CURRICULUM VITAE

CHRISTIAN BÖHNING

PERSONAL DETAILS

Full Name and Title: Dr. rer. nat. habil. Christian Böhning

Department: Mathematics

Title of current appointment: Associate Professor/Reader

General information

Date of birth:	September 27, 1978
Place of birth:	Rotenburg/Wümme, Germany
Citizenship:	German

Education

Habilitation	Mathematics, University of Göttingen, December 2009, thesis "The rationality problem in invariant theory"
Doctoral thesis (PhD)	Mathematics, summa cum laude, University of Bayreuth, July 2005; thesis "Derived categories of coherent sheaves on rational homogeneous manifolds", advisor Prof. Dr. Fabrizio Catanese
Diplom	Mathematics (physics as second subject), University of Göttingen, November 2001; thesis "Canonical surfaces in $\mathbb{P}^4$ and Gorenstein algebras in codimension 2", advisor Prof. Dr. Fabrizio Catanese
Abitur	Domgymnasium Verden, June 1997

Positions

August 2023 – now	Associate Professor (Reader) at the University of Warwick, Coventry, England
September 2015 – August 2023	Associate Professor at the University of Warwick, Coventry, England
October 2011–September 2015	Heisenberg fellow (senior research fellow) of the German Research Foundation (DFG)
April 2010 – September 2011	Acting Professor at the University of Hamburg
October 2005– March 2010	assistant (wissenschaftlicher Assistent) at the University of Göttingen
November 2001–September 2005	teaching fellow (wissenschaftlicher Mitarbeiter) at the University of Bayreuth

Academic mentors with special importance for scientific development

Prof. Dr. Fedor Bogomolov (Courant Institute of Mathematical Sciences, NYU, New York), Prof. Dr. Fabrizio Catanese (Bayreuth), Prof. Dr. Yuri Tschinkel (Courant Institute of Mathematical Sciences, NYU, New York)

Awards and prizes

2011	Preis des Stiftungsrates der Stiftung Universität Göttingen 2010 in der Kategorie "Herausragende Nachwuchspublikation" (prize of the University of Göttingen in the category "outstanding young researcher's publication")
1997	Bundessieger Bundeswettbewerb Mathematik (winner federal German math competition)
1996	winner of competition "Alte Sprachen-Antike Kultur" (German Liberal Arts/ ancient languages competition); reception into the Studienstiftung des deutschen Volkes
1995	participant of the program "Center for Talented Youth" of Johns Hopkins University, Franklin & Marshall College/Pennsylvania, through accomplishment in Bundeswettbewerb Mathematik

RESEARCH AND SCHOLARSHIP

Publications

Published and accepted articles:

- (joint Graf v. Bothmer, H.-Chr., Tschinkel, Y.), *Equivariant birational types and derived categories*, (2023), available at arXiv:2311.15881v1; accepted for publication in Mathematische Nachrichten

- (joint Graf v. Bothmer, H.-Chr., Buhr, Lukas), *Moduli spaces of 6×6 skew matrices of linear forms on $\mathbb{P}^4$ with a view towards intermediate Jacobians of cubic threefolds*, European J. Math. **10** article no. 19, (2024)

- (joint Bogomolov, F., Pirutka, A.), *On stable cohomology of central extensions of elementary abelian groups*, in: *Recent Developments in Algebraic Geometry: To Miles Reid for his 70th Birthday*, CUP (2022)

- (joint Graf v. Bothmer, H.-Chr., v. Garrel, M.) *Prelog Chow rings and degenerations*, Rend. Circ. Mat. Palermo, II. Ser (2022), `https://doi.org/10.1007/s12215-022-00750-x`

- (joint Graf v. Bothmer, H.-Chr., v. Garrel, M.), *Prelog Chow groups of self-products of degenerations of cubic threefolds*, European Journal of Mathematics **8**, 260–290 (2022), `https://doi.org/10.1007/s40879-021-00510-8`

- (joint Graf v. Bothmer, Pignatelli, R.), *A rigid, not infinitesimally rigid surface with K ample*, Boll. Unione Mat. Ital. **15**, 57–85 (2022), `https://doi.org/10.1007/s40574-021-00296-3`

- (joint Auel, A., Bigazzi, A., Graf v. Bothmer, H.-Chr.), *Unramified Brauer groups of conic bundle threefolds in characteristic two*, American Journal of Mathematics, Volume **143**, Number 5, (2021), 1601–1631

- (joint Auel, A., Bigazzi, A., Graf v. Bothmer, H.-Chr.), *Universal triviality of the Chow group of 0-cycles and the Brauer group*, International Mathematics Research Notices, Volume **2021**, Issue 4, (2021), 2479–2496, `https://doi.org/10.1093/imrn/rnz171`

- (joint Auel, A., Graf v. Bothmer, H.-Chr., Pirutka, A.), *Conic bundle fourfolds with nontrivial unramified Brauer group*, J. Algebraic Geom. **29** (2020), 285–327

- (joint Auel, A., Pirutka, A.), *Stable rationality of quadric and cubic surface bundle fourfolds*, European Journal of Mathematics (2018), Volume **4**, Issue 3, 732–760

- (joint Graf v. Bothmer, H.-Chr.), *Degenerations of Gushel-Mukai fourfolds, with a view towards irrationality proofs*, European Journal of Mathematics (2018), Volume **4**, Issue 3, 802–826

- (joint Graf v. Bothmer, H.-Chr.), *On stable rationality of some conic bundles and moduli spaces of Prym curves*, Commentarii Mathematici Helvetici, Volume **93**, Issue 1, (2018), 133–155

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.), *On the dynamical degrees of reflections on cubic fourfolds*, International Math. Research Notices, Volume **2018**, Issue 14, (2018), 4480–4512

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.), *Some properties of dynamical degrees with a view towards cubic fourfolds*, Research in the Mathematical Sciences **3**:23 (2016), DOI: 10.1186/s40687-016-0071-z

- (joint Bogomolov, F. & Graf v. Bothmer, H.-Chr.), *Birationally isotrivial fiber spaces*, European Journal of Mathematics, Volume **2**, Issue 1, (2016), 45–54

- (joint Graf v. Bothmer, H.-Chr., Katzarkov, L. & Sosna, P.), *Determinantal Barlow surfaces and phantom categories*, Journal of the European Math. Soc. **17**, Issue 7, (2015) 1569–1592

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.), *On the Jordan-Hölder property for geometric derived categories*, Advances in Mathematics, Volume **256** (2014), 479–492

- (joint Bogomolov, F.), *On uniformly rational varieties*, in: Topology, Geometry, Integrable Systems, and Mathematical Physics, Novikov's Seminar 2012–2014, American Mathematical Society Translations, Series 2, Volume **234**, AMS (2014), 33–48

- (joint Bogomolov, F.), *Stable cohomology of alternating groups*, Central European Journal of Mathematics (2014), Volume **12**, Issue 2, 212–228

- (joint Bogomolov, F.) *Isoclinism and stable cohomology of wreath products*, in "Birational geometry, rational curves, and arithmetic", Simons Symposia, Springer (2013), 57–77

- (joint Auel, A. & Graf v. Bothmer, H.-Chr.) *The transcendental lattice of the sextic Fermat surface*, Mathematical Research Letters, Volume **20** Number 6, (2013), 1017–1031

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.) *On the derived category of the classical Godeaux surface*, Advances in Mathematics Vol. **243** (2013), 203–231

- (joint Bogomolov, F. & Graf v. Bothmer, H.-Chr.) *Linear bounds for levels of stable rationality*, Central European Journal of Mathematics (2012), Volume **10**, Issue 2, pp 466–520

- (joint Graf v. Bothmer, H.-Chr.) *On the rationality of the moduli space of Lüroth quartics*, Mathematische Annalen, Volume **353**, Number 4 (2012), 1273–1281

- (Graf v. Bothmer, H.-Chr. & Casnati, G.) *Birational properties of some moduli spaces related to tetragonal curves of genus 7*, Int. Math. Res. Notices, Volume 2012, Issue 22, (2012) 5219–5245

- (joint Bogomolov, F. & Graf v. Bothmer, H.-Chr.) *Rationality of quotients by linear actions of affine groups*, Science of China Series A: August 2011 Vol. **54** No. 8, 1521–1532

- *Some recent progress on the rationality problem in invariant theory*, Oberwolfach Reports, Report No. 02/2010, DOI: 10.4171/OWR/2010/02, "Moduli Spaces in Algebraic Geometry"

- (joint Graf v. Bothmer, H.-Chr.) *A Clebsch-Gordan formula for* $\mathrm{SL}_3(\mathbb{C})$ *and applications to rationality*, Advances in Mathematics **224** (2010) 246–259

- (joint Graf v. Bothmer, H.-Chr.) *The rationality of the moduli spaces of plane curves of sufficiently large degree*, Invent. Math. **179** (2010), no. 1, 159–173

- (joint Graf v. Bothmer, H.-Chr. & Kröker, Jakob) *Rationality of moduli spaces of plane curves of small degree*, Experiment. Math. **18** (2009), no. 4, 499–508

- *The rationality of the moduli space of curves of genus* 3 *after P. Katsylo*, in: *Cohomological and Geometric Approaches to Rationality Problems: New Perspectives*, F. Bogomolov and Y. Tschinkel eds., Progress in Mathematics **282**, (2009)

- *Gorenstein algebras in codimension* 2 *and Koszul modules*, Communications in Algebra, Volume **36**, Issue 6 June 2008 , pages 2014 - 2022

- *Canonical surfaces in* $\mathbb{P}^4$ *with* $p_g = p_a = 5$ *and* $K^2 = 11$, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl. 18 (2007), no. 1, 39–57

- *Derived categories of coherent sheaves on rational homogeneous manifolds*, Doc. Math. **11** (2006), 261-331

- *L. Szpiro's conjecture on Gorenstein algebras in codimension 2*, Journal of Algebra **288**, no. 2 (2005), p. 545-555

- *Canonical surfaces in* $\mathbb{P}^4$ *and Gorenstein algebras in codimension* 2, Oberwolfach Reports, vol.1, no.1, report no. 9/2004 (2004), p. 443–445

Monographs:

- *The rationality problem in invariant theory*, monograph in preparation, approx. 200 pp., parts available at
  https://warwick.ac.uk/fac/sci/maths/people/staff/boehning/invariant_theory_book.pdf

Preprints and unpublished:

- (joint Graf v. Bothmer, H.-Chr., Tschinkel, Y., with an appendix by Brendan Hassett), *Equivariant birational geometry of cubic fourfolds and derived categories*, (2023), available at arXiv:2303.17678

- (joint Graf v. Bothmer, H.-Chr.), *Formats of* 6×6 *skew matrices of linear forms with vanishing Pfaffian*, (2022), available at arXiv:2210.02926

- (joint Graf v. Bothmer, H.-Chr., Buhr, Lukas), *Matrix factorizations and intermediate Jacobians of cubic threefolds*, (2021), available at arXiv:2112.10554v2

- (joint Bogomolov, F.), *Essential dimension, stable cohomological dimension, and stable cohomology of finite Heisenberg groups*, (2014), available at arXiv:1405:1394

Five most important articles:

- (joint Graf v. Bothmer, H.-Chr.) *The rationality of the moduli spaces of plane curves of sufficiently large degree*, Invent. Math. **179** (2010), no. 1, 159–173

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.) *On the derived category of the classical Godeaux surface*, Advances in Mathematics Vol. **243** (2013), 203–231

- (joint Graf v. Bothmer, H.-Chr. & Sosna, P.), *On the Jordan-Hölder property for geometric derived categories*, Advances in Mathematics, Volume **256** (2014), 479–492

- (joint Graf v. Bothmer, H.-Chr., Katzarkov, L. & Sosna, P.) *Determinantal Barlow surfaces and phantom categories*, Journal of the European Math. Soc. **17**, Issue 7, (2015) 1569–1592

- (joint Auel, A., Graf v. Bothmer, H.-Chr., Pirutka, A.), *Conic bundle fourfolds with nontrivial unramified Brauer group*, J. Algebraic Geom. **29** (2020), 285–327

TEACHING AND LEARNING

Teaching record

- Spring term 2024: *MA266: Multilinear Algebra* and *MA9N5: Topics in Algebra*, University of Warwick

- Autumn term 2022: *MA251 Algebra 1: Advanced Linear Algebra*, University of Warwick

- Spring term 2022: *MA3H5 Manifolds*, University of Warwick

- Spring term 2021: *MA4A5 Algebraic Geometry*, University of Warwick

- Autumn term 2020: *MA3H5 Manifolds*, University of Warwick

- Spring term 2020: *MA948 Applied Scheme Theory*, University of Warwick

- Autumn term 2019: Module *MA4A5 Algebraic Geometry*, University of Warwick

- Autumn term 2018: Modules *MA243 Geometry* and *MA4A5 Algebraic Geometry*, University of Warwick

- Autumn term 2017: Modules *MA243 Geometry* (jt. L. Heuberger) and *MA4A5 Algebraic Geometry*, University of Warwick

- Autumn term 2016: Modules *MA243 Geometry* (jt. Gavin Brown) and *MA4A5 Algebraic Geometry*, University of Warwick

- Autumn term 2015: Module *MA4A5 Algebraic Geometry* , University of Warwick

- Winter term 2013/2014: *Seminar on complex dynamical systems and birational automorphism groups*, Hamburg

- Spring 2013: *Lectures on transformation groups and invariant theory* at the Courant Institute of Mathematical Sciences, New York

- Winter term 2011/2012: Seminar *Semiorthogonal decompositions and birational geometry of varieties*, Hamburg

- Summer term 2011: Lecture *Algebraic geometry*, Hamburg; exercises *Mathematics for computer scientists*

- Winter term 2010/2011: Lecture *Complex surfaces*, Hamburg; exercises *Mathematics for physicists*

- Summer term 2010: Lecture *Complex geometry*, Hamburg; exercises *Mathematics for physicists*; seminar *Geometry and the imagination*

- Winter term 2009/2010: Lecture *Discrete mathematics for computer scientists*, Göttingen

- Summer term 2009: Lecture *Geometry and the imagination*, Göttingen

- Winter term 2008/2009: Assistant teacher for the lecture *Algebra* (Prof. I. Kersten), Göttingen

- Summer term 2008: Lecture *Introduction to algebraic geometry*, Göttingen

- Winter term 2007/2008: Assistant teacher for the lecture *Analytic geometry and linear algebra I* (Prof. H.-Chr. Graf von Bothmer), Göttingen

- Summer term 2007: Assistant teacher for the lecture *Brauer groups* (Prof. I. Kersten), Göttingen and the lecture *Harmonic analysis* (Prof. Y. Tschinkel), Göttingen

- Winter term 2006/2007: Lecture *Invariants of complex reductive groups and algebraic geometry*, Göttingen and assistant teacher for the lecture *Algebra* (Prof. I. Kersten), Göttingen

- Summer term 2006: Assistant teacher for the lecture *Algebraic curves and surfaces* (Prof. Y. Tschinkel), Göttingen

- Winter term 2005/2006: Assistant teacher for the lecture *Algebra* (Prof. U. Bunke), Göttingen

- Summer term 2004: Assistant teacher for the lecture *Algebraic Geometry* (Prof. F. Catanese), Bayreuth

- Summer term 2003: Assistant teacher for the lecture *Analysis II* (Dr. I. Bauer-Catanese), Bayreuth

- Winter term 2002/2003: Assistant teacher for the lecture *Analysis I* (Dr. I. Bauer-Catanese), Bayreuth

- Summer term 2002: Assistant teacher for the lecture *Mathematics for natural scientists II* (Dr. I. Bauer-Catanese), Bayreuth and the lecture *Mathematics for physicists IV* (Prof. M. Krämer), Bayreuth

- Winter term 2001/2002: Assistant teacher for the lecture *Mathematics for natural scientists I* (Dr. I. Bauer-Catanese), Bayreuth and the lecture *Mathematics for physicists III* (Prof. M. Krämer), Bayreuth

Students, examination of PhD theses, PDRAs

Master's students

- Jack Copsey (MMath, Warwick; thesis: A-infinity structures, 2015-2016)
- Howard Tai (MMath, Warwick; thesis: Chatelet's Theorem, 2015-2016)
- Conor Finnegan (MSc, Warwick; thesis: representations of the general linear group and Young tableaux combinatorics, 2015-2016)
- Matt Turner (MMath, Warwick; thesis: Classification of Krull valuations on 2-dimensional rational function fields and their geometric interpretations, 2017-2018)
- Edwin Hollands (MMath, Warwick; topic: Finite field methods in algebraic geometry, 2019-2020)
- Flora Poon (MMath, Warwick; topic: Uniformly rational varieties, 2019-2020)
- James Jones (MMath, topic: A full exceptional sequence in $D^b(Coh(\mathbb{P}^n))$, 2020-2021)
- Mainthan Suriyakumaran (MMath, topic: Derived categories, 2020-2021)
- Niclas Want (MMath, topic: Moduli spaces of triangles and other polygons, 2021-2022)
- Tom Edington (MMath, 2022- 2023, topic: Real algebraic curves and their topology)
- Ong Chen Ping (MMath, 2023- 2024 , topic: Classifying spaces of finite groups and applications)
- Adam Smith (MMath, 2023-2024, topic: finite subgroups of PGL_2 and equivariant geometry)

Jon Cheah (3rd year project; topic: Invariant Theory: The Symbolic Method and Geometry, 2020-2021)

PhD students
Alessandro Bigazzi (Warwick; autumn term 2016-summer 2020)

Main supervisor: David Hubbard (2021-)
First year: Arnaud Vilpert (2023-)
First year: Tommaso Faustini (2023-)
Co-Supervisor: Marc Truter (2022-)
Co-Supervisor: Peize Liu (2022-)
Co-Supervisor: Dan Marlowe (2021-)

PDRAs/PostDocs Daniele Turchetti (August 2021- August 2023)

Examination of PhD theses
Internal examiner

- Eduardo Dias (Warwick; advisor Miles Reid; thesis: Algebraic Covers, 2016)
- Enrico Fatighenti (Warwick; advisor Miles Reid; thesis: Hodge Theory in Grassmannians, 2017)
- Paolo Tripoli (Warwick; advisor Diane Maclagan; thesis: Chow Hypersurfaces and Realizability Problems in Tropical Geometry, 2017)
- Daniel Grech (Warwick; advisor Marco Schlichting; thesis: Milnor K-theory and automorphisms, 2018)
- Alice Cuzzucoli (Warwick; advisor Miles Reid; thesis: On the Classification of Orbifold Del Pezzo Surfaces, 2020)
- Shengxuan Liu (Warwick; advisor Chunyi Li ; thesis: Stability Condition on Calabi–Yau Threefolds that are Complete Intersections of Quadratic and Quartic Hypersurfaces, 2023)

External examiner

- Yitzhak Kornbluth (NYU; advisor: Fedor Bogomolov; thesis topic: Rationality properties of some generically free group quotients, 2015)
- Daniel Evans (Liverpool; advisor Aleksandr Pukhlikov; thesis: Birationally Rigid Complete Intersections, 2018)

- Georgios Moulantzikos (Sheffield; advisor Evgeny Shinder; thesis: Gassmann Equivalence and Decompositions of Jacobians, 2022)

Other

- Theresa Backsmann (Bachelor degree, Hamburg; thesis "Krümmungsinvarianten bezüglich verschiedener Transformationsgruppen in der Differentialgeometrie" (curvature invariants w.r.t. different transformation groups in differential geometry), 2011)

IMPACT, OUTREACH AND ENGAGEMENT
Scholarships, funding and grants

Funding

October/November 2023:	stay as visiting academic at CIMS and Simons Foundation New York fully funded by Simons Foundation
February/March 2023:	stay as visiting academic at CIMS and Simons Foundation New York fully funded by Simons Foundation
October 2020:	Successful application to EPSRC's New Horizons Call max. £200,000 for 24 months
2020 :	AIM Workshop (Equivariant Birational Geometry, 2020) (co-organiser: Asher Auel) funding for AIM workshop with ca. 30 participants (incl. air travel, accommodation, meals) at AIM facility San Jose, CA
October 2020:	Funded participation University Miami, IMSA (Semester on Hodge theory), Griffiths, Simpson, Voisin (org.)
2019:	Funded stay AIM (American Institute of Mathematics), AIM San Jose, Rationality problems in algebraic geometry
March/April 2016/2018/2019:	partially funded stays CIMS New York
October 2011 – September 2015 :	Heisenberg Grant BO 3699/1-1 of the German Research Foundation (DFG); positive interim review in June 2014, granting an extension by another two years starting from October 2014 (amounts granted for the first three years: 4553 Euro/month for 21 months in Germany, 5668 Euro/month for 12 months in the USA, 5296 Euro/month for 3 months in the UK, plus potential extra allowances on request; for the following two years: 4450 Euro/month for 16 months in Germany, 5722 Euro/month for 8 months in the USA)
1998-2001:	Scholarship of the Studienstiftung des deutschen Volkes

Selected conferences, invited talks and research stays

- Simons Symposium on Geometry Over Non-Closed Fields, Elmau, August 2024
- Research stay Simons Foundation and NYU, October/November 2023
- Research stay Simons Foundation and NYU, February/March 2023
- Invited speaker ICM Satellite conference "Classical Algebraic Geometry", Jerzy Weyman org. June 2022; talk
- Invited speaker at Conference in honor of the 75th birthday of Fedor Bogomolov, University College London, January 2022; talk
- Lecture series at University of Miami, conference on Hodge theory and rationality (online), October 2020
- ZAG (Zoom Algebraic Geometry) seminar talk, August 2020
- University of Manchester, November 2019; talk
- University of Liverpool, October 2019; talk
- Courant Institute of Mathematical Sciences, New York, March/April 2019; research stay
- Oberwolfach workshop, Subgroups of Cremona groups, Oberwolfach, July 2018; talk
- University of Essen, May 2018; talk
- Courant Institute of Mathematical Sciences, New York, March/April 2018; research stay
- Conference on Birational Geometry, Simons Foundation, New York City, August 2017; talk
- Edge Days: Birkar's boundedness and Cremona groups, University of Edinburgh, June 2017; talk
- University of Oxford, Clay workshop Algebraic Geometry Old and New, September 2016; talk
- University of Toulouse, New methods in birational geometry, June-July 2016
- University of Edinburgh, Edge Days, June 2016; talk
- University of Edinburgh, British Algebraic Geometry Conference, April 2016; talk
- Courant Institute of Mathematical Sciences, New York, March–April 2016; research stay
- University of Cardiff, February 2016; talk
- École Normale Supérieure, Paris, seminar "Variétés rationnelles", December 2015; talk
- Imperial College London, COW seminar November 2015; talk
- Courant Institute of Mathematical Sciences, February–May 2015; research stay and talks
- University of Liverpool, November 2014; talk
- Workshop "McKay Correspondence, Orbifolds and Quivers", University of Warwick, September 2014; talk
- Conference "Frontiers of Rationality", Spitzbergen July 2014; talk
- University of Nottingham, June 2014; talk
- Courant Institute of Mathematical Sciences, February-April 2014; research stay and talks
- Oxford University, February 2014; talk
- University of Marburg, February 2014; talk
- Algebraic Geometry and Moduli seminar, ETH Zürich, December 2013; talk
- Research seminar Algebraic Geometry Leibniz-Universität Hannover, November 2013; talk
- NoGAGS (Northern German Algebraic Geometry Seminar), Humboldt Universität Berlin, November 2013; talk
- Symposium on Mathematics Universität Basel, October 2013; talk
- Conference Classification of Algebraic Varieties and related topics, September 2013, Cetraro, Italy; talk
- Complex Algebraic Geometry, Oberwolfach Workshop, May 2013
- Workshop on matrix factorizations, ESI Vienna, May 2013
- Technische Universität Chemnitz, May 2013; talk
- Courant Institute of Mathematical Sciences, February-April 2013; research stay and talks

- Seminar Algebraische Geometrie, Universität Bayreuth, November 2012; talk
- School (and Workshop) on Invariant Theory and Projective Geometry, Trento, September 2012, talk
- Higher School of Economics, Laboratory of Algebraic Geometry, Moscow August 2012, research stay and talk
- Conference Birational Geometry and Derived Categories, Vienna August 2012, talk
- Courant Institute of Mathematical Sciences, March-May 2012, research stay and talk
- Johann Wolfgang Goethe-Universität Frankfurt, November 2011; talk
- Complex Algebraic Geometry, Oberwolfach Workshop, September/October 2011, talk
- DMV annual meeting Cologne, September 2011, talk in section "Algebraische Geometrie und Komplexe Analysis"
- Conferences Derived Categories in Algebraic Geometry & In Honor of F. Bogomolov, Moscow September 2011, research stay and talk
- Workshop Instantonen und Rationalität von Modulräumen, November/December 2010, Berlin, talk
- Conference Perspectives on Algebraic Varieties, Levico Terme, September 2010, talk
- University of Vienna, August 2010, research stay and talk
- Oberwolfach Workshop Moduli Spaces in Algebraic Geometry, January 2010, talk
- Scuola Normale Superiore, Centro Di Giorgi, Pisa, October 2009, research stay
- IHES, Paris, April 2009, research stay
- Courant Institute of Mathematical Sciences, NYU, New York, February 2008, research stay and talk

Involvement in organisation for conferences and workshops (selected):
- Workshop Birational geometry (Warwick, 2016)
- Summer School on Moduli Spaces in Algebraic Geometry and Physics (University of Hamburg 2013)
- Conference on Geometric Invariant Theory (Göttingen 2008)

Outreach
- Mathecamp Göttingen 2006: Weeklong lecture course (on elementary topology, knots and surfaces) for pupils of grades 10-13 of the German Gymnasium, University of Göttingen
- Warwick Maths Society talks on multiple occasions
- Undergraduate Open Day "Mathematics Beautiful and Useful" talks on multiple occasions
- currently reviving and organising the public lectures in the Mathematics Department

COLLEGIALITY, LEADERSHIP, MANAGEMENT

Administrative and management duties (selected):
- Postgraduate Admissions Tutor in Pure Math. (2021- now)
- Member of WZL Selection panel (2021/2022)
- Member of the departmental curriculum review Algebra working group (2020/2021)
- Mentor to Chunyi Li (Warwick Zeeman Lecturer), (2020- now)
- Liaison with the Department of Economics at Warwick (2019-now)
- EPSRC 3CinG Programme Grant Steering committee (2018)
- Organiser of the Warwick Algebraic Geometry Seminar (2015-now)

Member of hiring committees on three occasions during 2005-2010 (Göttingen)

Refereeing (selected)
 Inventiones Mathematicae
 Duke Mathematical Journal
 Algebraic Geometry (Foundation Compositio Mathematica)
 Mathematische Annalen
 Compositio Mathematica
 Journal of Algebraic Geometry
 Crelle's Journal
 Central European Journal of Mathematics
 Manuscripta Mathematica
 Mathematische Nachrichten

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