

Curriculum Vitae

Yuri Tschinkel

Address

Courant Institute of Mathematical Sciences, NYU
251 Mercer str., New York, NY 10012

Personal

US and German citizen

Languages: English, German, Russian, French, some Japanese

Education

1992, Ph.D. in Mathematics, M.I.T., Cambridge, MA, 1991–92

1990, M.A. in Mathematics, with distinction, Moscow State University, 1985–90

Employment

Executive Vice President, Mathematics and Physical Sciences Division (MPS),
Simons Foundation, 2023–

Director, MPS, Simons Foundation, 2012–2023

Courant Institute, Chair, Department of Mathematics, 2007–2011

Courant Institute, Professor of Mathematics, 2005–

University of Göttingen, Professor, Gauss Chair of Pure Mathematics, 2003–2008

Princeton University, Visiting Associate Professor, 1999–2003

University of Illinois at Chicago, Associate Professor, 1999–2003

University of Illinois at Chicago, Assistant Professor, 1995–1999

Distinctions

Corresponding Member, Göttingen Academy of Sciences and Humanities, 2025–

Fellow, The World Academy of Sciences, 2025–

Foreign Member, Bulgarian Academy of Sciences, 2024–

Honorary degree and commencement speaker, University of Miami, 2023

Frontier of Science Award, International Congress of Basic Science, Beijing, 2023

Foreign Member, Academia Europaea, 2021–

Member, Leopoldina, German National Academy of Sciences, 2018–

Fellow, American Association for the Advancement of Science, 2014–

Fellow, American Mathematical Society, 2012–

Fellowships

Clay Foundation Fellowship, Princeton University, 2001–2002
EPSRC Grant K99015 (Fellowship at the Newton Institute, Cambridge), 1998
Leibniz Fellow of the EC, École Normale Supérieure Paris, 1995–96
Junior Fellow of the Harvard Society of Fellows, 1992–95

Selected Invited Lectures

Plenary lecture, International Congress of Basic Science, Beijing, 2025
Plenary lecture, International Congress of Basic Science, Beijing, 2024
Erich Kamke Colloquium, University of Tübingen, 2024
International Congress of Basic Science, Beijing, 2023
Walter Feit Memorial Lecture, Yale, 2022
Whittaker Lecture, Edinburgh, 2020
Ulam Colloquium, University of Florida, 2018
Distinguished Lectures, University of Utah, 2018
Pan African Congress of Mathematicians, Rabat, Morocco, 2017
Emmy Noether Lecture, Bar Ilan University, 2017
Sakurai Lecture, Ben Gurion University, 2017
Atkin Memorial Lecture, University of Illinois at Chicago, 2017
Mirimanoff Lecture, Les Diablerets, 2017
International Congress of Chinese Mathematicians, Beijing, 2016
CRM Distinguished Lecture, University of Ottawa, 2014
Erwin-Schrodinger-Institute 20th anniversary Conference, Vienna, 2013
European Science Open Forum, Torino, 2010
International Congress of Mathematicians, Section Algebraic Geometry, Madrid, 2006
Kempf Lectures, Johns Hopkins University, 2005
Wolfe Lecture, Rice University, 2005

Editorial positions

Algebraic Geometry, Managing Editor, 2013–
Research in the Mathematical Sciences, Editor-in-Chief, 2013–2026
Experimental Mathematics, Editor, 2007–
Progress in Mathematics, Birkhäuser, Editor, 2011–
Bulletin of the American Mathematical Society, Editor, 2005–2026
SpringerBriefs, Editor, 2011–
European Journal of Mathematics, Co-Editor-in-Chief,

Journal of Algebraic Combinatorics, Editor, 2019–
Pure and Applied Mathematics Quarterly, Editor, 2020–
Proceedings Simons Symposia, Editor, 2013–
Ser dica Mathematical Journal, Editor, 2023–
Proceedings of the Edinburgh Mathematical Society, Consulting Editor, 2021–

Visiting positions

2012, July. Bernoulli Center, Lausanne
2011–2012. Sabbatical at NYU Berlin
2006, May. MSRI, Berkeley
2004 and 2005, February-April. Institut for Advanced Study, Princeton
2001, May. Ecole Polytechnique, Paris
2000, August. Chinese University of Hong Kong
1998, June-August. MPI, Bonn
1998, March-April, June. Newton Institute, Cambridge, UK
1998, April-May. Jussieu, Paris
1998, January-March. IHES, Bures-sur-Yvette
1997, August. MPI, Bonn
1997, July. ENS, Paris
1997, May-June. ETH, Zürich
1995 and 1996, June-August. MPI, Bonn
1994, May-September. MPI, Bonn
1994, January. Waseda University, Tokyo
1992 and 1993, June-August. Tokyo University, Tokyo
1992, August. RIMS, Kyoto
1991, September, Geneva University, Geneva
1991, August. Stanford University
1991, January, June-July. MPI, Bonn
1990, October-December. M.I.T.
1990, July-September. Université de Montreal

Service

Local Organizing Committee, ICM, Philadelphia 2026
Board of Directors, IHES, 2024–
Mathematical and Physical Sciences Directorate Advisory Committee, NSF, 2022-2025
U.S. Delegation to the IMU General Assembly, Helsinki 2022

Prize Committee, Cantor Medal, DMV 2020
Program Committee, 2nd Mathematical Congress of the Americas, Montreal 2017
Organizer of a special semester on Birational geometry at ESI Vienna, 2017
Scientific Committee, 4th Workshop on Zeta Functions, Bielefeld, 2017
Advisory Board, International Center for Mathematical Sciences, Sofia, 2017–
Visiting Committee, École Normale Supérieure, Paris, 2016
Advisory Board, Hamilton Mathematics Institute, Dublin, 2016–
Steering Committee, DMA École Normale Supérieure, Paris, 2015–
Trustee, Simons Center for Geometry and Physics, 2014–
Scientific Advisory Board, Institute for Computational and Experimental Research in
Mathematics (ICERM), Brown, 2013–2016
Governance Board, Simons Institute for the Theory of Computing, Berkeley, 2012–
Management Board, [arXiv](#), 2012–2019
Scientific Advisory Board, [arXiv](#), 2012–2016
Program Committee, Joint International Meeting of the AMS and the Romanian Math
Society, Alba Iulia 2013
Scientific Council, Foundation Sciences Mathématiques de Paris, 2010–2015
External Review Committee, George Washington University Mathematics, 2009
Harvard Tenure Review Committee, 2009
Program Committee, European Science Open Forum, Torino 2010
Board of Friends of IHES, 2008–2012
Committee on Committees, American Mathematical Society, 2007–2009
Reviewer and panel member for NSF, NSA, Israel Science Foundation, Helmholtz Foun-
dation, German National Science Foundation, European Research Council, National
Research Council Canada, Dutch Research Council, Science Foundation Ireland

Publications

Books edited

1. “Rational points on algebraic varieties” (with E. Peyre), *Progress in Mathematics* **199**, Birkhäuser, (2001)
2. “Arithmetic of higher-dimensional algebraic varieties” (with B. Poonen), *Progress in Mathematics* **226**, Birkhäuser, (2003)
3. Mathematisches Institut, Seminars 2003/04, Universitätsverlag Göttingen, (2004)
4. “Geometric methods in algebra and number theory”, (with F. Bogomolov), *Progress in Mathematics* **235**, Birkhäuser, (2004)
5. Mathematisches Institut, Seminars 2004, Universitätsverlag Göttingen, (2004)
6. Mathematisches Institut, Seminars 2004/05, Universitätsverlag Göttingen, (2005)
7. Proceedings Gauss-Dirichlet conference (with W. Duke), Clay Mathematics Institute Proceedings series, AMS (2007)
8. “Algebraic groups”, Proceedings of a Summer school in Göttingen, Universitätsverlag Göttingen, (2007)
9. “Eisenstein series and applications”, (with W.T. Gan and S. Kudla), *Progress in Mathematics* **258**, Birkhäuser, (2008)
10. Mathematisches Institut, Trends in mathematics, Courant Colloquium Göttingen, (with R. Meyer and Th. Schick), Universitätsverlag Göttingen, (2008)
11. “Algebra, Geometry and Arithmetic - Manin Festschrift”, (with Y. Zarhin), *Progress in Mathematics*, **269**, **270**, Birkhäuser, (2009)
12. “Arithmetic geometry”, (with H. Darmon and B. Hassett), Clay Mathematics Institute Proceedings series, AMS (2009)
13. “Higher-dimensional geometry over finite fields”, (with D. Kaledin), Advanced Study Institute, IOS Press, (2008)

14. “Cohomological and geometric approaches to rationality problems”, (with F. Bogomolov), *Progress in Mathematics*, **282**, Birkhäuser, (2009)
15. “Birational geometry, rational curves, and arithmetic”, (with F. Bogomolov and B. Hassett), Springer Verlag, (2013)
16. “Rational points, rational curves and entire holomorphic curves on projective varieties”, (with C. Gasbarri, S.S.-Y. Lu, and M. Roth), *Contemporary Math.* **654**, AMS, (2015)
17. “Kontsevich Festschrift”, (with D. Auroux, L. Katzarkov, T. Pantev, and Y. Soibelman), *Progress in Mathematics*, **324**, Birkhäuser, (2017)
18. “Geometry over nonclosed fields - Simons Symposium 2015”, (with F. Bogomolov and B. Hassett), Springer Verlag, (2017)
19. Martin Kneser Collected Works, (with Ulf Rehmann), Springer Verlag, (2021)
20. “Manin Memorial”, Springer Verlag, (2024)

Film

- Executive producer of the documentary “Colors of Math” (60 min.), June 2012

Research papers

1. Rational points of bounded height on Fano varieties (with J. Franke, Yu. I. Manin), *Inventiones Math.* **95**, 421–435, (1989)
2. Rational points of bounded height on Del Pezzo surfaces, (with Yu. I. Manin), *Compositio Math.* **85(3)**, 315–332, (1993)
3. Rational points of bounded height on compactifications of anisotropic tori, (with V. Batyrev), *Intern. Math. Research Notices* **12**, 591–635, (1995)
4. Height zeta functions of toric varieties, (with V. Batyrev), Algebraic geometry, 5, (Manin’s Festschrift), *Journ. Math. Sci.* **82**, no. 1, 3220–3239, (1996)
5. Rational points on some Fano cubic bundles, (with V. Batyrev), *C. R. Acad. Sci. Paris* **323**, Ser. I, 41–46, (1996)
6. Height zeta functions of twisted products, (with M. Strauch), *Math. Res. Letters* **4**, 273–282, (1997)
7. Manin’s conjecture for toric varieties, (with V. Batyrev), *Journ. of Alg. Geom.* **7**, no. 1, 15–53, (1998)
8. Tamagawa numbers of polarized algebraic varieties, (with V. Batyrev), *Astérisque* **251**, 299–340, (1998)
9. Density of rational points on Enriques surfaces, (with F. Bogomolov), *Math. Res. Letters* **5**, 623–628, (1998)
10. Height zeta functions of toric bundles over flag varieties, (with M. Strauch), *Selecta Math. (N.S.)* **5**, no. 3, 325–396, (1999)
11. On the density of rational points on elliptic fibrations, (with F. Bogomolov), *Journ. Reine und Angew. Mathematik* **511**, 87–93, (1999)
12. Geometry of equivariant compactifications of \mathbf{G}_a^n , (with B. Hassett), *Intern. Math. Research Notices* **22**, 1211–1230, (1999)
13. Rational points on quartics, (with J. Harris), *Duke Math. Journ.* **104**, no. 3, 477–500, (2000)

14. Points of bounded height on equivariant compactifications of vector groups I, (with A. Chambert-Loir), *Compositio Math.* **124**(1), 65–93, (2000)
15. Points of bounded height on equivariant compactifications of vector groups II, (with A. Chambert-Loir), *Journ. of Number Theory* **85**, no. 2, 172–188, (2000)
16. Abelian fibrations and rational points on symmetric products, (with B. Hassett), *Intern. Journ. of Math.* **11**, no. 9, 1163–1176, (2000)
17. Lagrangian subvarieties of abelian fourfolds, (with F. Bogomolov), *Asian Journ. of Math.* **4**, no. 1, 19–36, (2000)
18. Tamagawa numbers of diagonal cubic surfaces, (with E. Peyre), *Math. Comp.* **70**, 367–387, (2001)
19. Torseurs arithmétiques et espaces fibres, (with A. Chambert-Loir), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 37–70, (2001)
20. Fonctions zêta des hauteurs des espaces fibrés, (with A. Chambert-Loir), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 71–116, (2001)
21. Density of integral points on algebraic varieties, (with B. Hassett), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 169–198, (2001)
22. Tamagawa numbers of diagonal cubic surfaces of higher rank, (with E. Peyre), “*Rational points on algebraic varieties*”, *Progress in Mathematics* **199**, 275–306, (2001)
23. Rational curves on holomorphic symplectic fourfolds, (with B. Hassett), *Geom. and Funct. Analysis* **11**, no. 6, 1201–1228, (2001)
24. On the distribution of points of bounded height on equivariant compactifications of vector groups, (with A. Chambert-Loir), *Inventiones Math.* **148**, no. 2, 421–452, (2002)
25. Commuting elements in Galois groups of function fields, (with F. Bogomolov), “*Motives, polylogarithms and Hodge theory*”, 75–120, International Press, (2002)
26. Rationality of moduli of elliptic fibrations with fixed monodromy, (with F. Bogomolov and T. Petrov), *Geom. and Funct. Analysis* **12**(6), 1105–1160, (2002)

27. On the effective cone of the moduli space of pointed rational curves, (with B. Hassett), *Topology and Geometry*, Contemporary Math. **314**, 83–96, (2002)
28. Unramified correspondences, (with F. Bogomolov), *Algebraic Number Theory and Algebraic Geometry*, Contemporary Math. **300**, 17–26, (2002)
29. Integral points on punctured abelian surfaces, (with A. Kresch), “*Algorithmic number theory*”, *Proceedings of ANTS V*, 198–204, LNCS **2369**, Springer, (2002)
30. Monodromy of elliptic surfaces, (with F. Bogomolov), “*Galois groups and fundamental groups*”, (L. Schneps ed.), MSRI Publications **41**, Cambridge Univ. Press, (2003)
31. Simple examples of symplectic four-manifolds with exotic properties, (with F. Bogomolov), *Acta Appl. Math.* **75**, no. 1-3, 25–28, (2003)
32. Integral points and effective cones of moduli spaces of stable maps, (with B. Hassett), *Duke Math. Journ.* **120**, no. 3, 577–599, (2003)
33. Universal torsors and Cox rings, (with B. Hassett), “*Arithmetic of higher-dimensional algebraic varieties*”, *Progress in Mathematics* **226**, 149–173, (2003)
34. Rational points on compactifications of semi-simple groups of rank 1, (with J. Shalika and R. Takloo-Bighash), “*Arithmetic of higher-dimensional algebraic varieties*”, *Progress in Mathematics* **226**, 205–233, (2003)
35. Rational points and automorphic forms, (with J. Shalika and R. Takloo-Bighash), “*Contributions to Automorphic Forms, Geometry, and Number Theory*”, (H. Hida, D. Ramakrishnan, F. Shahidi eds.), 733–742, Johns Hopkins University Press, (2004)
36. Height zeta functions of equivariant compactifications of the Heisenberg group, (with J. Shalika), “*Contributions to Automorphic Forms, Geometry, and Number Theory*”, (H. Hida, D. Ramakrishnan, F. Shahidi eds.), 743–771, Johns Hopkins University Press, (2004)
37. On the arithmetic of Del Pezzo surfaces of degree 2, (with A. Kresch), *Proc. Lond. Math. Soc.* (3) **89**, 545–569, (2004)
38. Special elliptic fibrations, (with F. Bogomolov), *Proceedings of the Fano Conference*, (A. Collino, A. Conte, M. Marchisio, eds.), 223–234, (2004)

39. Reconstruction of function fields, (with F. Bogomolov), *GAF* **18**, no. 2, 400–462, (2008)
40. Couniformization of curves over number fields, (with F. Bogomolov), “*Geometric methods in algebra and number theory*”, *Progress in Mathematics* **235**, 43–57, (2004)
41. Curves in abelian varieties over finite fields, (with F. Bogomolov), *Intern. Math. Research Notices* **4**, 233–238, (2005)
42. Rational curves and algebraic points on K3 surfaces, (with F. Bogomolov), *Amer. Journ. of Math.* **127**, no. 4, 825–835, (2005)
43. Weak approximation over function fields, (with B. Hassett), *Inventiones Math.* **163**, no. 1, 171–190, (2006)
44. Approximation at places of bad reduction for rationally connected varieties, (with B. Hassett), *Pure and Applied Math. Quarterly* **4**, no. 3, 1–24, (2008)
45. Potential density of rational points for K3 surfaces over function fields, (with B. Hassett), *Amer. Journ. of Math.* **130**, no. 5, 1263–1278, (2008)
46. Algebraic varieties over small fields, (with F. Bogomolov), *Proc. Special Semester on Diophantine Geometry, Pisa*, 53–71, (2007)
47. Universal torsors over Del Pezzo surfaces and rational points, (with U. Derenthal), “*Equidistribution in Number theory, An Introduction*”, (A. Granville, Z. Rudnick eds.), 169–196, NATO Science Series II, **237**, Springer, (2007)
48. Rational points on compactifications of semi-simple groups, (with J. Shalika and R. Takloo-Bighash), *Journ. of the AMS* **20**, 1135–1186, (2007)
49. Weak approximation for hypersurfaces of low degree, (with B. Hassett), *Proceedings Symp. Pure Math. AMS* **80** (2), 937–955, (2009)
50. Log Fano varieties over function fields of curves, (with B. Hassett), *Inventiones Math.* **171**, no. 1., 7–21, (2008)
51. Effectivity of Brauer-Manin obstructions, (with A. Kresch), *Advances in Math.* **218**, no. 1., 1–27, (2008)

52. Brauer-Manin obstructions for integral points, (with A. Kresch), *Bulletin LMS* **40**, no. 6, 995–1001, (2008)
53. Moving and ample cones of holomorphic symplectic fourfolds, (with B. Hassett), *GAF* **19**, no. 4, 1065–1080, (2009)
54. A Torelli theorem for curves over finite fields, (with F. Bogomolov and M. Korotiaev), *Pure and Applied Math Quarterly, Tate Festschrift*, **6**, no. 1, 245–294, (2010)
55. Flops on holomorphic symplectic fourfolds and determinantal cubic hypersurfaces, (with B. Hassett), *Journ. Inst. Math. Jussieu* **6**, no. 1, 125–153, (2010)
56. On a theorem of Tate, (with F. Bogomolov), *CEJM* **6**, no. 3, 343–350, (2008)
57. Unramified cohomology of finite groups of Lie type, (with F. Bogomolov and T. Petrov), “Rationality problems”, *Progress in Mathematics* **282**, 55–73, (2009)
58. Milnor K_2 and field homomorphisms, (with F. Bogomolov), *Surveys in Differential Geometry XIII*, 223–244, (2009)
59. Co-fibered products of algebraic curves, (with F. Bogomolov), *CEJM* **7**, no. 3, 382–386, (2009)
60. Igusa integrals and volume asymptotics in analytic and adelic geometry, (with A. Chambert-Loir), *Confluentes Mathematici* **2**, no. 3, 351–429, (2010)
61. Constructing rational curves on K3 surfaces, (with F. Bogomolov and B. Hassett), *Duke Math. Journ.* **157**, no. 3, 535–550, (2011)
62. Intersection numbers of extremal rays on holomorphic symplectic varieties, (with B. Hassett), *Asian Journ. of Math.* **14**, no. 3, 303–322, (2010)
63. Effectivity of Brauer-Manin obstructions on surfaces, (with A. Kresch), *Advances in Math.* **226**, 4131–4144, (2011)
64. Monodromy and rational curves on holomorphic symplectic varieties, (with B. Hassett), 9 pp., (2009)
65. Integral points of bounded height on partial equivariant compactifications of vector groups, (with A. Chambert-Loir), *Duke Math. Journ.* **161**, no. 15, 2799–2836, (2012)

66. Reconstruction of higher-dimensional function fields, (with F. Bogomolov), *Moscow Math. Journal* **11**, no. 2, 185–204, (2011)
67. Hodge theory and Lagrangian planes on generalized Kummer fourfolds, (with B. Hassett), *Moscow Math. Journ.* **13**, no. 1, 33–56, (2013)
68. Integral points of bounded height on toric varieties, (with A. Chambert-Loir), 28 pp., (2010)
69. Introduction to birational anabelian geometry, (with F. Bogomolov), in *Current Developments in Algebraic Geometry*, (L. Caporaso, J. McKernan, M. Mustata, M. Popa eds.), MSRI Publications **59**, Cambridge Univ. Press, 17–63, (2012)
70. Characterizing projective spaces on deformations of Hilbert schemes of K3 surfaces, (with D. Harvey and B. Hassett), *Comm. Pure and Applied Math.*, **65**, no. 2, 264–286, (2012)
71. Height zeta functions of equivariant compactifications of semi-direct products of algebraic groups, (with S. Tanimoto), *Contemporary Math.* **566**, 119–157, (2012)
72. Integral points of bounded height on compactifications of semi-simple groups, (with R. Takloo-Bighash), *Amer. Journ. of Math.* **135**, no. 5, 1433–1448, (2013)
73. Spaces of sections of quadric surface fibrations over curves, (with B. Hassett), *Contemporary Math.* **564**, 227–249, (2012)
74. Multiple mixing for adèle groups and rational points, (with A. Gorodnik, R. Takloo-Bighash), *Europ. Journ. of Math.* 1(3), 441–461, (2015)
75. Galois theory and projective geometry, (with F. Bogomolov), *Comm. Pure. and Applied Math.* **66**, no. 9, 1335–1359, (2013)
76. Effective computation of Picard groups and Brauer-Manin obstructions of degree two K3 surfaces over number fields, (with B. Hassett and A. Kresch), *Rendiconti del Circolo Matematico di Palermo* **62**, 137–151, (2013)
77. Embedding pointed curves in K3 surfaces, (with B. Hassett), *Math. Zeitschrift* **278**, no. 3-4, 927–953, (2014)

78. Quartic Del Pezzo surfaces over function fields of curves, (with B. Hassett), *CEJM* **12(3)**, 395–420, (2014)
79. Balanced line bundles and equivariant compactifications of homogeneous spaces, (with B. Hassett and S. Tanimoto), *Intern. Math. Research Notices* **2015**, 6375–6410, (2015)
80. Mori cones of holomorphic symplectic varieties of K3 type, (with A. Bayer and B. Hassett), *Ann. Sci. ENS (4)* **48**, no. 4, 941–950, (2015)
81. On the moduli space of degree 4 Del Pezzo surfaces, (with B. Hassett and A. Kresch), *Development of Moduli Theory (Mukai Festschrift)*, Advanced Studies in Pure Math. **69**, 349–386, (2016)
82. Universal spaces for unramified Galois cohomology, (with F. Bogomolov), *Brauer groups and obstruction problems: moduli spaces and arithmetic*, (A. Auel, B. Hassett, A. Várilly-Alvarado, and B. Viray eds.), Progress in Math. **320**, Birkhäuser, 57–86, (2016)
83. Height zeta functions of equivariant compactifications of unipotent groups, (with J. Shalika), *Comm. Pure and Applied Math.* **69**, no. 4, 693–733, (2016)
84. Variation of Neron-Severi ranks of reductions of K3 surfaces, (with E. Costa), *Exp. Math.* **23**, no. 4, 475–481, (2014)
85. Rational points on K3 surfaces and derived equivalence, (with B. Hassett), *Brauer groups and obstruction problems: moduli spaces and arithmetic*, (A. Auel, B. Hassett, A. Várilly-Alvarado, and B. Viray eds.), Progress in Math. **320**, Birkhäuser, 87–113, (2017)
86. Balanced line bundles on Fano varieties, (with B. Lehmann and S. Tanimoto), *Journ. Reine und Angew. Math.* **743**, 91–131, (2018)
87. Stable rationality and conic bundles, (with B. Hassett and A. Kresch), *Math. Annalen* **365(3)**, 1201–1217, (2016)
88. Extremal rays and automorphisms of holomorphic symplectic varieties, (with B. Hassett), *K3 surfaces and their moduli*, (G. Farkas and G. van der Geer, eds.), *Progress in Mathematics* **315**, 73–95, (2016)

89. On stable rationality of Fano threefolds and Del Pezzo fibrations, (with B. Hassett), *Journ. Reine und Angew. Math.* **751**, 275–287, (2019)
90. Stable rationality of quadric surface bundles over surfaces, (with B. Hassett and A. Pirutka), *Acta Mathematica* **220**, 341–365, (2018)
91. A very general quartic double fourfold is not stably rational, (with B. Hassett and A. Pirutka), *Algebraic Geometry* **6(1)**, 64–75, (2019)
92. Cubic fourfolds fibered in Del Pezzo surfaces of degree six, (with N. Addington, B. Hassett, and A. Varilly-Alvarado), *Amer. Journ. of Math.* **141**, no. 6, 1479–1500, (2019)
93. Torsion of elliptic curves and unlikely intersections, (with F. Bogomolov and H. Fu), in *Geometry and Physics: Volume I: A Festschrift in honour of Nigel Hitchin*, Oxford University Press, 19–38, (2018)
94. Intersections of three quadrics in \mathbf{P}^7 , (with B. Hassett and A. Pirutka), *Surveys in Differential Geometry* **22(1)**, 259–274, (2017)
95. Homomorphisms of multiplicative groups of fields preserving algebraic dependence, (with F. Bogomolov and M. Rovinsky), *Europ. Journ. of Math.* **5(3)**, 656–685, (2019)
96. Models of Brauer-Severi surface bundles, (with A. Kresch), *Moscow Math. Journal* **19**, no. 3, 549–595, (2019)
97. Specialization of birational types, (with M. Kontsevich), *Inventiones Math.* **217(2)**, 415–432, (2019)
98. Stable rationality of Brauer-Severi surface bundles, (with A. Kresch), *Manuscripta Math.* **161(1)**, 1–14, (2020)
99. Noether’s problem and descent, (with F. Bogomolov), *ICCM Notices* **6(2)**, 25–31, (2018)
100. Stable rationality in smooth families of threefolds, (with B. Hassett and A. Kresch), *Duke Math. J.* **172** no. 6, 1145–1172, (2023)
101. Involution surface bundles over surfaces, (with A. Kresch), *Math. Zeitschrift* **296**, no. 3-4, 1081–1100, (2020)

102. Brauer groups of involution surface bundles, (with A. Kresch), *Pure and Applied Math. Quarterly, Mumford Festschrift* **17**, no. 2, 649–669, (2021)
103. Models of triple covers, (with A. Kresch), *Mat. Zametki* **105(5)**, 798–800, (2019)
104. Equivariant birational geometry and modular symbols, (with M. Kontsevich and V. Pestun), *J. Eur. Math. Soc. (JEMS)* **25**, no. 1, 153–202, (2023)
105. Rationality of complete intersections of two quadrics, (with B. Hassett), *Ens. Math.* **67**, no. 1-2, 1–44, (2021)
106. Varieties of planes on intersections of three quadrics, (with B. Hassett), 21 pp., *Europ. Journ. of Math.* **7**, no. 2, 613–632, (2021)
107. Fibrations in sextic del Pezzo surfaces with mild singularities, (with A. Kresch), *Rend. Semin. Mat. Univ. Padova* **148**, 65–82, (2022)
108. Cycle class maps and birational invariants, (with B. Hassett), *Comm. Pure and Applied Math.* **74**, no. 12, 2675–2698, (2021)
109. Birational types of algebraic orbifolds, (with A. Kresch), *Mat. Sbornik* **212**, no. 3, 54–67, (2021)
110. Rationality of Fano threefolds of degree 18 over nonclosed fields, (with B. Hassett), *Rationality of Varieties, Proceedings Schiermonnikoog*, Progress in Mathematics **342**, 237–247, (2021)
111. Equivariant birational types and Burnside volume, (with A. Kresch), *Annali della Scuola Normale Superiore di Pisa*, (5) **23**, no. 2, 1013–1052, (2022)
112. Symbols and equivariant birational geometry in small dimensions, (with B. Hassett and A. Kresch), *Rationality of Varieties, Proceedings Schiermonnikoog*, Progress in Mathematics **342**, 201–236, (2021)
113. Arithmetic properties of equivariant birational types, (with A. Kresch), *Research in Number Theory* **7(2)**, (2021)
114. Rationality of even-dimensional intersections of two real quadrics, (with B. Hassett and J. Kollár), *Comm. Math. Helvetici* **97**, no. 1, 183–207, (2022)

115. Equivariant Burnside groups: structure and operations, (with A. Kresch), *Taiwanese J. Math.* **29(6)**, 1507–1529, (2025)
116. Equivariant geometry of odd-dimensional complete intersections of two quadrics, (with B. Hassett), *Pure Appl. Math. Q.* **18**, no. 4, 1555–1597, (2022)
117. Equivariant Burnside groups and representation theory, (with A. Kresch), *Selecta Math. (N.S.)* **28**, no. 4, (2022)
118. Equivariant Burnside groups and toric varieties, (with A. Kresch), *Rendiconti del Circolo Matematico di Palermo, (2)* **72**, no. 5, 3013–3039, (2023)
119. Combinatorial Burnside groups, (with Kaiqi Yang and Zhijia Zhang), *Res. Number Theory* **8**, no. 2, (2022)
120. Cohomology of finite subgroups of the plane Cremona group, (with A. Kresch), to appear in *Algebraic Geometry and Physics*, 17 pp., (2022)
121. Torsors and stable equivariant birational geometry, (with B. Hassett), *Nagoya Math. J.* **250**, 275–297, (2023)
122. Equivariant derived equivalence and rational points on K3 surfaces, (with B. Hassett), *Communications in Number Theory and Physics* **17**, no. 2, 293–312, (2023)
123. Burnside groups and orbifold invariants of birational maps, (with A. Kresch), *Perspectives on Four Decades of Algebraic Geometry, Collino Festschrift*, vol. 2, Progress in Mathematics **352**, 433–446, (2025)
124. Involutions on K3 surfaces and derived equivalence, (with B. Hassett), *Math. Zeitschrift*, **312**, no. 1, 21 pp., (2026)
125. Burnside rings and volume forms with logarithmic poles, (with A. Chambert-Loir and M. Kontsevich), to appear in *Pure and Applied Math. Quarterly*, 28 pp., (2023)
126. Equivariant birational geometry of linear actions, (with Kaiqi Yang and Zhijia Zhang), *EMS Surveys in Mathematical Sciences* **11**, 235–276, (2024)

127. Equivariant birational geometry of cubic fourfolds and derived categories, (with Chr. Böhning and H.-Chr. Graf von Bothmer, and an appendix by B. Hassett), *Advances in Math.* **469**, (2025)
128. Equivariant geometry of the Segre cubic and the Burkhardt quartic, (with I. Cheltsov and Zh. Zhang), *Selecta Math. (N.S.)*, **31**, no. 1, 36 pp., (2025)
129. Equivariant birational types and derived categories, (with Chr. Böhning and H.-Chr. Graf von Bothmer), *Mathematische Nachrichten*, **297**, no. 11, 4333–4355, (2024)
130. Birational geometry of Deligne-Mumford stacks, (with A. Kresch), to appear in *Annali della Scuola Normale Superiore di Pisa*, 64 pp., (2023)
131. Unramified Brauer groups of quotient spaces by finite groups, (with A. Kresch), *J. of Algebra* **664**, 75–100, (2025)
132. Equivariant geometry of singular cubic threefolds, (with I. Cheltsov and Zh. Zhang), *Forum of Mathematics, Sigma*, **13**, 63 pp., (2025)
133. Rationality of forms of $\overline{\mathcal{M}}_{0,n}$, (with B. Hassett and Zh. Zhang), *J. Lond. Math. Soc. (2)* **111**, no. 2, 33 pp., (2025)
134. Intermediate Jacobians and linearizability, (with T. Cieurca and S. Tanimoto), to appear in *Kyoto J. of Mathematics*, 35 pp., (2024)
135. Equivariant geometry of singular cubic threefolds, II, (with I. Cheltsov, L. Marquand, and Zh. Zhang), *J. of the Lond. Math. Soc. (2)* **112**, 51 pp., (2025)
136. Stable equivariant birationalities of cubic and degree 14 Fano threefolds, (with Zh. Zhang), to appear in *Algebraic Geometry and Physics*, 22 pp., (2024)
137. Equivariant geometry of low-dimensional quadrics, (with B. Hassett), *Taiwanese J. Math.* **29(6)**, 1381-1402, (2025)
138. Rationality of singular cubic threefolds over \mathbf{R} , (with I. Cheltsov and Zh. Zhang), to appear in *Advances in Math.*, 27 pp., (2024)
139. Equivariant unirationality of Fano threefolds, (with I. Cheltsov and Zh. Zhang), 30 pp., (2025)

140. Cohomological obstructions to equivariant unirationality, (with Zh. Zhang), 16 pp., (2025)
141. Equivariant geometry of cubic threefolds with non-isolated singularities, (with I. Cheltsov, L. Marquand, and Zh. Zhang), to appear in *Pure and Applied Math Quarterly*, 18 pp., (2025)
142. Equivariant unirationality of toric varieties, (with A. Kresch), 23 pp., (2025)
143. Conjugacy classes of linear actions in the plane Cremona group, (with I. Cheltsov and Zh. Zhang), 32 pp., (2025)
144. Homological stability and weak approximation, (with S. Tanimoto), 31 pp., (2025)
145. Equivariant unirationality of tori in small dimensions, (with Zh. Zhang), 28 pp., (2025)
146. Intermediate Jacobians and Burnside invariants, (with A. Kresch and S. Tanimoto), to appear in *J. of the Math. Society of Japan*, 15 pp., (2025)
147. Invariants in equivariant birational geometry, (with A. Kresch), 55 pp., (2026)

Surveys and technical reports

1. Rational points and heights, *Proceedings Stud. Conf., Novosibirsk, USSR*, 80-84, (1988)
2. Generalized Chatelet varieties, *Proceedings Conf. on Constructive Methods and Algorithms in Number Theory, Minsk, USSR*, 163, (1989)
3. Arithmetic of algebraic surfaces, Ph.D. Thesis, M.I.T., (1992)
4. Finite heights and rational points on surfaces, *Adv. in Number Theory (Kingston, ON, 1991)*, 319–329, Oxford Sci. Publ., Oxford Univ. Press, New York, (1993)
5. On rational points, *Proceedings Intern. Conf. Algebraic Geometry, Sendai*, 157-172, (1993)
6. Rational points on toric varieties, (with V. Batyrev), *Number theory (Halifax, NS, 1994)*, 39–48, CMS Conf. Proc., 15, AMS, Providence, RI, (1995)
7. Height zeta functions, *Proceedings Arbeitstagung Bonn*, (1997)
8. Lectures on height zeta functions of toric varieties, *Proceedings of the Summer School on Toric Varieties, Grenoble*, Seminaires et Congres **6**, 227-247, SMF, (2000)
9. Resolution of singularities, (with F. Bogomolov), Review of a book by H. Hauser et al., *Bulletin AMS*, **39**, 95–100, (2002)
10. Fujita’s program and rational points, “*Higher Dimensional Varieties and Rational Points*”, (K. J. Böröczky, J. Kollár, T. Szamuely eds.), *Bolyai Society Mathematical Studies* **12**, 283–310, Springer, (2003)
11. On curve correspondences, (with F. Bogomolov), *Proceedings of “Communications in Arithmetic Fundamental Groups and Galois Theory”*, *RIMS*, 157-166, (2002)
12. About the cover: On the distribution of primes - Gauss’ tables, *Bulletin AMS* **43**, 89–91, (2006)

13. Geometry over nonclosed fields, *International Congress of Mathematicians. Vol. II*, Eur. Math. Soc., Zürich, 637–651, (2006)
14. About the cover: Invariants, *Bulletin AMS*, **44**, 433–437, (2007)
15. The Felix Klein protocols, (with E. Chislenko), *Notices AMS*, **54** (8), 958–968, (2007)
16. Algebraic varieties with many rational points, *Arithmetic geometry*, Clay Math. Proc. **8**, 243–334, (2009)
17. Geometrie der Zahlen - zum 150. Geburtstag von Hermann Minkowski, *Mitteilungen der DMV*, **22** (4), 228–233, (2014)
18. Vladimir Voevodsky – work and destiny, (with M. Bickford and F. Bogomolov), *Eur. Math. Soc. Newsl.*, **106**, 30–31, (2017)
19. Potentially stably rational del Pezzo surfaces over nonclosed fields, (with K. Yang), in *Combinatorial and Additive Number Theory III*, ed. M. Nathanson, Springer, 227–233, (2020)
20. Rationality and specialization, *Afrika Matematika* **31**(1), 191–205, (2020)
21. Equivariant birational types, Oberwolfach reports, 3 pp., (2021)
22. Memorial article for Yuri Manin, (with F. Bogomolov, eds.), *Notices AMS* **70**, no. 11, 1831–1849, (2023)
23. Birational types, (with M. Kontsevich), Proceedings Beijing ICBS, 4 pp., (2023)
24. Equivariant birational types, Proceedings ZAG seminar, 3 pp., (2024)