematical Physics seminar
    Sofia University, 2010
"Finiteness for hyper-Kähler manifolds"
    Geometry/Topology seminar
    SUNY Stony Brook, 2011
"Four-dimensional hyper-Kähler Abelian fibrations"
    FRG Workshop on holomorphic symplectic varieties
    Courant Institute, 2011
"Recent developments in hyper-Kähler geometry"
    Geometric Structures in Mathematical Physics
    Golden Sands, Bulgaria, 2011
"Introduction to hyper-Kähler geometry"
    Learning seminar on the Hitchin system
    Stony Brook University, 2011
"Hyper-Kähler manifolds and Abelian fibrations"
    Weekly Seminar of Laboratory of Algebraic Geometry and its Applications
    HSE, Moscow 2012
"Largangian fibrations on hyperkähler manifolds and non-hyperbolicity"
    Valley Geometry Seminar
    University of Massachusetts, Amherst, 2013
"Hyperkähler fibrations and Kobayashi non-hyperbolicity"
    Geometry Meeting
    Sofia Technical University, 2013
"Kobayashi's conjecture for hyperkähler manifolds"
    Colloquium
    Rutgers-Newark, 2013

"Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
  Geometry/Topology seminar
  SUNY Stony Brook, 2013
"Kobayashi's conjecture for K3 surfaces and for hyperkähler manifolds"
  Geometry and Topology Seminar
  University of Waterloo, Canada, 2014
"Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
  Lille, France, 2014
"Kobayashi non-hyperbolicity and hyperkähler manifolds"
  University of Bonn
  Bonn, Germany, 2014
"Kobayashi pseudometric and non-hyperbolicity of hyperkähler manifolds"
  Seminar "Komplexe Geometrie"
  RUHR-Universität Bochum, Germany, 2014
"Hyperkähler manifolds and Kobayashi's conjecture"
  Institut de Mathématiques de Jussieu
  Paris, France, 2014
"Kobayashi's conjecture for K3 surfaces and for hyperkähler manifolds"
  International Conference "Mathematics Days in Sofia"
  Sofia, Bulgaria, 2014
"On Matsushita's conjecture"
  Complex manifolds, dynamics and birational geometry
  HSE, Moscow, 2014
"On the Kobayashi conjecture for hyperkähler manifolds"
  Hyperbolicity in algebraic geometry
  Ilhabela, Sao Paulo, Brazil, 2015
"On Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
  Workshop on Hyperkähler Geometry
  KIAS, Seoul, South Korea, 2015
"Kobayashi's pseudometric on hyperkähler manifolds and Kobayashi's conjecture"
  Distribution of Rational and Holomorphic Curves in Algebraic Varieties
  BIRS, Banff, Canada, 2015
"Vanishing of the Kobayashi Pseudometric on K3 Surfaces and Hyperkähler Manifolds"
  Simons Symposium "Geometry Over Non-closed Fields"
  Rio Grande, Puerto Rico, 2015
"On a conjecture of Matsushita"
  Hyperkähler Saturday
  HSE, Moscow, 2015
"On Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
  II ELGA, June 2015
  Cabo Frio, RJ, Brazil
"On Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
  Newton Institute, August 2015
  Cambridge, UK
"On Kobayashi's pseudometric of compact complex manifolds"
  Université libre de Bruxelles, December 2015
  Brussels, Belgium

"On Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
    UCLA colloquium, January 2016
    Los Angeles, CA

"Complex automorphisms and the Kobayashi pseudometric on compact complex manifolds"
    Geometry/Topology Seminar, March 2016
    Stony Brook University, Stony Brook, NY

"Finiteness results for deformation types of hyperkähler manifolds"
    Conference: Varieties with trivial canonical bundles, June 2016
    Będlewo, Poland

"On Kobayashi's conjecture for K3 surfaces and hyperkaehler manifolds"
    CCNY colloquium, November 2016
    New York, NY

"Finiteness results for deformation types of hyperkähler manifolds"
    CIRGET seminar, January 2017
    UQAM, Montréal, Canada

"Hyperbolicity in hyperkähler geometry"
    ESI Program: Advances in Birational Geometry, May 2017
    Vienna, Austria

"Hyperbolicity in hyperkähler geometry"
    USTC seminar, June 2017
    Hefei, China

"Problem solving for undergraduate students"
    USTC public lecture, June 2017
    Hefei, China

"Hyperbolicity in hyperkähler geometry"
    Mathematical Congress of the Americas, July 2017
    Montréal, Canada

"Mathematics of Card Games"
    SigmaCamp, August 2017
    Silver Lake Conference Center, Sharon, CT

"Non-hyperbolicity of hyperkähler manifolds"
    Komplexe Analysis, August 2017
    Oberwolfach, Germany

"On dominability of hyperkähler manifolds"
    CIRGET seminar, September 2017
    UQAM, Montréal, Canada

"On Kobayashi's conjectures and algebraic non-hyperbolicity of hyperkähler manifolds"
    AGNES, October 2017
    Boston, MA

"Non-hyperbolicity of hyperkähler manifolds and Kobayashi's conjectures"
    International Workshop on Differential Geometry, January 2018
    University of Sydney, Australia

"Hyperkähler geometry"
    First and Second Year Student Seminar, April 2018
    Stony Brook University, Stony Brook, NY

"On dominability of hyperkähler manifolds"
    Courant Algebraic Geometry seminar, April 2018
    Courant, NYU, NY

"On Kobayashi's conjectures and Kobayashi quotients"
    Princeton Differential Geometry and Geometric Analysis Seminar, May 2018
    Princeton University, Princeton NJ
"Algebraic non-hyperbolicity of hyperkähler manifolds"
    Joint International AMS-CMS Meeting, June 2018
    Fudan University, Shanghai, China
"On Kobayashi's conjecture for K3 surfaces and hyperkähler manifolds"
    National Mathematics Colloquium, June 2018
    Bulgarian Academy of Sciences, Sofia, Bulgaria
"Finiteness results for hyperkähler manifolds"
    UGA Algebraic Geometry Seminar, October 2018
    University of Georgia, Athens, GA
"Putnam related problems and tips"
    SBU Math Club, October 2018
    Stony Brook University, Stony Brook, NY
"Finiteness results for hyperkähler manifolds"
    Geometry and Physics of Hitchin Systems Program, June 2019
    SCGP, Stony Brook, NY
"On dominability of hyperkähler manifolds"
    IMPA Differential Geometry Seminar, January 2020
    IMPA, Rio de Janeiro, Brazil
"Algebraic non-hyperbolicity of hyperkähler manifolds"
    UCSD Algebraic Geometry Seminar, February 2021
    UCSD, San Diego, CA (online)
"Algebraic non-hyperbolicity of hyperkähler manifolds"
    Seminar of Algebra and Logic, March 2021
    Department of Algebra and Logic, IMI/BAS, Sofia, Bulgaria (online)
"Non-hyperbolicity of hyperkähler manifolds and Kobayashi's conjectures"
    SCGP Weekly Meeting in Math, April 2021
    SCGP, Stony Brook, NY
"Hyperbolic geometry"
    Panorama of Geometry and Topology, April 2021
    undergraduate event hosted by University of Iowa, IA
"Non-hyperbolicity of hyperkähler manifolds and Kobayashi's conjectures"
    Differential Geometry Seminar, April 2021
    University of Iowa, IA
"Non-hyperbolicity of primitive symplectic varieties and Kobayashi's conjectures"
    Geometric and Arithmetic Frontiers of Orbifolds: a focused introductory workshop,
    May - June, 2022
    UQAM, Montreal, Canada
"Finiteness results for hyperkähler manifolds"
    ICMS, Sofia, June 2022
    ICMS, Bulgarian Academy of Sciences, Bulgaria

Conferences attended

30th Spring Conference of the Union of Bulgarian Mathematicians
    Borovets, Bulgaria
    April 2001

Introductory Workshop on Algebraic Stacks, Intersection Theory, and Non-Abelian Hodge
    Theory
    MSRI, Berkeley, CA
    January 2002

Learning Stacks and Computational Methods Through Problem-Solving
    UIUC, Champaign-Urbana, IL
    June 2002

Moduli, Lie Theory and Interactions with Physics
    Rome, Italy
    April 2003

Algebraic Geometry and Categories
    Nice, France
    June 2005

Mathematical Foundations of Homological Mirror Symmetry
    IAS, Princeton
    January 2007

Applications of Homological Mirror Symmetry
    IAS, Princeton
    March 2007

XX Escola de Algebra
    Rio de Janeiro, Brazil
    August 2008

24th Annual Geometry Festival
    Stony Brook
    April 2009

Clay Research Conference
    Harvard Science Center
    May 2009

Spaces of curves and their interaction with diophantine problems
    Columbia University
    June 2009

Co-organizer of Algebraic Geometry Northeastern Series Workshop
    Stony Brook University
    October 2009

AGNES Workshop
    UMass Amherst
    April 2010

Clay Math Conference 2010
    IHP, Paris
    June 2010

2010 Summer School: Arithmetic aspects of rational curves
  Institut Fourier, Grenoble
  June 2010

Complex Algebraic Geometry
  IHP, Paris
  June - July 2010

Simons Center for Geometry and Physics Inauguration Conference
  Stony Brook
  November 2010

Workshop on Extremal Kähler Metrics
  SCGP, Stony Brook
  March 2011

AGNES Workshop
  MIT
  April 2011

JDG Conference on Geometry and Topology
  Harvard
  April 2011

Moduli spaces and moduli stacks
  Columbia University
  May 2011

Geometric and Algebraic Structures in Mathematics
  Stony Brook University
  May-June 2011

Co-organizer of FRG Workshop on Holomorphic symplectic varieties
  Courant Institute
  June 2011

Summer School on Algebraic Geometry
  RIMS, Kyoto
  June 2011

MMP and extremal rays
  RIMS, Kyoto
  June 2011

A celebration of algebraic geometry
  Harvard
  August 2011

Geometric Structures in Mathematical Physics
  Golden Sands, Bulgaria
  September 2011

Moduli spaces and automorphic forms
    Luminy, France
    October 2011

AGNES Workshop
    Stony Brook University
    October 2011

AGNES Workshop
    University of Massachusetts, Amherst
    March 2012

String Theory for Mathematicians
    SCGP, Stony Brook
    May 2012

Algebra and Geometry
    HSE and Independent University of Moscow
    June 2012

2012 Summer Simons Workshop in Mathematics and Physics
    SCGP, Stony Brook
    August 2012

2012 Cycles Conference
    Stony Brook University
    October 2012

AGNES Fall 2012 Workshop
    Brown University, Providence, RI
    October 2012

Co-organizer of Hyper-Kahler Geometry Workshop
    SCGP, Stony Brook
    October - November 2012

Facets of Integrability
    SCGP, Stony Brook
    January 2013

A conference to describe the published scientific work of Jim Simons on the occasion of his
    75th birthday
    CUNY Graduate Center, NYC
    May 2013

Moduli Spaces and their Invariants in Mathematical Physics
    CRM, Montreal
    June 2013

Thematic Program on Rational Points, Rational Curves and Entire Holomorphic Curves on
    Algebraic Varieties
    CRM, Montreal
    June 2013

Co-organizer of String-Math 2013 Conference
    SCGP, Stony Brook
    June 2013

Geometry Meeting
    Sofia, Bulgaria
    July 2013

Foliation theory in algebraic geometry
    Simons Foundation, NYC
    September 2013

Euler Institute Program "Cohomology in Mathematics and Physics"
    St. Petersburg, Russia
    September 2013

Co-organizer of Quiver Varieties Fall 2013 Program
    SCGP, Stony Brook
    September - November 2013

Co-organizer of Quiver Varieties Workshop
    SCGP, Stony Brook
    October 2013

AGNES Workshop
    Boston College
    October 2013

Moduli spaces of irreducible symplectic varieties, cubics and Enriques surfaces
    Lille, France
    March 2014

29th Annual Geometry Festival
    Stony Brook University
    April 2014

AGNES Workshop
    Stony Brook University
    April 2014

A workshop on the Chow group of holomorphically symplectic manifolds
    HSE, Moscow
    May 2014

International Conference "Mathematics Days in Sofia"
    Sofia, Bulgaria
    July 2014

2014 Simons Summer Workshop in Math and Physics
    SCGP, Stony Brook
    July - August 2014

G2 Manifolds Program
    SCGP, Stony Brook
    August - October 2014

G2 Manifolds Workshop
    SCGP, Stony Brook
    September 2014

AGNES Workshop
    University of Pennsylvania, Philadelphia
    October 2014

Complex manifolds, dynamics and birational geometry
    HSE, Moscow
    November 2014

Wall Crossing, Quantum Integrable Systems, and TQFT
    SCGP, Stony Brook
    November 2014

Hyperbolicity in algebraic geometry
    Ilhabela, Sao Paulo, Brazil
    January 2015

Workshop on Hyperkähler Geometry
    KIAS, Seoul, South Korea
    March 2015

Distribution of Rational and Holomorphic Curves in Algebraic Varieties
    BIRS, Banff, Canada
    March 2015

Simons Symposium "Geometry Over Non-closed Fields"
    Rio Grande, Puerto Rico
    March 2015

Workshop on rationally connected varieties
    HSE, Moscow
    May 2015

II Latin American School of Algebraic Geometry and applications
    Cabo Frio, RJ, Brazil
    June 2015

Metric and Analytic Aspects of Moduli Spaces
    Newton Institute, Cambridge, UK
    July - August 2015

Collapsing Calabi-Yau manifolds
    SCGP, Stony Brook
    September 2015

Program on complex, p-adic, and logarithmic Hodge theory and their applications
    SCGP, Stony Brook
    March - April 2016

Varieties with trivial canonical bundles
    Będlewo, Poland
    June 2016

Conference on Differential Geometry
    UQAM, Montreal
    July 2016

Simons Summer Workshop
    SCGP, Stony Brook
    July 2016

Geometry at the ANU
    Canberra, Australia
    August 2016

Arithmetic Algebraic Geometry
    Courant, NYU, New York
    August - September 2016

Co-organizer of Derived categories and Chow groups of hyperkähler and Calabi-Yau varieties
    SCGP, Stony Brook
    September 2016

Hyper-Kähler Manifolds, Hodge Theory and Chow Groups
    Sanya, China
    December 2016

Advances in Birational Geometry Program
    ESI, Vienna, Austria
    May 2017

Homological mirror symmetry and higher genus invariants
    SCGP, Stony Brook
    May 2017

Mathematical Congress of the Americas
    Montreal, Canada
    July 2017

Simons Summer Workshop
    SCGP, Stony Brook
    July-August 2017

Hodge Theory, Moduli and Representation Theory
    SCGP, Stony Brook
    August 2017

Conference on Birational Geometry
   Simons Foundation, NY
   August 2017

Komplexe Analysis
   Oberwolfach, Germany
   August 2017

AGNES Workshop
   Northeastern University, Boston, MA
   October 2017

Geometry of Manifolds
   SCGP, Stony Brook, NY
   October 2017

International Workshop on Differential Geometry
   University of Sydney, Australia
   January 2018

AGNES Workshop
   Rutgers University, New Brunswick, NJ
   April 2018

Mathematics is a long conversation: a celebration of Barry Mazur
   Harvard University, Cambridge, MA
   June, 2018

Joint International AMS-CMS Meeting
   Fudan University, Shanghai, China
   June, 2018

Program on the Geometry and Physics of Hitchin Systems
   SCGP, Stony Brook, NY
   January-June 2019

Holomorphic Differentials in Mathematics and Physics
   SCGP, Stony Brook, NY
   February 2019

Challenges at the Interface of Hitchin Systems and String Theory
   SCGP, Stony Brook, NY
   March 2019

Graduate Summer School on the Mathematics and Physics of Hitchin Systems
   SCGP, Stony Brook, NY
   May 2019

Co-organizer of Geometry and Mathematical Physics Workshop dedicated to the memory
   of Vasil Tsanov
   UACEG, Sofia, Bulgaria
   July 2019

Simons Summer Workshop
SCGP, Stony Brook
July-August 2019

AGNES Workshop
Boston College, Boston, MA
September 2019

Varieties with Trivial Canonical Class (virtual meeting)
CIRM, Luminy, France
April 2020

Komplexe Analysis - Algebraicity and Transcendence (virtual meeting)
MFO, Oberwolfach, Germany
August 2020

Women in Mathematical Physics (virtual meeting)
BIRS, Banff, Canada
September 2020

AMS Sectional Meetings
meeting virtually, September and October 2020

Stability in mirror symmetry (virtual meeting)
AIM, San Jose, CA
December 2020

Panorama of Geometry and Topology (virtual meeting)
University of Iowa
April 2021

Simons Summer Workshop: Strings and Geometry
SCGP, Stony Brook, NY
July - August 2021

MPS Conference on Higher Dimensional Geometry
Simons Foundation, New York, NY
February 23 - 25, 2022

Deformation of Geometric Structures in Current Mathematics: A Celebration of the Works
of Masatake Kuranishi
CMSA, Harvard University, Cambridge, MA
May 9 - 12, 2022

Geometric and Arithmetic Frontiers of Orbifolds: a focused introductory workshop
UQAM, Montreal, Canada
May 30 - June 3, 2022

2022 Simons Summer Workshop
SCGP, Stony Brook, NY
July - August 2022

Higher Dimensional Geometry
    SCGP, Stony Brook, NY
    August 22 - 26, 2022

Birational Complexity of Algebraic Varieties
    SCGP, Stony Brook, NY
    December 12 - 16, 2022

Program: Hyperkahler quotients, singularities, and quivers
    SCGP, Stony Brook, NY
    January 2 - February 23, 2023

Workshop: Hyperkahler quotients, singularities, and quivers
    SCGP, Stony Brook, NY
    January 30 - February 3, 2023

Komplexe Analysis - Differential and Algebraic methods in Kähler spaces
    MFO, Oberwolfach, Germany
    April 9 - 14, 2023

Supergravity, Generalized Geometry and Ricci Flow
    SCGP, Stony Brook, NY
    April 17 - 21, 2023

Homological Mirror Symmetry
    SCGP, Stony Brook, NY
    April 25 - 28

Women in Mathematical Physics II
    BIRS, Banff, Canada
    August 13 - 18, 2023

Teaching experience

Recitation Instructor, "Linear Algebra and Analytic Geometry", "Advanced Algebra", and
    "Methods of Analysis"
    Sofia University, 1999, 2000, 2001
Mentor, Research Science Institute,
    Massachusetts Institute of Technology, Summer 2002
Recitation Instructor and Course Administrator, "Multivariable calculus" Math 18.02
    Massachusetts Institute of Technology, Spring 2004
Lecturer, "Linear Algebra" MAT 211
    SUNY Stony Brook, Fall 2007
Lecturer, "Functions" MAT 130
    SUNY Stony Brook, Spring 2008
Lecturer, "Mathematical Problems and Games" MAT 160
    SUNY Stony Brook, Spring 2008
Lecturer, "Calculus B" MAT 126
    SUNY Stony Brook, Fall 2008
Lecturer, "Algebra I" MAT 534
    SUNY Stony Brook, Fall 2008

Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2009

Lecturer, "Algebra III: Algebraic Geometry" MAT 536
    SUNY Stony Brook, Fall 2009

Lecturer, "Introduction to Calculus" MAT 123
    SUNY Stony Brook, Spring 2010

Lecturer, " Differential Geometry of Surfaces" MAT 362
    SUNY Stony Brook, Spring 2010

Lecturer, "Topics in Complex Analysis: K3 surfaces and hyper-Kähler manifolds" MAT 626
    SUNY Stony Brook, Fall 2010

Lecturer, "Introduction to Calculus" MAT 123
    SUNY Stony Brook, Spring 2011

Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2011

Lecturer, "Algebra I" MAT 534
    SUNY Stony Brook, Fall 2011

Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2012

Lecturer, "Geometric Structures" MAT 360
    SUNY Stony Brook, Spring 2012

Lecturer, "Complex Geometry" MAT 545
    SUNY Stony Brook, Fall 2012

Lecturer, "Number Theory" MAT 311
    SUNY Stony Brook, Spring 2013

Lecturer, " Differential Geometry of Surfaces" MAT 362
    SUNY Stony Brook, Spring 2013

Lecturer, "Complex Analysis II: Riemann Surfaces" MAT 543
    SUNY Stony Brook, Fall 2013

Lecturer, "Number Theory" MAT 311
    SUNY Stony Brook, Spring 2014

Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2014

Lecturer, "Problem Solving" MAT 260
    SUNY Stony Brook, Fall 2014

Course coordinator and Lecturer, "Introduction to Calculus" MAT 123
    SUNY Stony Brook, Fall 2014

Lecturer, "Introduction to Lie groups and Lie algebras" MAT 552
    SUNY Stony Brook, Spring 2015

Lecturer, "Problem Solving" MAT 260
    SUNY Stony Brook, Fall 2015

Lecturer, "Problem Seminar" MAT 590
    SUNY Stony Brook, Fall 2015

Lecturer, "Advanced Topics in Complex Analysis: K3 surfaces, hyperkähler manifolds and
    moduli spaces" MAT 670
    SUNY Stony Brook, Spring 2016

Lecturer, "Problem Solving" MAT 260
    SUNY Stony Brook, Fall 2016
Lecturer, "Problem Seminar" MAT 590
    SUNY Stony Brook, Fall 2016
Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2017
Lecturer, "Problem Seminar" MAT 590
    SUNY Stony Brook, Fall 2017
Lecturer, "History of Mathematics" MAT 336
    SUNY Stony Brook, Spring 2018
Lecturer, "Seminar in Mathematics: Vector Bundles on Manifolds" MAT 402
    SUNY Stony Brook, Spring 2018
Lecturer, "Algebra III" MAT 544
    SUNY Stony Brook, Fall 2018
Lecturer, "Topics in Algebraic Geometry: Elements of Hodge theory and hyperkähler geometry" MAT 614, SUNY Stony Brook, Fall 2019
Lecturer, "Foundations of Analysis" MAT 319
    SUNY Stony Brook, Spring 2020
Lecturer, "Complex Analysis I" MAT 536
    SUNY Stony Brook, Spring 2020
Lecturer, "Applied Real Analysis" MAT 341
    SUNY Stony Brook, Fall 2021
Lecturer, "Algebra II" MAT 535
    SUNY Stony Brook, Spring 2022
Lecturer, "Foundations of Analysis" MAT 319
    SUNY Stony Brook, Spring 2022
Lecturer, "Topics in Differential Geometry: K3 Surfaces and Hyperkähler Manifolds" MAT 644, SUNY Stony Brook, Fall 2022