

UNIVERSITY OF MILAN

Public selection for recruiting No. 1 research fellow under art.24, paragraph 3.b, of Law No.240/2010 for competition sector 01/A2 - Geometry and Algebra, (scientific-disciplinary sector Mat/03 - Geometry) at the Department of Mathematics, (announcement published in Official Gazette No. 46 of June 11, 2021) - Competition code 4773

[Benjamin Schmidt]

CURRICULUM VITAE

PERSONAL DATA

SURNAME	SCHMIDT
NAME	BENJAMIN
DATE OF BIRTH	28 MAY, 1986

QUALIFICATIONS**DEGREE**

(Specify full degree name, University, date, etc.)

Master of Science in Mathematics, University of Bonn, September 12, 2011.

Bachelor of Science in Mathematics, University of Hannover, July 14, 2009.

DOCTORAL DEGREE OR EQUIVALENT QUALIFICATION EARNED IN ITALY OR ABROAD / MEDICAL SPECIALISATION DIPLOMA OR EQUIVALENT QUALIFICATION, FOR THE RELEVANT SECTORS, EARNED IN ITALY OR ABROAD

(Specify qualification full name, institution, date, etc.)

Ph.D. in Mathematics, The Ohio State University, May 8, 2016.

RESEARCH CONTRACTS, RESEARCH FELLOWSHIP CONTRACTS, POSTDOCTORAL SCHOLARSHIPS OR SIMILAR CONTRACTS

(Specify, for each contract, university/institution, starting and termination date, etc.)

Wissenschaftlicher Mitarbeiter (Postdoc Position), University of Hannover, September 1, 2019 and on-going.

R.H. Bing Fellow, The University of Texas at Austin, August 18, 2016 to May 31, 2019.

TEACHING ACTIVITIES AT ITALIAN OR FOREIGN UNIVERSITIES

(Specify academic year, university, degree course, number of hours etc.)

Summer 2021, University of Hannover, Analysis B, 4 hours per week.
 Winter 2020/2021, University of Hannover, Toric Varieties, 4 hours per week.
 Summer 2020, University of Hannover, Analysis II, 4 hours per week.
 Winter 2019/2020, University of Hannover, Analysis I, 4 hours per week.
 Spring 2019, The University of Texas at Austin, Bridgeland Stability Conditions, 3 hours per week.
 Fall 2018, The University of Texas at Austin, Applied Number Theory, 3 hours per week.
 Fall 2017, The University of Texas at Austin, Calculus I, 6 hours per week.
 Spring 2017, The University of Texas at Austin, Complex Analysis, 3 hours per week.
 Fall 2016, The University of Texas at Austin, Elementary Number Theory, 3 hours per week.
 Fall 2014, Calculus I, The Ohio State University, 4 hours per week.
 Spring 2014, Calculus I, The Ohio State University, 4 hours per week.
 Fall 2013, Calculus I, The Ohio State University, 4 hours per week.
 Summer 2009, University of Hannover, Probability Theory, 2 hours per week.

Winter 2008/2009, University of Hannover, Probability Theory, 2 hours per week.
 Summer 2008, University of Hannover, Analysis II, 2 hours per week.
 Summer 2008, University of Hannover, Linear Algebra II, 2 hours per week.
 Winter 2007/2008, University of Hannover, Analysis I, 2 hours per week.
 Winter 2007/2008, University of Hannover, Linear Algebra I, 2 hours per week.

SPEAKING AT NATIONAL AND INTERNATIONAL CONFERENCES AND CONVENTIONS

(Specify conference/convention title, date, etc.)

North German Algebraic Geometry Seminar, University of Hannover, January 30, 2020.
 School on Bridgeland Stability, University of Warwick, December 18, 2019.
 Workshop on Moduli Spaces of Sheaves and Bridgeland Stability, University of Illinois at Chicago, December 7, 2018.
 Texas Algebraic Geometry Seminar, Texas A&M University, November 3, 2018.
 Moduli Spaces in Algebraic Geometry and Applications, Satellite meeting of the International Congress of Mathematicians, Campinas. July 30, 2018.
 Edge Days, University of Edinburgh, June 29, 2017.
 BC-Northeastern Algebraic Geometry Conference, Northeastern University, September 12, 2015.
 Workshop on Algebraic Geometry, Università degli Studi di Milano, December 15, 2014.
 Midwest Algebraic Geometry Graduate Conference, University of Illinois at Chicago, February 21, 2014.
 AMS Sectional Meeting, Special Session on Geometry of Algebraic Varieties, The University of Akron, October 20, 2014.

NATIONAL AND INTERNATIONAL AWARDS AND ACCOLADES FOR RESEARCH ACTIVITY

(Specify award, date, issuing organisation, etc.)

AMS-Simons Travel Grant issued by the American Mathematical Society together with the Simons Foundation, 2018-2019.
 Presidential Fellowship issued by the Ohio State University, 2015-2016.

SCIENTIFIC PRODUCTION

SCIENTIFIC PUBLICATIONS

(For each publication, specify the following: authors' names, full title, publisher, date and place of publication, ISBN/ISSN/DOI or equivalent code)

1. Sung, Benjamin; Schmidt, Benjamin. Discriminants of stable rank two sheaves on some general type surfaces. Math. Res. Lett. Volume 28, no. 1, 245-270, 2021. doi:10.4310/MRL.2021.v28.n1.a10
2. Macrì, Emanuele; Schmidt, Benjamin. Stability and applications. Pure Appl. Math. Q. 17 (2021), no. 2, 671-702. doi:10.4310/PAMQ.2021.v17.n2.a5
3. Schmidt, Benjamin. Rank two sheaves with maximal third Chern character in three-dimensional projective space. Mat. Contemp. 47 (2020), 228-270. doi:10.21711/231766362020/rmc4710
4. Schmidt, Benjamin. Bridgeland stability on threefolds: some wall crossings. J. Algebraic Geom. 29 (2020), no. 2, 247-283. doi:10.1090/jag/752

5. Macrì, Emanuele; Schmidt, Benjamin. Derived categories and the genus of space curves. *Algebr. Geom.* 7 (2020), no. 2, 153-191. doi:10.14231/AG-2020-006
6. Martinez, Cristian; Schmidt, Benjamin. Bridgeland stability on blow ups and counterexamples. *Math. Z.* 292 (2019), no. 3-4, 1495-1510. doi:10.1007/s00209-018-2149-3
7. Gallardo, Patricio; Lozano Huerta, César; Schmidt, Benjamin. Families of elliptic curves in P^3 and Bridgeland stability. *Michigan Math. J.* 67 (2018), no. 4, 787-813. doi:10.1307/mmj/1538705132
8. Bernardara, Marcello; Macrì, Emanuele; Schmidt, Benjamin; Zhao, Xiaolei. Bridgeland stability conditions on Fano threefolds. *Épjournal Géom. Algébrique* 1 (2017), Art. 2, 24 pp. doi:10.46298/epiga.2017.volume1.2008
9. Macrì, Emanuele; Schmidt, Benjamin Lectures on Bridgeland stability. *Moduli of curves*, 139-211, *Lect. Notes Unione Mat. Ital.*, 21, Springer, Cham, 2017. ISBN 978-3-319-59486-6
10. Schmidt, Benjamin. Counterexample to the generalized Bogomolov-Gieseker inequality for threefolds. *Int. Math. Res. Not. IMRN* 2017, no. 8, 2562-2566. doi:10.1093/imrn/rnw122
11. Bolognese, Barbara; Huizenga, Jack; Lin, Yinbang; Riedl, Eric; Schmidt, Benjamin; Woolf, Matthew; Zhao, Xiaolei. Nef cones of Hilbert schemes of points on surfaces. *Algebra Number Theory* 10 (2016), no. 4, 907-930. doi:10.2140/ant.2016.10.907
12. Schmidt, Benjamin. A generalized Bogomolov-Gieseker inequality for the smooth quadric threefold. *Bull. Lond. Math. Soc.* 46 (2014), no. 5, 915-923. doi:10.1112/blms/bdu048

Date

July 6, 2021

Place

Hannover