

Birthdate: November 21, 1977
Birthplace: Husum, Germany
Citizenship: German

Research interests Algebraic and Arithmetic Geometry, Number Theory

Education

PhD Mathematics with distinction, University of Hannover, June 2006;
thesis “Hecke eigenforms and the arithmetic of singular K3 surfaces“
advisor Prof. Dr. Klaus Hulek

Diplom Mathematics & Physics, University of Hannover, July 2003;
diploma thesis: “The modularity of rigid Calabi-Yau threefolds“ (German)

Abitur Hermann-Tast-Schule, Husum, 1997

Positions

since 3/2013 Professor für Algebraische Geometrie, Leibniz Universität Hannover

7/2009 – 3/2013 Juniorprofessor at Leibniz Universität Hannover

9/2008 – 6/2009 Postdoc at the Mathematical Institute, University of Copenhagen

9/2006 – 8/2008 Postdoc at the Department of Mathematics, Harvard University

10/2003 – 8/2006 Teaching fellow, Mathematical Institute, Universität Hannover

Awards and Prizes

2010 Niedersächsischer Wissenschaftspreis

Funding and Grants

2011-2016 ERC Starting Grant for the project „Arithmetic of algebraic surfaces“

2012-2013 DAAD funding for exchange program with Univ. Milano (VIGONI)

2012 Funding from DFG, Foundation COMPOSITIO and MWK Niedersachsen
to support the conference „Algebraic and Complex Geometry“ at LUH

Selected Talks

1. Felix Klein Kolloquium, Universität Leipzig, Juli 2014
2. Workshop „Geometry and Arithmetic of Surfaces“, LMU/TUM, München, March 2014
3. Kolloquium, Universität Osnabrück, February 2014
4. Conference „Algebraic & Arithmetic Geometry 2014“, Tokyo University, January 2014
5. Fields Institute, Toronto, November 2013
6. Conference „Algebraic & Arithmetic Geometry 2013“, Tokyo University, January 2013
7. Kolloquium, Universität Rostock, November 2012
8. Algebraic Geometry Seminar, Milano University, November 2012
9. Conference „Algebraic and Arithmetic Geometry“, Krakow, June 2012
10. KU Leuven, May 2012
11. Universität Zürich, April 2012
12. Institut für experimentelle Mathematik, Universität Duisburg-Essen, July 2011
13. „InterCity“-Number Theory Seminar, Rijksuniversiteit Groningen, December 2011
14. Universität Augsburg, December 2011
15. Goethe-Universität Frankfurt, November 2011
16. Konferenz “Moduli spaces and automorphic forms”, CIRM, Luminy, October 2011
17. Universität Ulm, July 2011
18. Ruprecht-Karls-Universität, Heidelberg, July 2011
19. Seminar Algebraic Geometry, MPI, Bonn, April 2011
20. Instytut Matematyki Uniwersytetu Jagiellońskiego, Krakow, Polen, March 2011
21. Oslo University, March 2011
22. Workshop “Lattices, Reflection groups & Algebraic Geometry”, Nagoya Univ., Nov 2010
23. TU Darmstadt, November 2010
24. Conference „Arithmetic of Algebraic surfaces“, Lorentz Center, Leiden, October 2010
25. Conference „Perspectives on Algebraic varieties“, Trento, September 2010
26. Dutch Mathematical Congress, Utrecht, April 2010
27. Workshop on „Algebraic Geometry in positive characteristic“, Tokyo, February 2010
28. Nagoya University, Nagoya, Japan, February 2010
29. NoGAGS, Freie Universität Berlin, Germany, November 2009
30. Kolloquium, Universität Hamburg, November 2009
31. Number Theory Seminar, Harvard University, Cambridge, MA, USA, September 2009
32. Workshop „K3, Enriques and special surfaces“, Rikkyo University, Tokyo, Sept. 2009
33. Algebraic Geometry Seminar, Tokyo University, September 2009
34. Heinrich-Heine-Universität, Düsseldorf, June 2009
35. AKLS Seminar on Modular Forms, Utrecht University, Netherlands, April 2009
36. Université Denis Diderot, Jussieu, Paris, January 2009
37. Workshop „Arithmetic of K3 surfaces“, BIRS, Banff, December 2008
38. Conference „Algebraic Geometry in East Asia“, KIAS, Seoul, November 2008
39. Conference „Algebraic Geometry in Positive Characteristics and Related Topics“, Nagoya University, Nagoya, Japan, November 2008
40. Hiroshima University, Hiroshima, Japan, October 2008
41. Humboldt-Universität Berlin, Germany, October 2008
42. Albert-Ludwigs-Universität, Freiburg, Germany, September 2008
43. Algebraic Geometry Seminar, MIT, Cambridge, MA, USA, November 2007
44. Brandeis University, Waltham, MA, USA, October 2007
45. University of Texas, Austin, TX, USA, September 2007
46. Conference „Birational Automorphisms of Compact Complex Manifolds and Dynamical Systems“, Nagoya University, Nagoya, Japan, August 2007
47. Massachusetts University, Amherst, MA, USA, March 2007
48. Boston University, February 2007
49. Rice University, Houston, TX, USA, November 2006
50. Algebraic Geometry Seminar, Harvard University, Cambridge, MA, USA, October 2006

Teaching

At Leibniz University Hannover:

Summer term 2014	Algebra II
Summer term 2013	Modular forms
Winter term 2012/13	Algebraic number theory
Summer term 2012	Seminar Cryptography
Winter term 2011/12	Seminar Elliptic curves
Summer term 2011	Algebraic topology Seminar Cryptography
Winter term 2010/11	Algebraic geometry
Summer term 2010	Algebraic surfaces
Winter term 2009/10	Algebraic geometry

At University of Copenhagen:

Spring 2009	Cryptography Algebraic geometry
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At Harvard University:

Spring term 2008	Graduate course on elliptic surfaces
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Activities organised

- Workshop „Arithmetic of elliptic surfaces“ at Hausdorff Institute Bonn (March 2010)
(with Cecília Salgado)
 - Workshop „Elliptic fibrations and K3 surfaces“ at Humboldt-Universität Berlin (July 2010)
(with Remke Kloosterman)
 - Workshop „Arithmetic and Geometry of Calabi-Yau Varieties“ at the Fields Institute Toronto
(August 2011; with Doran, Kondo, Laza, Lewis, Yui)
 - Workshop on Singularities and Monodromy at Leibniz Universität Hannover
(October 2011; with A. Frühbis-Krüger, M. Lönne)
 - Workshop „Algebraic Surfaces“ at Leibniz Universität Hannover (February 2012)
 - Conference „Algebraic and Complex Geometry“ at Leibniz Universität Hannover
(September 2012; with A. Frühbis-Krüger, R. Kloosterman)
 - Conference „Nouvelles directions en arithmetique et geometrie des surfaces algebriques“
at CIRM in Luminy (March 11-15, 2013; with Bert van Geemen, A. Sarti, T. Shioda)
 - Major Thematic Program „Calabi-Yau Varieties: Arithmetic, Geometry and Physics“ at the
Fields Institute, Toronto (July - December, 2013) (with M. Gross, S. Gukov, R. Laza,
J. Walcher, S.-T. Yau, N. Yui)
 - Workshop „Algebraic Surfaces“ at Leibniz Universität Hannover (October 2013)
 - Algebraic Geometry Session at joint PTM-DMV meeting, Poznan
(with Cynk, Müller-Stach, Szemberg; September 2014)
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Memberships

DFG Research Training Group 1463 [Analysis, Geometry and String Theory](#)
Riemann Center for Mathematics and Physics

Scholarships and Stipends

9/2006 - 8/2008 Research stipend from Deutsche Forschungsgemeinschaft
for a two year-stay at Harvard University, Cambridge, MA, USA

1/2006 - 5/2006 Grant from the European MCRTN network
“Arithmetic Algebraic Geometry“ for a five month-stay
at the Department of Mathematics of Milano University, Italy

3/1999 - 7/2003 Scholarship from Studienstiftung des deutschen Volkes

Students

PhD students Frithjof Schulze (since 10/2010)
Davide Veniani (since 03/2013)
Roberto Laface (since 09/2013)

Diploma student Renate Vistorin (Diplom August 2012)

Referee for thesis of Sonal Jain, Harvard University 2007
Titem Harrache, Jussieu 2009
Bas Heijne, Groningen 2011
Kai Arzdorf, Hannover 2012

Current Address

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Hannover, April 17, 2014